

2015 Connecticut Wildlife Action Plan

APPENDIX 1a: SOURCES OF INFORMATION

This appendix lists the information sources that were reviewed during the development of this plan. Some of these sources are referenced at the end of each chapter. Sources include: published and unpublished data, reports from existing conservation programs, and correspondence. The sources are listed in alphabetical order.

TABLE 1: ELEMENT SPECIFIC DATA SOURCES CONSULTED (INCLUDING CONSERVATION AND MANAGEMENT PLANS/REPORTS, SPECIES-SPECIFIC SOURCES, HABITAT-SPECIFIC SOURCES, ETC.)

Title	Species or Faunal Group	Source or Reference
CONNECTICUT’S FISH AND WILDLIFE		
Rare and endangered species of Connecticut and their habitats	Multiple Species	CT DEP, State Geo. And Nat. Hist. Survey, Dowhan and Craig (1976)
The Audubon Society Field Guide to the Natural Places of the Northeast	Multiple Species	Kulik et al. (1984)
Amphibians and reptiles of Connecticut and adjacent regions	Multiple Species	Klemens (1993)
Thirteen of Connecticut’s most imperiled ecosystems	Multiple Species	CT DEP, State Geo. And Nat. Hist. Survey, Metzler and Wagner (1998)
Natural Diversity Data Base (NDDDB) maps	Multiple Species	CT DEEP (2014)
The North Atlantic coast ecoregional assessment	Multiple Species	TNC, Anderson et al. (2006)
Lower New England-Northern Piedmont Ecoregional Conservation Plan	Multiple Species	TNC, Barbour et al. (2003)
Connecticut wildlife: biodiversity, natural history, and conservation	Multiple Species	Hammerson (2004)
Long Island Sound Study- Long Island Sound Stewardship Initiative	Multiple Species	NY DEP, CT DEP, US EPA LISO (2004)
Inventory and assessment of Connecticut’s priority species	Multiple Species	CT DEEP Report to USFWS (2011)
MAMMALS		
Northern long-eared bat interim conference and planning guidance	Bats	USFWS (2014b)
Bat trapping data, hibernaculum survey data, and rabies data	Bats	The Wildlife Diversity Unit of Deep’s Bureau of Natural Resources Wildlife Division (1995-2014) (DEEP Wildlife Division, unpublished data)
Bat studies and conservation	Bats	Northeast Bat Working Group (NEBWG) http://www.nebwg.org/
Bats in Eastern Woodlands	Bats	Bat Conservation International (BCI) (2001)
North American Bat Conservation Partnership Strategic Plan	Bats	North American Bat Conservation Partnership (Tuttle 2004)
Frequent arousal from hibernation linked to severity of infection and mortality in bats with white-nose syndrome	Bats	TCI and NFWDC (2013), Reeder et al. (2012)
Laboratory and field testing of treatments of white nosed syndrome	Bats	TCI and NFWDC (2013), Reeder (2012)
White Nose Syndrome National Plan	Bats	USFWS 2011

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Indiana Bat (<i>Myotis sodalis</i>) Draft Recovery Plan	Bats: Indiana bat	USFWS (2007)
Northern long-eared bat	Bats: Northern long-eared bat	USFWS (2014a)
The Forests of Connecticut	Furbearing mammals	USDA Forest Service, CT DEP, Wharton et al. (2004)
Furbearer trapping seasons and regulations	Furbearing mammals: Bear, coyote, beaver, et al.	CT DEP Wildlife division (2009), CT DEEP (2014a)
Deer Management Program	White-tailed Deer	CT DEEP http://www.ct.gov/deep/cwp/view.asp?a=2723&q=325718&deepNav_GID=1655#Hunting
A catalogue of the mammalia of Connecticut, arranged according to their natural families	Mammals	American Journal of Science, Linsley (1842)
The native and wild mammals of Connecticut	Mammals	Adams (1896)
The mammals of Connecticut	Mammals	Connecticut Geo. and Nat. Hist. Survey, Goodwin (1935)
Mammals of Connecticut	Mammals	UConn, Wetzel (1974)
Comprehensive Coastal Management Plan	Marine Mammals	OLISP, CT DEEP (2014b)
Comprehensive Conservation and Management Plan for the Sound, and Action Agenda	Marine Mammals	LISS (1994, 2014), LISS (2011)
A geospatial analysis of Mystic Aquarium's marine animal stranding data	Marine Mammals	Smith (2013)
U.S. Atlantic and Gulf of Mexico marine mammal Stock Assessment Report	Marine Mammals	NOAA (2003)
Strategic and Take Reduction Plans	Marine Mammals	NOAA http://www.nero.noaa.gov/Protected/mmp/
Rhode Island Ocean Special Area Management Plan (OceanSAMP)	Marine Mammals: North Atlantic right whale, harbor seal, harp seal	McCann et al. (2010)
Connecticut's wildlife distribution and abundance: determination of Species of Greatest Conservation Need (GCN)	Small Mammals: New England Cottontail	Connecticut CWCS (2005)
Focus areas guide a cottontail comeback	Small Mammals: New England Cottontail	WTNEC (2014)
Connecticut New England Cottontail restoration focus areas and habitat management goals	Small Mammals: New England Cottontail	CT DEEP (2014c)
Final report: Development of noninvasive monitoring tools for New England Cottontail populations	Small Mammals: New England Cottontail	Kovach (2012)
Conservation strategy for the New England Cottontail (<i>Sylvilagus transitionalis</i>)	Small Mammals: New England Cottontail	Fuller and Tur (2012)
Inventory and assessment of Connecticut's priority species	Small Mammals: Southern red-backed vole, woodland vole, meadow jumping mouse, and woodland jumping mouse	CT DEEP Report to USFWS (2010)

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Title	Species or Faunal Group	Source or Reference
BIRDS		
Inventory and assessment of Connecticut's priority species	Birds	CT DEEP Report to USFWS (2009)
Inventory and assessment of Connecticut's priority species; Avian Database	Birds	CT DEEP Report to USFWS (2011)
Restoration of Shrubland Bird Habitat in the Northern Appalachian Mountain Bird Conservation Region	Birds	McDowell (2011)
Avian monitoring indicators and measures for conservation action effectiveness in the Northeast, final report	Birds	Lambert (2009)
New England/Mid-Atlantic Coast Bird Conservation Region (BCR 30) Implementation Plan	Birds	ACJV (2008)
The checklist of the birds of Connecticut	Birds	Connecticut Ornithological Association (COA 2014)
The Atlas of Breeding Birds of Connecticut	Birds	CT DEP, Connecticut State Geo. And Nat. Hist. Survey, Bevier (1994)
Spring migration report: New England	Birds	Perkins (2001)
The birds of Connecticut	Birds	Connecticut Geo. And Nat. Hist. Survey, Sage et al. (1913)
Connecticut birds	Birds	Zeranski and Babtist (1990)
The Connecticut rare records committee	Birds	Bevier (1996)
A review of the birds of Connecticut, with remarks on their habitats	Birds	Merriam (1877)
Region 5 Avian Conservation Summary for Connecticut	Birds	CT DEP, TCI, USFWS R5 (2004)
Partners in Flight Landbird Conservation Plan: physiographic area 09, southern New England; and Continental priorities and objectives	Birds	Dettmers and Rosenberg (2000), Rosenberg (2004)
Conservation Status of Fish, Wildlife, and Natural Habitats in the Northeast Landscape	Birds	Anderson and Olivero Sheldon (2011)
Inventory and assessment of Connecticut's priority species	Birds: Whip-poor-will, Purple Martin, Chimney swift	CT DEEP Report to USFWS (2012a)
State of the Birds report	Birds; Grassland Birds	North American Bird Conservation Initiative (NABCI (2009, 2014))
Forest birds of the last green valley	Forest Interior Birds	Bird Conservation Research, Inc., Craig et al. (2003)
Seasonal shifts in population distributions and habitat use by permanent resident forest birds in eastern Connecticut	Forest Interior Birds	Bird Conservation Research, Inc., Craig (2011a)
Factors influencing geographic patterns in diversity of forest bird communities of eastern Connecticut	Forest Interior Birds	Craig and Klaver (2013)
Connecticut State of the Birds: State of the Forest Birds	Forest Interior Birds	CT Audubon (2011), Craig (2011b)
Status of Connecticut's birds; Protecting Connecticut's Grassland Heritage: A Report of the Connecticut Grasslands Working Group	Grassland Birds	Audubon Connecticut, Comins et al. (2003), CT DEEP (DEEP Wildlife Division, unpublished data)
Partners in Flight North American Landbird Conservation Plan	Landbirds	Partners In Flight, Rich et al. (2004)

