

Federally Threatened and Endangered Animal Species (North Carolina): Survey Window and Responsibility

Common Name	Scientific Name	Recommended Survey Window*	Consulting Resource Agencies
AQUATIC MAMMALS			
Blue whale (E)**	<i>Balaenoptera musculus</i>	April - August	NMFS
Fin whale (E)**	<i>Balaenoptera physalus</i>	April - August	NMFS
Humpback whale (E)**	<i>Megaptera novaeangliae</i>	April - August	NMFS
North Atlantic right whale (E)**	<i>Eubalaena glacialis</i>	April - August	NMFS
Sei whale (E)**	<i>Balaenoptera borealis</i>	April - August	NMFS
Sperm whale (E)**	<i>Physeter macrocephalus</i>	April - August	NMFS
ARACHNIDS			
Spruce-fir moss spider (E)**	<i>Microhexura montivaga</i>	May - August	USFWS
BIRDS			
Bald eagle (BGPA)	<i>Haliaeetus leucocephalus</i>	Year round; November - March (optimal to observe birds and nest); February - May (optimal to observe active nesting)	USFWS
Piping plover (T&E)	<i>Charadrius melodus</i>	Year round	USFWS
Red-cockaded woodpecker (E)	<i>Picoides borealis</i>	Year round; November - early March (optimal)	USFWS
Roseate tern (E)	<i>Sterna dougallii</i>	June - August	USFWS
Rufa red knot (T)	<i>Calidris canutus rufa</i>	Year round	USFWS
Wood stork (T)	<i>Mycteria americana</i>	April 15 - July 15	USFWS
FISH/AMPHIBIAN			
Atlantic sturgeon (E)**	<i>Acipenser oxyrinchus oxyrinchus</i>	Not required; assume presence in appropriate waters	NMFS
Cape Fear shiner (E)	<i>Notropis mekistocholas</i>	April - June or periods of high flow (tributaries); Year round (large rivers)	USFWS
Carolina madtom (E)	<i>Noturus furiosus</i>	May - October	USFWS
Giant manta ray (T)	<i>Manta birostris</i>	No survey window established at this time, per NOAA Southeast Fisheries Science Center.	NMFS
Eastern Hellbender (PE)	<i>Cryptobranchus alleganiensis alleganiensis</i>	No survey window established at this time, per USFWS.	USFWS
Neuse River waterdog (T)	<i>Necturus lewisi</i>	November 15 - March 15	USFWS
Oceanic whitetip shark (T)	<i>Carcharhinus longimanus</i>	No survey window established at this time, per NOAA Southeast Fisheries Science Center.	NMFS
Roanoke logperch (E)	<i>Percina rex</i>	Year round; April - June (optimal)	USFWS
Shortnose sturgeon (E)**	<i>Acipenser brevirostrum</i>	Not required; assume presence in appropriate waters	NMFS
Spotfin chub (T)	<i>Cyprinella monacha</i>	September - November (tributaries); Year round (large rivers)	USFWS
Waccamaw silverside (T)	<i>Menidia extensa</i>	Year round	USFWS
INSECTS			
Rusty patched bumble bee (E) **	<i>Bombus affinis</i>	May - September	USFWS
Saint Francis' satyr (E)	<i>Neonympha mitchellii francisci</i>	May 5 - June 6 and July 26 - August 21	USFWS
MAMMALS			
Carolina northern flying squirrel (E)	<i>Glaucomys sabrinus</i>	May - October (trapping); coldest days in coldest winter months (nest box surveys)	USFWS
Gray bat (E), Indiana bat (E), Northern Long eared bat (E), Little brown bat (At risk), Tricolored bat (Proposed E) - Species covered in western Programmatic BO	<i>Myotis grisescens, Myotis sodalis, Myotis septentrionalis, Myotis lucifugus, Perimyotis subflavus</i>	West: Bridge surveys: May 1- October 1, concrete/metal, culvert surveys (3'Hx60'L min): hibernation range = Dec 15 - Feb 15, year round range = no culvert surveys *** East: Structure surveys: year round***	USFWS
Red wolf (E)**	<i>Canis rufus</i>	Year round	USFWS
Virginia big-eared bat (E)	<i>Corynorhinus townsendii virginianus</i>	Structure Checks: May 15 - August 15***	USFWS
West Indian manatee (E)**	<i>Trichechus manatus</i>	Year round	USFWS
