

Threatened and Endangered Animal Species: Survey Window and Responsibility			
Common Name	Scientific Name	Recommended Survey Window *	NEU Survey Responsibility
ARACHNIDS			
Spruce-fir moss spider	<i>Microhexura montivaga</i>	May – August	BSG
BIRDS			
Bald eagle	<i>Haliaeetus leucocephalus</i>	year round; November – March (optimal to observe birds and nests); February – May (optimal to observe active nesting)	PMG
Piping plover	<i>Charadrius melodus</i>	year round	PMG
Red-cockaded woodpecker	<i>Picoides borealis</i>	year round; November – early March (optimal)	PMG
Roseate tern	<i>Sterna dougallii</i>	June – August	PMG
Wood stork	<i>Mycteria americana</i>	June – September	PMG
FISH			
Cape Fear shiner	<i>Notropis mekistocholas</i>	April – June (tributaries); year round (large rivers)	BSG
Roanoke logperch	<i>Percina rex</i>	year round; April – June (optimal)	BSG
Shortnose sturgeon **	<i>Acipenser brevirostrum</i> **	not required; assume presence in appropriate waters	PMG consults USFWS, NCDMF, NMFS
Spotfin chub (= turquoise shiner)	<i>Erimonax monachus</i>	September – November (tributaries); year round (large rivers)	BSG
Waccamaw silverside	<i>Menidia extensa</i>	year round	BSG
INSECTS			
Saint Francis' satyr	<i>Neonympha mitchellii francisci</i>	May 5 – June 6 and July 26 – August 21	BSG
MAMMALS			
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	May – October; coldest days in coldest winter months (nest box surveys)	BSG
Gray bat	<i>Myotis grisescens</i>	May 15 – August 15 (summer); January 15 – February 15 (winter)	BSG
Indiana bat	<i>Myotis sodalis</i>	May 15 – August 15 (summer); January 15 – February 15 (winter)	BSG
Red wolf **	<i>Canis rufus</i> **	year round	PMG consults USFWS
Virginia big-eared bat	<i>Plecotus townsendii virginianus</i>	May 15 – August 15 (summer); January 15 – February 15 (winter)	BSG
West Indian manatee **	<i>Trichechus manatus</i> **	year round	PMG consults USFWS
MUSSELS			
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	year round	BSG
Carolina heelsplitter	<i>Lasmigona decorata</i>	year round	BSG
Cumberland bean	<i>Villosa trabalis</i>	year round	BSG
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	year round	BSG
James spiny mussel	<i>Pleurobema collina</i>	year round; April – June (optimal)	BSG
Littlewing pearly mussel	<i>Pegius fabula</i>	year round	BSG
Tan riffleshell	<i>Epioblasma florentina walkei</i>	year round	BSG
Tar River spiny mussel	<i>Elliptio steinstansana</i>	year round	BSG

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REPTILES			
American alligator **	<i>Alligator mississippiensis</i> **	year round (only warm days in winter)	PMG consults USFWS
Bog turtle **	<i>Glyptemys</i> (= <i>Clemmys</i>) <i>muhlenbergii</i> **	April 1 – October 1 (visual surveys); April 1 – June 15 (optimal for breeding/nesting); May 1 – June 30 (trapping surveys)	BSG (USFWS or NCWRC must request survey)
Green sea turtle **	<i>Chelonia mydas</i> **	April – August	PMG consults USFWS, NMFS
Hawksbill turtle **	<i>Eretmochelys imbricata imbricata</i> **	April – August	PMG consults USFWS, NMFS
Kemp's ridley sea turtle **	<i>Lepidochelys kempii</i> **	April – August	PMG consults USFWS, NMFS
Leatherback sea turtle **	<i>Dermochelys coriacea</i> **	April – August	PMG consults USFWS, NMFS
Loggerhead turtle **	<i>Caretta caretta</i> **	April – August	PMG consults USFWS, NMFS
SNAIL			
Noonday globe	<i>Mesodon clarki nantahala</i>	April – September (or prior to first fall frost); April – May (optimal)	BSG

* Surveys for protected animal species remain valid for two years, unless otherwise noted in the species' biological conclusion or agreed upon in consultation with the appropriate resource agency.

** NCDOT does not regularly perform surveys for these species. This may be because the species is listed as T(S/A) by USFWS or because of the degree of difficulty involved in the survey (in which case a records search is used and/or the appropriate resource agency (USFWS/NMFS) is contacted instead).

NEU = Natural Environment Unit; BSG = Biological Surveys Group; PMG = Project Management Group

Recommended Survey Windows Approved By:

NMFS on April 4, 2008; USFWS (Raleigh Field Office) on April 7, 2008; and USFWS (Asheville Field Office) on May 1, 2008.