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Partners in Flight Landbird Conservation Plan: Physiographic Area 27: Northern New England	Landbirds	Partners In Flight, Hodgman and Rosenberg (2000)
Partners in Flight Landbird Conservation Plan: Physiographic Area 09: Southern New England	Landbirds	Partners In Flight, Dettmers and Rosenberg (2000)
Mapping the distribution, abundance and risk assessment of marine birds in the northwest Atlantic ocean	Marine Birds	Gardner (2014)
Project FeederWatch	Marine Birds	Cornell University (2014)
Decline in abundance and distribution	Migratory Landbirds	Rich et al. (2004), Rosenberg (2004)
Golden-winged warbler surveys (2000-2009), Migratory Bird Stopover Habitat Project (2002-2004), annual mid-winter eagle surveys (1979-present), Bluebird Nestbox Program (1980-present), forest interior bird surveys (2010-present), shrubland bird surveys (2010-2012 and then every 5 years), nightbird surveys (2008-present)	Migratory Landbirds	DEEP Wildlife Division, unpublished data
Identifying important migratory landbird stopover sites in the Northeast	Migratory Landbirds	Buler (2014, unpublished, ongoing)
Inventory and assessment of Connecticut's priority species; Connecticut Midwinter Bald Eagle Survey	Migratory Landbirds: Bald Eagle	CT DEEP Report to USFWS (2010)
Bird Conservation Strategic Plan	Birds	Audubon Connecticut
Birds of Conservation Concern 2002	Birds	USFWS (2002)
Cerulean Warbler Status Assessment, April 2000	Cerulean warbler	USFWS
Waterbird Conservation for the Americas: The North America Waterbird Conservation Plan	Colonial waterbirds	Kushlan et al. (2002)
Migratory Gamebird Program	Gamebirds (waterfowl, wood duck, woodcock, et al.)	CT DEEP
Effects of Management Practices on Grassland Birds (series)	Grassland Birds	USGS, Dechant et al. (2003), et al.
Population Decline of the Least Tern (<i>Sterna antillarum</i>) in Connecticut: Possible Causes and Remedial Actions	Least tern	Connecticut Ornithological Association, Stevenson (2003)
Management Recommendations for Marshbirds (Summary from the Marshbird Conservation Workshop)	Marshbirds	USFWS (2001)
Northern Atlantic Regional Shorebird Plan	Shorebirds	Clark and Niles (2000)
U.S. Shorebird Conservation Plan	Shorebirds	Brown et al. (2001)
Tern Management Handbook, Coastal Northeastern United States and Atlantic Canada	Terns	USFWS, Canadian Wildlife Service, and National Audubon Society, Kress and Hall (2002) [Contact Randy Dettmers for reference]
Wild Turkey Management Program	Turkey	CT DEP
Expanding the Vision: 1998 Update, North American Waterfowl Management Plan	Waterfowl	USFWS (1999)
Waterfowl Population Status 2003	Waterfowl	USFWS (2003a)

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Ducks Unlimited's Conservation Plan: Meeting the Annual Life Cycle needs of North America's Waterfowl	Waterfowl	Ducks Unlimited (2001)
Adaptive Harvest Management: 2003 Duck Hunting Season	Waterfowl	USFWS (2003b)
Trends in Duck Breeding Populations, 1955-2003	Waterfowl	USFWS, Wilkines and Otto (2003)
Important Bird Areas program	Tidal Marsh Birds	National Audubon Society, Inc., Audubon Connecticut (2013b)
Connecticut saltmarsh and coastal/LIS bird focal areas	Tidal Marsh Birds	Audubon Connecticut (2014)
Saltmarsh sparrow research-project goals	Tidal Marsh Birds	UCONN (2003)
Planning for sea level rise: quantifying patterns of saltmarsh sparrow nest flooding under current sea level conditions	Tidal Marsh Birds	Bayard and Elphick (2011)
Conservation of tidal marsh birds guiding action at the intersection of our changing land and seascapes	Tidal Marsh Birds	CT DEEP Report to USFWS (2012b, 2013)
Identification of tidal marsh bird focal areas in Bird Conservation Region 30	Tidal Marsh Birds	Shriver (2014, unpublished, ongoing)
Egg and chick fates during tidal flooding of Saltmarsh Sharp-tailed Sparrow nests	Tidal Marsh Birds: Saltmarsh Sharp-tailed Sparrow	Gjerdrum et al. (2008)
Status assessment and conservation action plan for the eastern black rail across the northern region	Tidal Marsh Birds: Eastern black rail	Wilson (2014, progress report, unpublished)
American Woodcock Population Status	Upland Gamebirds: American woodcock	USFWS (2013)
American Woodcock Conservation Plan and Progress Report	Upland Gamebirds: American woodcock	WMI (2008, 2010)
American Woodcock Management Plan	Upland Gamebirds: American woodcock	USFWS (2013)
Ruffed Grouse Conservation Plan	Upland Gamebirds: Ruffed grouse	Ruffed Grouse Society, Association of Fish & Wildlife Agencies Resident Game Bird Working Group) RGBWG (2006)
North American Waterfowl Management Plan (NAWMP) and companion Action Plan	Waterbirds	NAWMP (2012a, 2012b)
Inventory and assessment of Connecticut's priority species; Banding of migrant shorebirds to assess long-term habitat use, site fidelity, and potential survival rate	Waterbirds	CT DEEP Report to USFWS (2010)
Coastal Waterbird Stewardship	Waterbirds	National Audubon Society, Inc., Audubon Connecticut (2013a)
Waterbird Conservation Plan for the Mid-Atlantic/New England/Maritimes Region: Connecticut priority inland waterbird, coastal wading bird, and coastal seabird habitats	Waterbirds	MANEM (2010)
Connecticut waterfowl focus area	Waterbirds	ACJV (2005)
A Bayesian network approach to predicting nest presence of the federally-threatened piping plover	Waterbirds: Piping plover	Gieder et al. (2014, published in Ecological Modeling)

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Piping Plover (<i>Charadrius melodus</i>), Atlantic Coast Population, Revised Recovery Plan; and 5-year Review: summary and evaluation	Waterbirds: Piping plover	USFWS (1996, 2009)
Roseate Tern (<i>Sterna dougallii</i>) Northeastern Population Recovery Plan	Waterbirds: Roseate tern	Northeast Roseate Tern Recovery Team, USFWS (1998, 2011)
Piping plover distribution along the Connecticut Coast	Waterbirds: Piping plover	CT CWCS (2005)
Wintering surveys to guide conservation and management activities	Waterbirds: American black duck, black duck mallard hybrids, mallards	CT DEP (2009), CT DEEP Report to USFWS (2009)
HERPETOFAUNA		
Model state herpetofauna regulatory guidelines	Amphibians	NEPARC (2004)
Northeast habitat management guidelines	Amphibians	NEPARC (2009)
Best development practices: conserving pool-breeding amphibians in residential and commercial developments in the northeastern U.S.	Amphibians	Calhoun and Klemens (2002)
Inventory and assessment of Connecticut's priority species; Determining the presence of Chytridiomycosis, or Chytrid fungus, in Connecticut's amphibians	Amphibians	CT DEEP Report to USFWS (2010)
The reptiles of Connecticut	Herpetofauna	Connecticut Geo. And Nat. Hist. Survey, Lamson (1935)
Amphibians and reptiles of Connecticut and adjacent regions	Herpetofauna	Connecticut Geo. And Nat. Hist Survey, Klemens (1993)
Assessing priority amphibian and reptile conservation areas (PARCAs) and vulnerability to climate change in the North Atlantic Landscape Conservation Cooperative	Herpetofauna	Nanjappa (2014)
Northeast state of the frogs: development of regional analysis for frog call survey data from the North American Amphibian Monitoring Program	Herpetofauna	Weir (2013, unpublished)
The wood turtle (<i>Glyptemys insculpta</i>) in the northeastern United States: a status assessment and conservation strategy	Herpetofauna	Sievert (2014, in review, unpublished)
Year of the Turtle (2011), Year of the Lizard (2012), Year of the Snake (2013), Year of the Salamander (2014)	Herpetofauna	PARC, CT DEEP Report to USFWS (2011, 2012), CT DEEP (2013, 2014)
The amphibian of Connecticut	Herpetofauna	Connecticut Geo. And Nat. Hist Survey, Babbitt (1937)
Connecticut's venomous snakes: timber rattlesnake and northern copperhead	Herpetofauna	Connecticut Geo. And Nat. Hist. Survey, Peterson (1970)
Checklist of the amphibians and reptiles of Connecticut with notes on uncommon species	Herpetofauna	CT DEP, Klemens (1991)
Amphibians and Reptiles in Connecticut: A Checklist with Notes on Conservation Status, Identification, and Distribution	Herpetofauna	CT DEP, Klemens (2000)
Reptiles in decline: the global decline of reptiles, déjà vu amphibians	Herpetofauna	Bioscience, Gibbons et al. (2000)
Inventory and assessment of Connecticut's priority species	Herpetofauna: Eastern spadefoot	CT DEEP Report to USFWS (2010)