MUSSELS			
Appalachian elktoe (E)	<i>Alasmidonta raveneliana</i>	March 1 - November 1 (optimal)	USFWS
Atlantic pigtoe (T)	<i>Fusconaia masoni</i>	March 1 - November 1 (optimal)	USFWS
Carolina heelsplitter (E)	<i>Lasmigona decorata</i>	March 1 - November 1 (optimal)	USFWS
Cumberland bean pearlymussel (E)	<i>Villosa trabalis</i>	March 1 - November 1 (optimal)	USFWS
Dwarf wedgemussel (E)	<i>Alasmidonta heterodon</i>	March 1 - November 1 (optimal)	USFWS
James spinymussel (E)	<i>Pleurobema collina</i>	March 1 - November 1 (optimal)	USFWS
Littlewing pearly mussel (E)	<i>Pegias fabula</i>	March 1 - November 1 (optimal)	USFWS
Cumberland moccasinshell (PT)	<i>Medionidus conradicus</i>	March 1 - November 1 (optimal)	USFWS
Tennessee pigtoe (PE)	<i>Pleuronaia barnesiana</i>	March 1 - November 1 (optimal)	USFWS
Tennessee clubshell (PE)	<i>Pleurobema oviforme</i>	March 1 - November 1 (optimal)	USFWS
Longsolid (T)	<i>Fusconaia subrotunda</i>	March 1 - November 1 (optimal)	USFWS
Tan riffleshell (E)**	<i>Epioblasma florentina walkeri walkeri</i>	March 1 - November 1 (optimal)	USFWS or NCWRC must request survey
Green floater (PT)	<i>Lasmigona subviridus</i>	March 1 - November 1 (optimal)	USFWS
Tar River spinymussel (E)	<i>Elliptio steinstansana</i>	March 1 - November 1 (optimal)	USFWS
Yellow lance (T)	<i>Elliptio lanceolata</i>	March 1 - November 1 (optimal)	USFWS
REPTILES			
American alligator T(S/A)**	<i>Alligator mississippiensis</i>	Year round (only warm days in winter)	USFWS
Bog turtle T(S/A)**	<i>Glyptemys mühlenbergii</i>	April 1 - October 1 (visual surveys)	USFWS or NCWRC must request survey
Green sea turtle (T)**	<i>Chelonia mydas</i>	April - August for beach surveys	USFWS and NMFS
Hawksbill sea turtle (E)**	<i>Eretmochelys imbricata</i>	April - August for beach surveys	USFWS and NMFS
Kemp's Ridley sea turtle (E)**	<i>Lepidochelys kempii</i>	April - August for beach surveys	USFWS and NMFS
Leatherback sea turtle (E)**	<i>Dermochelys coriacea</i>	April - August for beach surveys	USFWS and NMFS
Loggerhead sea turtle (T)**	<i>Caretta caretta</i>	April - August for beach surveys	USFWS and NMFS
SNAILS			
Noonday globe snail (T)	<i>Petera clarki nantahala</i>	April - September (or prior to first fall frost); April - May (optimal)	USFWS
Magnificent ramshorn snail (E)	<i>Planorbella magnifica</i>	No survey window established at this time, per USFWS.	USFWS

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

\*\*NCDOT surveys are not regularly performed for these species. Species may be listed as T(S/A), or field surveys are too difficult or impractical (record searches and/or resource agency contact are used in lieu of field surveys).

\*\*\*Mist netting and/or acoustic bat surveys are dependent on results of bat structure checks or USFWS requirements. Mist Netting Surveys: Divisions 1-8: Coastal Plain<sup>†</sup>, April 15 - September 15; Piedmont<sup>†</sup>, May 1 - September 15; **Divisions 9-14,** June 1 - August 15. Acoustic Surveys: Divisions 9-14, May 15 - August 15. †for Coastal Plain and Piedmont delineation see attached map (per USFWS Raleigh Field Office)

E = Endangered; T = Threatened; BGPA = Bald and Golden Eagle Protection Act, USFWS = US Fish & Wildlife Service; NMFS = National Marine Fisheries Service; NCDMF = NC Division of Marine Fisheries; NCWRC = NC Wildlife Resource Commission

Recommended Survey Windows Approved By: USFWS (Raleigh Field Office) on August 8, 2019; and USFWS (Asheville Field Office) on April 2, 2025