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Habitat Management Guidelines for Amphibians and Reptiles of the Midwest	Reptiles and Amphibians	PARC, Kingsbury and Gibson (2002)
Habitat Management Guidelines for Amphibians and Reptiles of the Northeastern United States	Reptiles and Amphibians	PARC, Breisch et al (in Press)
Habitat Management Guidelines for Amphibians and Reptiles of the Southeastern United States	Reptiles and Amphibians	PARC. Bailey et al (in Press)
Bog Turtle (<i>Clemmys muhlenbergii</i>), Northern Population, Recovery Plan: Conservation in the Northeast	Reptiles: Bog turtle	USFWS (2001, 2011)
Recovery Plan for U.S. Population of Loggerhead Turtle	Reptiles: Loggerhead (sea) turtle	NMFS and USFWS (2008) http://www.nmfs.noaa.gov/pr/pdfs/recovery/turtle_loggerhead_atlantic.pdf
Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic and Gulf of Mexico	Reptiles: Leatherback (sea) turtle	NMFS and USFWS (1992), (2013) http://www.nmfs.noaa.gov/pr/listing/5yearreview_leatherbackturtle.pdf , http://www.nmfs.noaa.gov/pr/pdfs/recovery/turtle_leatherback_atlantic.pdf
Recovery Plan for Hawksbill Turtles in the U.S. Caribbean Sea, Atlantic Ocean, and Gulf of Mexico	Reptiles: Hawksbill (sea) turtle	NMFS and USFWS (1993), http://www.nmfs.noaa.gov/pr/pdfs/recovery/turtle_hawksbill_atlantic.pdf , http://www.nmfs.noaa.gov/pr/pdfs/species/hawksbillseaturtle2013_5yearreview.pdf
Recovery Plan for U.S. Population of Atlantic Green Turtle	Reptiles: Green (sea) turtle	NMFS and USFWS (1991) http://www.nmfs.noaa.gov/pr/pdfs/recovery/turtle_green_atlantic.pdf
Recovery Plan for the Kemp's Ridley Sea Turtle (<i>Lepidochelys kempii</i>)	Reptiles: Atlantic Ridley sea turtle	USFWS and NMFS (1992) http://www.nmfs.noaa.gov/pr/pdfs/recovery/kempsey_revision2.pdf
Marine mammals and sea turtles of Narragansett Bay, Block Island Sound, Rhode Island Sound, and nearby waters: an analysis of existing data for the Rhode Island Ocean Special Area Management Plan	Reptiles	Kenney and Vigness-Raposa (2010)
A geospatial analysis of Mystic Aquarium's marine animal stranding data	Reptiles: Turtles	Smith (2013)
Wood Turtle regional conservation surveys	Reptiles: Wood Turtle	NEPARC, CT DEP (2009), CT DEEP Report to USFWS (2010)
Timber rattlesnake education, records, protection, and enforcement monitoring efforts	Reptiles: Timber rattlesnake	CT DEEP Report to USFWS (2010)
Assessment and evaluation of prevalence of fungal dermatitis in New England timber rattlesnake populations	Reptiles: Timber rattlesnake	Perotti (2014, unpublished)
FISH		
Connecticut Anadromous Fish Investigation	Anadromous Fish: American shad, river herring	CT DEP Marine Fisheries Division (1974-2004)
Diadromous fish enhancement and restoration	Diadromous Fish	CT DEP Inland Fisheries Division, CT DEP (2002)

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Title	Species or Faunal Group	Source or Reference
Burbot swim performance and speed; and brook trout population fragmentation	Diadromous Fish: Burbot, brook trout	CT DEP (2009), CT DEEP Report to USFWS (2008, 2010a)
Assessment of Atlantic sturgeon in Long Island Sound and Connecticut waters	Diadromous Fish: Atlantic Sturgeon	CT DEEP Report to USFWS (2010b)
Shortnose sturgeon research	Diadromous Fish: Shortnose sturgeon	DEEP Marine Fisheries Division, CT DEEP (2014b)
Biological Condition Gradient (BCG)	Fish	US EPA, CT DEP, Gerritsen and Jessup (2007), Stamp and Gerritsen (2013)
Multi-Metric Index (MMI)	Fish	Kanno et al. (2010)
Most significant threats to freshwater fish	Fish	American Fisheries Society, USGS, Walsh et al. (2009)
Conservation Strategic Plan 2012-2016 and 2012-2013 Implementation Plan	Fish	Atlantic Coastal Fish Habitat Partnership (ACFHP (2012a, 2012b))
Through a Fish's Eye: The Status of Fish Habitats in the United States 2012	Fish	AFWA, National Fish Habitat Board (NFHB (2010)
National Fish Habitat Action Plan (NFHAP)	Fish	AFWA (2006), NFHB (2012)
Freshwater Fishes of Connecticut	Fish	CT Geol. Nat. History Survey, Whitworth (1996)
Fisheries conservation in Connecticut: Investigations into river herring populations; burbot population status; and in-stream fisheries habitat models	Fish: Stiped bass, herring	CT DEEP Report to USFWS (2008)
Movement, habitat use and detection probability of bridle shiner estimated by patch occupancy modeling in a Connecticut watershed	Fish: Bridle shiner	CT DEEP Report to USFWS (2012)
Assessment of status and distribution of bridled shiner in Connecticut: 2013, Final Report	Fish: Bridle shiner	CT DEEP (2014c)
An assessment of Connecticut's native fish species at risk	Fish: Rainbow smelt, Atlantic Tomcod	CT DEEP Report to USFWS (2005)
Freshwater fishes of Connecticut	Freshwater Fish	Connecticut Geological and Natural History Survey, Thorpe et al. (1968)
A pictorial guide to freshwater fishes of Connecticut	Freshwater Fish	CT DEEP, Jacobs and O'Donnell (2009)
Fisheries Management Program	Freshwater Fish	CT DEEP (2014a)
A Study of Marine Recreational Fisheries in Connecticut	Marine Fish	CT DEP Marine Fisheries Division CT DEP (2004)
Saltwater Fishes of Connecticut	Marine Fish	CT Geol. Nat. History Survey, Thomson et al. (1971, 1978)
A Marine Resources Management Plan for marine fisheries in Connecticut	Marine Fish	Marine Fisheries Division, CT DEP, Blake and Smith (1984)
Long Island Sound Environmental Impact Statement (LIS EIS)	Marine Fish	US EPA LIS (2004)
Long Island Sound trawl study	Marine Fish	CT DEEP (2013)
Atlantic Herring Fishery Management Plan	Marine Fish: Atlantic sea herring	NEFMC (1999a, 1999b, 2013), ASMFC (1999a)

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Atlantic Mackerel, Squid, and Butterfish Fishery Management Plan	Marine Fish: Atlantic mackerel, Long-finned squid, Short-finned squid, butterfish	MAFMC (1983, 2011b)
Interstate Fishery Management Plan for Atlantic Menhaden	Marine Fish: Atlantic menhaden	ASMFC (2001, 2012b)
Interstate Fishery Management Plan for Atlantic Sturgeon	Marine Fish: Atlantic sturgeon	ASMFC (1998, 2006)
Atlantic Surfclam and Ocean Quahog Fishery Management Plan	Marine Fish: Atlantic surfclam, Ocean quahog	MAFMC (1977, 2011a)
Bluefish Fishery Management Plan	Marine Fish: Bluefish	MAFMC (1990, 2011c)
Monkfish Fishery Management Plan	Marine Fish: Monkfish	NEFMC (2003d, 2011b)
Northeast Multispecies (Large Mesh/Groundfish) Fishery Management Plan	Marine Fish: Groundfish	NEFMC (2003e, 2009a), Murphy (2014)
Northeast Multispecies (Small Mesh/Whiting) Fishery Management Plan	Marine Fish: Whiting	NEFMC (2003f, 2012)
Northeast Skate Complex Fishery Management Plan	Marine Fish: Skates	NEFMC (2003g, 2009b)
Interstate Fishery Management Plan for Red Drum	Marine Fish: Red drum	ASMFC (2002d, 2013d)
Spiny Dogfish Fishery Management Plan	Marine Fish: Spiny dogfish	ASMFC (2002a, 2013a)
Summer Flounder, Scup, and Black Sea Bass Fishery Management Plan	Marine Fish: Summer flounder, scup, black sea bass	MAFMC (1988, 2011d)
Fishery Management Plan for Tautog	Marine Fish: Tautog	ASMFC (2002b, 2013b)
Interstate Fishery Management Plan for Weakfish	Marine Fish: Weakfish	ASMFC (2002c, 2013c)
Fishery Management Plan for Inshore Stocks of Winter Flounder	Marine Fish: Winter flounder	ASMFC (2005, 2013e)
Atlantic Salmon Fishery Management Plan	Marine Fish: Atlantic salmon	NEFMC (2003a, 2007)
Atlantic Sea Scallop Fishery Management Plan	Marine Fish: Atlantic sea scallop	NEFMC (2003b, 2010)
An Electrofishing Survey of Selected Connecticut Lakes	Bass, gamefish, catfish, panfish, sunfish, zooplankton	Fisheries Division, CT DEP, Jacobs and O'Donnell (1996)
Assessment of alewife and blueback herring populations in Connecticut coastal streams and Connecticut River tributaries	Alewife, blueback herring	Schultz and Neumann (2003a) for CT DEP
Interstate Fishery Management Plan for American Eel	American eel	ASMFC (2000)
Fishery Management Plan for American Shad in the Connecticut River	American shad	DEP Marine Fisheries Division Crecco and Savoy (1987)
Distribution and Habitat Characteristics of Banded Sunfish in Connecticut	Banded sunfish, largemouth bass, other sunfish	Fisheries Division, CT DEP, Jann et al. (1999)
A Management Plan for Bass in Connecticut Waters and Recommendations for Other Warmwater Species	Bass and warm freshwater fishes	Fisheries Division, CT DEP, Jacobs et al. (1999)
Marine, estuarine, and diadromous fish stocks at risk of extinction in North America	Fish	AFS, Musick et al. (2000)

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Long Island Sound Comprehensive Conservation and Management Plan	Fish, Invertebrates	OLISP, CT DEP, Long Island Sound Study (1994, 2003)
Fishes of North America Endangered, Threatened, or of Special Concern: 1989	Freshwater Fish	AFS, Williams et al. (1989)
A Survey of Connecticut Streams and Rivers – Statewide Summary	Freshwater Fish, Invertebrates	Fisheries Division, CT DEP, Hagstrom et al. (1995)
A Survey of Connecticut Streams and Rivers – Lower Housatonic River and Naugatuck River Drainages	Freshwater Fish, Invertebrates	Fisheries Division, CT DEP, Hagstrom et al. (1992)
A Survey of Connecticut Streams and Rivers – Connecticut River Tributaries, Scantic River, Mattabeset River, Salmon River, Coginchaug River and Eightmile River Drainages	Freshwater Fish, Invertebrates	Fisheries Division, CT DEP, Hagstrom et al. (1990)
Tilefish Fishery Management Plan	Golden tilefish	MAFMC (2000)
Essential Fish Habitat	Marine Fish	NEFMC (1998)
Annual Status of U.S. Fisheries – 2001	Marine Fish	NOAA (2002)
Interstate Fishery Management Plan for Northern Shrimp	Northern shrimp	ASMFC (2004)
Anadromous rainbow smelt in Connecticut: Assessment of populations, conservation status, and need for restoration plan	Rainbow smelt	Schultz and Neumann (2003b) for CT DEP
Interstate Fishery Management Plan for Shad and River Herring	Shad, river herring	ASMFC (1999b)
Final Recovery Plan for the Shortnose Sturgeon	Shortnose sturgeon	NMFS (1998)
Interstate Fishery Management Plan for Atlantic Striped Bass	Striped bass	ASMFC (2003)
Tomcod in Connecticut: Assessment of populations, conservation status, and need for restoration plan	Tomcod	Schultz and Neumann (2003c) for CT DEP
A Trout Management Plan for Connecticut’s Rivers and Streams	Trout	Fisheries Division, CT DEP, Hyatt et al. (1999)
Fishery Management Plan for Atlantic Tunas, Swordfish and Sharks	Tuna, swordfish, sharks	NMFS (2003)
INVERTEBRATES		
Comparisons of butterfly richness and abundance measures in prairie and barrens	Butterflies and Moths	Swengel (1998)
The Connecticut butterfly atlas	Butterflies and Moths	State Geo. And Nat. Hist. Survey, O’Donnell et al. (2007)
Connecticut Butterfly Atlas Project	Butterflies and Moths	Yale Peabody Museum of Natural History (1999)
Inventory and assessment of Connecticut’s priority species	Butterflies and Moths: Northern metalmark	CT DEEP Report to USFWS (2009)
North American Monarch Conservation Plan	Butterflies and Moths: Monarch	Commission for Environmental Cooperation (CEC (2008)
Interstate Fishery Management Plan for American Lobster	American lobster	ASMFC (1997, 2012a)
Lobster Monitoring Program	American lobster	CT DEEP (2014d), Gottschall et al. (2000)
Deep-Sea Red Crab Fishery Management Plan	Red crab	NEFMC (2003c, 2011a)

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Title	Species or Faunal Group	Source or Reference
Interstate Fishery Management Plan for Horseshoe Crab	Horseshoe crab	ASMFC (1998)
Sites for state-listed freshwater mussels in Connecticut	Freshwater and Marine Shellfish: Freshwater mussels	CT DEP Wildlife Division (2005)
Freshwater ecoregions of North America: a conservation assessment	Freshwater and Marine Shellfish	Abell et al. (2000)
Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems	Freshwater and Marine Shellfish	LaRoe et al. (1995)
The freshwater snails of Connecticut	Freshwater and Marine Shellfish	Jokinen (1983)
Inventory and assessment of Connecticut's priority species	Freshwater and Marine Shellfish: Freshwater mussels	CT DEEP Report to USFWS (2012)
The IUCN Red List for Alasmidonta heterodon	Freshwater and Marine Shellfish: Dwarf wedgemussel	Cummings and Cordeiro (2011)
Dwarf wedge mussel (Alasmidonta heterodon) recovery plan	Freshwater and Marine Shellfish: Dwarf wedgemussel	USFWS (1993a)
Connecticut state wildlife grants; Horseshoe crab spawning	Freshwater and Marine Shellfish: Horseshoe crab	CT DEP (2009)
Field Guide to the Freshwater Mussels of Connecticut	Freshwater and Marine Shellfish: Freshwater mussels	CT DEP (2003)
Distribution of benthic macroinvertebrates in Connecticut	Freshwater Benthic Invertebrates	CT DEP BWM Rotating Basin Strategy
Assessment of the status and distribution of native crayfish in Connecticut: 2010-2012	Freshwater Benthic Invertebrates	CT DEEP (2013), Hagstrom et al. (2013)
BWM Rotating Basin Strategy; distribution of benthic macroinvertebrates in Connecticut	Freshwater Benthic Invertebrates: Aquatic macroinvertebrates	CT DEP Bureau of Water Resources
Conservation Status of Freshwater Mussels of the United States and Canada	Freshwater Mussels	Williams et al. (1993)
Invertebrate SGCN in the northeastern region	Invertebrates	Fetzner (2011)
Conservation assessment of odonata in the northeastern region	Invertebrates	White (2013, unpublished, in review)
Endangered Invertebrates: the case for greater attention to invertebrate conservation	Invertebrates	Black et al. (2001)
Inventory and assessment of Connecticut's priority species	Invertebrates: Freshwater mussels, bees	CT DEEP Report to USFWS (2010)
Connecticut Lobster (Homarus americanus) Population Studies	American lobster	CT DEP Marine Fisheries Division (1983-2004)
Potential Impact of Road-Stream Crossings (Culverts) on the Upstream Passage of Aquatic Macroinvertebrates	Aquatic Macroinvertebrates	Xerces Society, Vaughan (2002)
Northeastern Beach Tiger Beetle (Cicindela dorsalis dorsalis Say) Recovery Plan	Northeastern beach tiger beetle	USFWS (1994)
Pollinators	Pollinators	Natural Resources Conservation Service NRCS (2007)

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Title	Species or Faunal Group	Source or Reference
Presidential Memorandum-creating federal strategy to promote the health of honey bees and other pollinators	Pollinators	White House Office of the Press Secretary (WHOPS) (2014)
Red list of bees: native bees in decline	Pollinators	Xerces Society (2014)
Pollinators and the State Wildlife Action Plans: voluntary guidance for state wildlife agencies	Pollinators	The Heinz Center (2013)
Connecticut tiger beetle status survey (Carabidae: Cicindelinae). Conservation status, taxonomy, and ecology	Tiger beetles	Sikes (1997)
The IUCN Red List of threatened species: Cicindela puritana	Tiger beetles	Kinsley (2014)
Puritan Tiger Beetle (Cicindela puritana G. Horn) Recovery Plan; and 5-year review: summary and evaluation	Tiger beetles: Puritan tiger beetle	USFWS (1993b, 2007)
PLANTS		
Northeastern terrestrial wildlife habitat classification	Plants	Gawler (2008)
Flora Conservanda: New England plants in need of conservation	Plants	New England Wild Flower Society, NEWFS (2012)
Northeast Habitat Guides: a companion to the terrestrial and aquatic habitat maps	Plants	Anderson et al. (2013)
Recovery of forest plant communities in post-agricultural landscapes	Plants	Flinn and Vellend (2005)
SPECIES OF GREATEST CONSERVATION NEED (SGCN)		
The Northeast Lexicon: terminology conventions and data framework for state wildlife action plans in the northeast region	SGCN	TCI, Crisfield and NEWDTC (2013)
Best practices for state wildlife action plans: voluntary guidance to states for revision and implementation	SGCN	SWAP BPWG (2012)
General areas of concern for state and federally listed species and significant natural communities	SGCN	CT DEEP NDDDB (2014)
WILDLIFE RESOURCE VALUE AND PUBLIC USE (WRVPU)		
Connecticut Statewide Comprehensive Outdoor Recreation Plan (CT SCORP)	WRVPU	CT DEEP (2011)
2011 national survey of fishing, hunting, and wildlife-associated recreation	WRVPU	US DOI et al. (2013)
2014 Connecticut hunting and trapping	WRVPU	CT DEEP (2014c)
Hunting and trapping	WRVPU	CT DEEP (2014a)
2014-2015 migratory bird hunting guide	WRVPU	CT DEEP (2014b)
2014 Connecticut angler's guide	WRVPU	CT DEEP (2014d)
MULTIPLE SPECIES		
Species Management Plans for Northeast Species of Conservation Concern	106 SGCN	Northeast Fish and Wildlife Agency Administrators (in press)
Natural Biological Diversity Database	Rare species	CT DEP, Natural History Survey

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Title	Species or Faunal Group	Source or Reference
North Atlantic Coast Ecoregional Conservation Plan	Target Species	The Nature Conservancy, Beers and Davison (1999)
Lower New England – Northern Piedmont Ecoregional Conservation Plan	Target Species	The Nature Conservancy, Barbour et al. (2003)
Connecticut Rivers Assessment: Evaluation Guidelines	Riverine associated Fish and Wildlife	CT DEP, NPS and Milone & Macbroom, Inc. (1993)
Interstate Marine Fisheries Management	Commercially Exploited Marine Finfish and Lobsters	CT DEP Marine Fisheries Division (1995-2004)
NatureServe Explorer: An Online Encyclopedia of Life	All Species	NatureServe

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TABLE 2: GENERAL DATA SOURCES CONSULTED

Data	Source
American Fisheries Society Policy Statements for conserving fishery resources	American Fisheries Society, http://fisheries.org/docs/policy_statements/policy_1f.pdf
An Ocean Blueprint for the 21st Century	U.S. Commission on Ocean Policy
Anadromous rainbow smelt in Connecticut: Assessment of populations, conservation status, and need for restoration plan x	Schultz and Neumann (2003b) for CT DEP
Annual Status of U.S. Fisheries – 2001	NOAA (2002)
Appalachian Cooperative Grouse Research Project	Ruffed Grouse Society; Reynolds et al. (2000)
Application of the Sea-Level-Rise Affecting Marsh Model to Coastal Connecticut, Executive Summary 2015	CT DEEP Office of Long Island Sound Programs
Aquatic Species at Risk (freshwater mussels, freshwater fish, marine fish)	American Fisheries Society
Assessment of alewife and blueback herring populations in Connecticut coastal streams and Connecticut River tributaries	Schultz and Neumann (2003a) for CT DEP
Atlas of Cerulean Warbler Populations x	Rosenberg, K. (2000)
Best management practices for herpetofauna	Partners in Amphibian and Reptile Conservation (PARC); MCA; Calhoun and Klemens (2002)
Breeding Bird Atlas	Bevier (1994) [CT DEP]
Butterfly Atlas	Connecticut Butterfly Association, Yale Peabody Museum http://peabody.yale.edu/collections/entomology/connecticut-butterfly-atlas-project
Clean Air Act State Implementation Plan	CT DEP, Bureau of Air Management
Connecticut Anadromous Fish Investigation	CT DEP, BNR, Marine Fisheries Division (1974-2004)
Connecticut Blueprint for Conservation, Connecticut Wildlife Action Plan (CT WAP)	TNC, DEEP http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&depNav_GID=1719
Connecticut Coastal and Estuarine Land Conservation Program	CT DEEP (2015)
Connecticut Conservation and Development Plan	Office of Policy and Management (OPM)
Connecticut Rivers Assessment	CT DEP, National Park Service, and Milone and MacBroom, Inc. (1993)
Connecticut Statewide Forest Resource Plan	CT DEP, Forestry Division http://www.ct.gov/deep/lib/deep/forestry/forest_resource_plan/fplanall.pdf
Conservation grant programs in Connecticut (e.g., EQIP, WHIP, GRP, FRPP, CSP)	Natural Resources Conservation Service (NRCS), U.S. Department of Agriculture (USDA) http://www.ctconservation.org/fundingprograms
Conservation Status of Freshwater Mussels of the United States and Canada	AFS; Williams et al. (1993)
Cornell Lab of Ornithology reports and publications	Cornell Lab of Ornithology
CT Open Space Initiative (Green Plan), Open Space and Watershed Land Acquisition Grant Program (Green Plan under revision)	CT DEP, Division of Land Acquisition and Management, http://www.ct.gov/deep/lib/deep/open_space/green_plan.pdf , http://www.ct.gov/deep/lib/deep/open_space/green_plan_work_plan.pdf

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Data	Source
DEP, Agency, Division, and Program Strategic and Operational Plans, DEP, Division Strategic Plans Strategic Planning and Grant Administration	CT DEP, Division of Emergency Management and Homeland Security (DEMHS); Department of Emergency Services and Public Protection (DESPP), http://www.ct.gov/demhs/cwp/view.asp?a=1910&q=411684
Distribution and Habitat Characteristics of Banded Sunfish in Connecticut	CT DEP, Inland Fisheries Division; Jann et al. (1999)
Eightmile River Wild and Scenic River Study	NPS
Electrofishing Survey of Selected Connecticut Lakes	CT DEP, Inland Fisheries Division; Jacobs and O'Donnell (1996)
Endangered Invertebrates: the case for greater attention to invertebrate conservation	Xerxes Society; Hoffman Black et al. (2001)
Essential Fish Habitat (EFH) Strategic Plan	National Marine Fisheries Service/NOAA Fisheries, http://www.habitat.noaa.gov/protection/efh/index.html
Farmington Valley Biodiversity Project	Farmington River Valley Watershed Association and the Metropolitan Conservation Alliance, http://frwa.org/publications/biodiversity_report_final.pdf
Field Guide to the Freshwater Mussels of Connecticut	CT DEP Wildlife Division (2003)
Fisheries Division Annual and Project Reports, Unpublished	CT DEEP, BNR, Fisheries Division
Fishes of North America Endangered, Threatened, or of Special Concern: 1989	AFS; Williams et al. (1989)
Forest Inventory and Analysis Program	U.S. Forest Service http://www.fia.fs.fed.us/
Forest Land Enhancement Program State Priority Plan	CT DEEP, Forestry Division http://www.ecfla.org/articles/enhancement.htm
Forest Legacy Program	CT DEEP, Forestry Division; USFS
Freshwater Fishes of Connecticut	CT DEP, EGIC, CT Geological and Natural History Survey; Whitworth (1996)
Game (Harvested Species annual/ program reports- unpublished)	CT DEEP, Wildlife Division
Grassland Bird Database	CT DEEP, statewide volunteers
Grassland Bird Reports	Northern Prairie Wildlife Research Center, USGS
Habitat Classification Systems	U.S. Forest Service; NatureServe; TNC; Federal Geographic Data Committee (FGDC); University of Massachusetts (Zuckerberg et al. 2004); Metzler and Barrett (2005); Anderson et al. (1976); Cowardin et al. (1979)
Habitats and Species of Greatest Conservation Need in CT	Taxa experts
Herpetofauna Atlas of CT	M. Klemens, MCA
Imperiled Ecosystems of Connecticut	Metzler and Wagner (1998)
Important Bird Areas (IBA) Program	Connecticut Audubon, National Audubon Society
International Shorebird Survey	Manomet Center for Conservation Sciences (1974)
Landowner Assistance Program, Tier 1, 2 Grant Proposals and supporting documentation	CT DEP, Wildlife Division
Land Use and Land Cover Project	UConn, Center for Land Use Education And Research (CLEAR) http://clear.uconn.edu/projects/landscape/

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Data	Source
Long Island Sound Environmental Studies Program	USGS
Long Island Sound Study	EPA, OLISP; Save the Sound, http://longislandsoundstudy.net/
Lower Connecticut River	Rivers Alliance; Connecticut River Salmon Association; Connecticut River Watershed Council; TNC
Management Recommendations for Marshbirds (Summary from the Marshbird Conservation Workshop)	USFWS (2001)
Marine, estuarine, and diadromous fish stocks at risk of extinction in North America	AFS; Musick et al. (2000)
Marine fish, marine mammal, and invertebrate management plans and stock assessments	NMFS and ASMFC
MCA Surveys and Workshops for local conservation planning	Municipalities and local decision-maker groups (e.g. Litchfield city land planner group); Town conservation groups; Town Conservation and Inland Wetland Commissions
Metacomet-Mondanock-Mattabesett National Scenic Trail Study	NPS
Migratory Bird Plans, NALCP, NAWP, etc.	USFWS, PIF
Natural Diversity Data Base (NDDDB)	CT DEP, EGIC, CT Geological and Natural History Survey, http://www.ct.gov/deep/cwp/view.asp?a=2702&q=323466&deepNav_GID=1628%20
Natural History Surveys, CT Geological and Natural History Survey Reports and Maps	CT DEEP, EGIC
Natural Resources Inventory Program	USDA, NRCS, http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/nra/nri/
NatureServe Explorer: An Online Encyclopedia of Life	NatureServe
Nonpoint Education for Municipal Officials (NEMO)	University of Connecticut (UConn), http://nemo.uconn.edu/
Partners in Flight Plans, Rreports, Website	PIF, http://www.partnersinflight.org/
Potential Impact of Road-Stream Crossings (Culverts) on the Upstream Passage of Aquatic Macroinvertebrates	Xerxes Society, Vaughan (2002)
Private Landowner Program	CT DEEP, Wildlife Division, http://www.ct.gov/deep/cwp/view.asp?a=2697&q=322796&depNav_GID=1631
Quinebaug and Shetucket Rivers Valley National Heritage Corridor Program	Green Valley Institute; National Park Service; Quinebaug-Shetucket Heritage Corridor, Inc.
Rare and Endangered Species of CT	Dowhan and Craig (1976); CT DEP, Wildlife Division
Resource Protection Areas	EPA; CT DEEP
Rotating Basin Survey	CT DEEP, Bureau of Water Resources
Ruffed Grouse and American Woodcock Population Data and Reports	Ruffed Grouse Society; USFWS Region 5 Woodcock Report
Saltwater Fishes of Connecticut	CT DEP, EGIC, Geological and Natural History Survey; Thomson et al. (1978)
Shorebird Management Manual	Helmers (1992), http://www.lmvjv.org/library/shorebird_management_manual_1992.pdf

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Data	Source
Shorebird Plan, Workshop Reports	Clark and Niles (2000)
Species Accounts for the Rare Fishes of New York	NY Department of Environmental Conservation (2001)
Species' Life History Data	NatureServe; Northeast Wildlife Administrators; USFWS; scientific literature, DEP program databases and unpublished reports
Specimen Collections and Museums	UCONN (James Fisher- mammals, David Wagner, Michael Thomas- inverts)
State Comprehensive Outdoor and Recreation Plan (SCORP)	Bureau of Outdoor Recreation, CT DEEP, http://www.recpro.org/scorps
Statewide Conservation and Development Plan	CT Office of Policy and Management
Stream Survey and Water Quality Monitoring Data (including 303,305 reports)	CT DEEP, Bureau of Water Management
Study of Marine Recreational Fisheries in Connecticut	CT DEP, Marine Fisheries Division (1984-2004)
Survey of Connecticut Streams and Rivers – Connecticut River Tributaries, Scantic River, Mattabesset River, Salmon River, Coginchaug River and Eightmile River Drainages	CT DEP, Inland Fisheries Division; Hagstrom et al. (1990)
Survey of Connecticut Streams and Rivers – Lower Housatonic River and Naugatuck River Drainages	CT DEP, Inland Fisheries Division; Hagstrom et al. (1992)
Survey of Connecticut Streams and Rivers – Statewide Summary	CT DEP, Inland Fisheries Division; Hagstrom et al. (1995)
Surveys on Conservation Needs in CT	CT DEEP CWCS unpublished; federal agencies; non-governmental organizations; municipalities
Technical Committees of the NEFWA Reports and Publications on Deer, Turkey, Furbearer, Nongame, etc.	NEFWA Technical Committees
Tomcod in Connecticut: Assessment of Populations, Conservation Status, and Need for Restoration Plan	Schultz and Neumann (2003c) for CT DEP
Urban and Community Forestry Program	CT DEEP, Forestry Division; UCONN, Cooperative Extension Service
Water Quality Assessment Plan, CT Comprehensive Ambient Water Quality Monitoring Strategy	CT DEEP, Bureau of Water Management, http://www.ct.gov/deep/lib/deep/water/water_quality_management/ct_comp_amb_wtr_qual_monit_strat.pdf
Waterbird Plans and reports, North American Waterbird Conservation Plan	USFWS; MANEM; CT Audubon, http://www.waterbirdconservation.org/nawcp.html
Waterfowl Population Status 2003, North American Waterfowl Management Plan	USFWS, http://www.fws.gov/birdhabitat/NAWMP/index.shtm
Wildlife Division Annual and Project Reports, unpublished	CT DEEP, BNR, Wildlife Division

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TABLE 3: PUBLICLY AVAILABLE INFORMATION SOURCES CONSULTED (ON THE WORLD WIDE WEB)

Organization/Group/Source	Website
American Fisheries Society	http://www.fisheries.org
Aspetuck Land Trust	http://www.aspetucklandtrust.org
Atlantic States Marine Fisheries Commission	http://www.asafc.org/
Audubon Connecticut	http://ct.audubon.org/
Avian Records Committee of Connecticut	http://www.ctbirding.org/ARCC.htm
Bat Conservation International	http://www.batcon.org/
Coastal America Partnership	http://www.coastalamerica.gov
Connecticut Association of Conservation and Inland Wetlands Commission (CACIWC)	http://www.caciwc.org/
Connecticut Audubon Society	http://www.ctaudubon.org
Connecticut Butterfly Atlas Project	http://peabody.yale.edu/collections/entomology/connecticut-butterfly-atlas-project
Connecticut's Changing Landscape Project	http://clear.uconn.edu/projects/landscape/index.htm
CT Council on Environmental Quality	http://www.ct.gov/ceq/site/default.asp
Connecticut Coverts Program	http://www.ctforestry.uconn.edu/Coverts_000.html
Connecticut Department of Agriculture	http://www.ct.gov/doag/site/default.asp
Connecticut Department of Energy and Environmental Protection (CT DEEP)	http://www.ct.gov/deep/site/default.asp
CT Geological and Natural History Survey	http://www.ct.gov/deep/cwp/view.asp?A=2701&Q=323434
Connecticut Greenways Program	http://www.ct.gov/deep/cwp/view.asp?a=2707&q=323852
CT Natural Diversity Database (CT NDDB)	http://www.ct.gov/deep/cwp/view.asp?a=2702&q=323464&depNav_GID=1628
CT Office of Long Island Sound Program	http://www.ct.gov/deep/cwp/view.asp?a=2705&q=323790&deepNav_GID=1635%20
CT Office of Policy and Management	http://www.opm.state.ct.us
Connecticut Ornithological Association	http://www.ctbirding.org
Council of Governments (RiverCOG)	http://www.rivercog.org/reportformerCRERPA.html
Connecticut River Gateway Commission	http://www.ctrivergateway.org/
Connecticut River Salmon Restoration Association	http://www.ctriveralmon.org
Connecticut River Watershed Council	http://www.ctriver.org
Connecticut Sea Grant Program	http://www.seagrant.uconn.edu/
Connecticut Waterfowl Association	http://www.ctwaterfowlers.org

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Organization/Group/Source	Website
Conservation Gateway	http://www.conservationgateway.org/Pages/COL.aspx?Src=
Cooperative Extension System, UCONN	http://www.extension.uconn.edu/
Ducks Unlimited	http://www.ducks.org
Connecticut Environmental Conditions Online (CT ECO)	http://www.cteco.uconn.edu/
Environmental Protection Agency	http://www.epa.gov
EPA Long Island Sound Program	http://www2.epa.gov/aboutepa/epa-region-1-new-england and http://water.epa.gov/type/oceb/nep/programs_lis.cfm
Essex Land Trust	http://www.essexlandtrust.org
Farmington River Watershed Association	http://frwa.org/
Golden Hill Paugussett Tribe	http://www.goldenhill-landclaims.itgo.com/
Greenwich Land Trust	http://www.gltrust.org
Green Valley Institute	http://www.greenvalleyinstitute.org/
Important Bird Areas (IBA) Program	http://www.audubon.org/bird/iba
Association of Fish and Wildlife Agencies (AFWA)	http://www.fishwildlife.org/
Society for Marine Mammology	http://www.marinemammalscience.org/
International Shorebird Survey	http://www.pwrc.usgs.gov/iss/iss.html https://www.manomet.org/program/shorebird-recovery-project/international-shorebird-survey-iss
International Union for Conservation of Nature (IUCN)	http://www.iucn.org/
Invasive Plant Atlas of New England (IPANE)	http://www.eddmaps.org/ipane/
Long Island Sound Environmental Studies Program, USGS	http://woodshole.er.usgs.gov/project-pages/longislandsound/index.htm
Long Island Sound Soundkeeper	http://www.soundkeeper.org/
Long Island Sound Study	http://www.longislandsoundstudy.net/
Map and Geographic Information Center (MAGIC)	http://magic.lib.uconn.edu/
Mashantucket Pequot Tribal Nation	http://www.pequotmuseum.org/default.aspx
Mid-Atlantic Fishery Management Council	http://www.mafmc.org/
Mohegan Tribal Nation	http://www.mohegan.nsn.us
Mystic Aquarium Institute for Exploration	http://www.mysticaquarium.org
National Audubon Society	http://www.audubon.org
National Estuarine Research Reserve System	http://nerrs.noaa.gov
National Marine Fisheries Service	http://www.nmfs.noaa.gov/

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Organization/Group/Source	Website
National Oceanic and Atmospheric Administration (NOAA)	http://www.noaa.gov
NOAA Office of Coastal Management	http://coast.noaa.gov/
NOAA Office of Response and Restoration	http://response.restoration.noaa.gov
National Databases	http://www.pwrc.usgs.gov/birds/
National Park Service	http://www.nps.gov
National Water Quality Assessment Program, USGS	http://water.usgs.gov/nawqa/
Native American Fish and Wildlife Society	http://www.nafws.org/
Natural Resources Conservation Service	http://www.nrcs.usda.gov
National Resources Inventory Program	http://www.nrcs.usda.gov/technical/NRI/
NatureServe	http://www.natureserve.org/
New England Fishery Management Council	http://www.nefmc.org/
New Hartford Land Trust	http://www.newhartfordlandtrust.org/Index.html
North American Bat Conservation Partnership (NABCP)	http://www.sbdn.org/batworkinggroups.html
Northern Prairie Wildlife Research Center	http://www.npwrc.usgs.gov/
Old Lyme Conservation Trust	http://www.oldlymelandtrust.org/
Partners in Amphibian and Reptile Conservation (PARC)	http://www.parcplace.org
Partners In Flight	http://www.partnersinflight.org/
Patuxent Wildlife Research Center	http://www.pwrc.usgs.gov/
Paucatuck Eastern Pequot Indian Tribal Nation	http://www.easternpequottribalnation.com/
Pew Oceans Commission	http://www.pewoceans.org
Quinebaug-Shetucket Heritage Corridor, Inc. (QSHC)	http://www.thelastgreenvalley.org
Regional Planning Association (RPA)	http://www.rpa.org
Rivers Alliance	http://www.riversalliance.org
Roxbury Land Trust	http://www.roxburylandtrust.org/
Ruffed Grouse Society	http://www.ruffedgrousesociety.org
Save the Sound	http://www.ctenvironment.org/index.htm
Schaghticoke Tribe	http://www.schaghticoke.com
Silvio O. Conte National Wildlife Refuge	http://www.fws.gov/refuge/Silvio_O_Conte/
Southern New England-New York Bight Coastal Program, USFWS	http://www.fws.gov/r5snep/

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Organization/Group/Source	Website
Sportsmens Land Trust	http://www.sportslandtrust.org/
Trout Unlimited	http://www.tu.org/index.asp
Trust for Public Land	http://www.tpl.org
U.S. Army Corps of Engineers, New England District	http://www.nae.usace.army.mil
U.S. Bureau of Indian Affairs	http://www.bia.gov/
U.S. Department of Agriculture	http://www.usda.gov
U.S. Fish and Wildlife Service (USFWS)	http://www.fws.gov
USFWS Fisheries Program	http://www.fws.gov/r5crc/ http://www.fws.gov/fisheries/
USFWS Migratory Birds Program	http://www.fws.gov/migratorybirds/
USFWS National Wetlands Inventory	http://www.fws.gov/wetlands/
U.S. Forest Service (USFS)	http://www.fs.fed.us/
USFS Forest Inventory and Analysis Program	http://www.fs.fed.us/ne/fia/states/ct/index.html
U.S. Geological Survey (USGS)	http://www.usgs.gov
Ecosystems Mission Area	http://www.usgs.gov/ecosystems/about.html
USGS Water Resources Division	http://ct.water.usgs.gov/
University of Connecticut (UCONN) CLEAR Program	http://clear.uconn.edu
UCONN Biological Collections	http://www.eeb.uconn.edu/department/collections/
UCONN Center for Conservation and Biodiversity	http://www.eeb.uconn.edu/department/bioconctr/
UCONN NEMO Program	http://nemo.uconn.edu/
UCONN Wildlife and Fisheries Conservation Research Center	http://wfcc.uconn.edu/
Xerces Society	http://www.xerces.org

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APPENDIX 1b: REGIONAL SPECIES OF GREATEST CONSERVATION NEED

The Northeast Fish and Wildlife Diversity Technical Committee (NEFWBTC) evaluated a total of 1,260 species of seven major taxonomic groups (mammals, birds, reptiles, amphibians, fish, tiger beetles, and freshwater mussels) with almost 30 percent (367 species, listed below) identified as Regional Species of Greatest Conservation Need (RSGCN) based on a species’ conservation status and listing in State Wildlife Action Plans (SWAPs), as well as the percentage of a species’ range that occurs in the Northeast (NEFWBTC 2013).

Scientific Name [B,M,W,A,E]=[Breeding, Migratory, Wintering, Atlantic, Eastern population]	Common Name	RSGCN Responsibility	RSGCN Concern	Expected States	State Data Coverage	Data QC Survey %Confident	Federal Status
RSGCN List: Mammals							
<i>Microtus chrotorrhinus carolinensis</i>	Southern Rock Vole	High	V. High	3	100%	53%	—
<i>Myotis leibii</i>	Eastern Small-footed Myotis	High	V. High	11	91%	78%	—
<i>Neotoma magister</i>	Allegheny Woodrat	High	V. High	8	75%	80%	—
<i>Sciurus niger cinereus</i>	Delmarva Fox Squirrel	High	V. High	4	75%	74%	EE (PDL)
<i>Sorex dispar</i>	Long-tailed Shrew	High	V. High	10	70%	52%	—
<i>Sorex palustris punctulatus</i>	Southern Water Shrew	High	V. High	4	100%	50%	—
<i>Sylvilagus transitionalis</i>	New England Cottontail	High	V. High	8	75%	81%	—
<i>Sorex palustris albibarbis</i>	American Water Shrew (Eastern)	High	High	9	0%	0%	—
<i>Sorex cinereus fontinalis</i>	Maryland Shrew	High	Mod.	3	0%	0%	—
<i>Sorex fumeus</i>	Smoky Shrew	High	Mod.	12	17%	64%	—
<i>Condylura cristata</i>	Star-nosed Mole	High	Low	14	7%	71%	—
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse	High	Low	12	8%	75%	—
<i>Parascalops breweri</i>	Hairy-tailed Mole	High	Low	11	9%	70%	—
<i>Corynorhinus townsendii virginianus</i>	Virginia Big-eared Bat	High	Limited	2	100%	67%	E
<i>Glaucomys sabrinus fuscus</i>	Virginia Northern Flying Squirrel	High	Limited	2	100%	58%	DL
<i>Microtus breweri</i>	Beach Vole	High	Limited	1	100%	44%	—
<i>Microtus pennsylvanicus provectus</i>	Block Island Meadow Vole	High	Limited	1	0%	0%	—
<i>Microtus pennsylvanicus shattucki</i>	Penobscot Meadow Vole	High	Limited	1	0%	0%	—
<i>Peromyscus leucopus easti</i>	Pungo White-footed Deermouse	High	Limited	1	0%	0%	—

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Scientific Name [B,M,W,A,E]=[Breeding, Migratory, Wintering, Atlantic, Eastern population]	Common Name	RSGCN Responsibility	RSGCN Concern	Expected States	State Data Coverage	Data QC Survey %Confident	Federal Status
<i>Sorex longirostris fisheri</i>	Dismal Swamp Southeastern Shrew	High	Limited	1	100%	56%	—
<i>Eptesicus fuscus</i>	Big Brown Bat	Low	High	14	29%	71%	—
<i>Lynx rufus</i>	Bobcat	Low	High	14	21%	50%	—
<i>Martes americana</i>	American Marten	Low	High	8	38%	50%	R
<i>Phocoena phocoena phocoena</i>	Harbor Porpoise	Low	High	5	40%	53%	—
<i>Glaucomys sabrinus coloratus</i>	Carolina Northern Flying Squirrel	Low	Limited	1	100%	44%	E
<i>Myotis grisescens</i>	Gray Myotis	Low	Limited	1	100%	56%	E
<i>Balaenoptera borealis</i>	Sei Whale	Low	V. High	4	0%	0%	E
<i>Balaenoptera musculus</i>	Blue Whale	Low	V. High	3	0%	0%	E
<i>Balaenoptera physalus</i>	Fin Whale	Low	V. High	6	33%	59%	E
<i>Cryptotis parva</i>	North American Least Shrew	Low	V. High	9	44%	68%	—
<i>Eubalaena glacialis</i>	North Atlantic Right Whale	Low	V. High	5	60%	67%	E
<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Low	V. High	13	23%	70%	—
<i>Lasiurus borealis</i>	Eastern Red Bat	Low	V. High	14	21%	68%	R
<i>Lasiurus cinereus</i>	Hoary Bat	Low	V. High	13	38%	67%	—
<i>Lynx canadensis</i>	Canadian Lynx	Low	V. High	6	33%	73%	—
<i>Megaptera novaeangliae</i>	Humpback Whale	Low	V. High	5	40%	64%	E
<i>Mustela nivalis</i>	Least Weasel	Low	V. High	5	80%	56%	—
<i>Myotis lucifugus</i>	Little Brown Myotis	Low	V. High	14	36%	61%	R
<i>Myotis septentrionalis</i>	Northern Myotis	Low	V. High	14	43%	67%	—
<i>Myotis sodalis</i>	Indiana Myotis	Low	V. High	9	78%	76%	E
<i>Perimyotis subflavus</i>	Tri-colored Bat	Low	V. High	14	36%	53%	R
<i>Physeter macrocephalus</i>	Sperm Whale	Low	V. High	2	0%	0%	E
<i>Spilogale putorius</i>	Eastern Spotted Skunk	Low	V. High	4	100%	71%	—
<i>Sylvilagus obscurus</i>	Appalachian Cottontail	Low	V. High	4	100%	65%	—
<i>Synaptomys cooperi</i>	Southern Bog Lemming	Low	V. High	13	46%	63%	—

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RSGCN List: Birds							
<i>Ammodramus caudacutus</i>	Saltmarsh Sparrow	High	V. High	10	60%	85%	R
<i>Calidris canutus [M]</i>	Red Knot	High	V. High	8	38%	82%	PT,R
<i>Catharus bicknelli</i>	Bicknell's Thrush	High	V. High	6	83%	93%	PE,R
<i>Charadrius melodus [A]</i>	Piping Plover	High	V. High	11	82%	91%	ET,R
<i>Falco peregrinus [E]</i>	Peregrine Falcon	High	V. High	14	71%	100%	—
<i>Hyalocichla mustelina</i>	Wood Thrush	High	V. High	14	50%	91%	R
<i>Laterallus jamaicensis</i>	Black Rail	High	V. High	7	86%	85%	—
<i>Setophaga cerulea</i>	Cerulean Warbler	High	V. High	13	54%	78%	—
<i>Sterna dougallii</i>	Roseate Tern	High	V. High	9	67%	86%	ET
<i>Vermivora cyanoptera</i>	Blue-winged Warbler	High	V. High	14	50%	77%	R
<i>Aquila chrysaetos [B,W]</i>	Golden Eagle	High	High	12	83%	87%	—
<i>Piranga olivacea</i>	Scarlet Tanager	High	High	14	36%	92%	—
<i>Passerculus sandwichensis princeps [M,W]</i>	Ipswich Sparrow	High	Low	2	100%	55%	—
<i>Melospiza georgiana nigrescens</i>	Coastal Plain Swamp Sparrow	High	Limited	3	0%	0%	—
<i>Accipiter gentilis</i>	Northern Goshawk	Low	V. High	11	55%	79%	—
<i>Ammodramus henslowii</i>	Henslow's Sparrow	Low	V. High	13	69%	71%	—
<i>Ammodramus maritimus</i>	Seaside Sparrow	Low	V. High	10	40%	92%	—
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	Low	V. High	14	71%	93%	R
<i>Anas rubripes [B,W]</i>	American Black Duck	Low	V. High	14	21%	93%	R
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	Low	V. High	14	36%	81%	R
<i>Arenaria interpres [M,W]</i>	Ruddy Turnstone	Low	V. High	10	10%	91%	—
<i>Asio flammeus</i>	Short-eared Owl	Low	V. High	13	77%	79%	—
<i>Asio otus</i>	Long-eared Owl	Low	V. High	14	50%	90%	—
<i>Bartramia longicauda</i>	Upland Sandpiper	Low	V. High	14	93%	86%	R
<i>Botaurus lentiginosus</i>	American Bittern	Low	V. High	14	71%	85%	R

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<i>Bubulcus ibis</i>	Cattle Egret	Low	V. High	—	—	—	—
<i>Calidris maritima [M,W]</i>	Purple Sandpiper	Low	V. High	8	25%	89%	R
<i>Cardellina canadensis</i>	Canada Warbler	Low	V. High	13	23%	88%	—
<i>Chlidonias niger</i>	Black Tern	Low	V. High	—	—	—	—
<i>Chordeiles minor</i>	Common Nighthawk	Low	V. High	14	64%	83%	R
<i>Circus cyaneus</i>	Northern Harrier	Low	V. High	14	86%	95%	—
<i>Cistothorus platensis</i>	Sedge Wren	Low	V. High	13	85%	77%	R
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	Low	V. High	14	36%	90%	—
<i>Colinus virginianus</i>	Northern Bobwhite	Low	V. High	12	25%	87%	—
<i>Contopus cooperi</i>	Olive-sided Flycatcher	Low	V. High	12	33%	62%	—
<i>Dolichonyx oryzivorus</i>	Bobolink	Low	V. High	14	50%	83%	R
<i>Egretta caerulea</i>	Little Blue Heron	Low	V. High	10	70%	84%	—
<i>Egretta thula</i>	Snowy Egret	Low	V. High	12	67%	82%	R
<i>Egretta tricolor</i>	Tricolored Heron	Low	V. High	—	—	—	—
<i>Euphagus carolinus [B,W]</i>	Rusty Blackbird	Low	V. High	11	45%	80%	—
<i>Falcipecten canadensis</i>	Spruce Grouse	Low	V. High	—	—	—	R
<i>Gavia immer</i>	Common Loon	Low	V. High	—	—	—	R
<i>Gelochelidon nilotica</i>	Gull-billed Tern	Low	V. High	—	—	—	—
<i>Geothlypis formosa</i>	Kentucky Warbler	Low	V. High	10	50%	70%	R
<i>Haematopus palliatus</i>	American Oystercatcher	Low	V. High	9	44%	86%	R
<i>Helminthophila vermivorum</i>	Worm-eating Warbler	Low	V. High	11	45%	89%	R
<i>Histrionicus histrionicus [E,W]</i>	Harlequin Duck	Low	V. High	—	—	—	—
<i>Ixobrychus exilis</i>	Least Bittern	Low	V. High	14	86%	89%	R
<i>Lanius ludovicianus</i>	Loggerhead Shrike	Low	V. High	12	58%	65%	—
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	Low	V. High	—	—	—	—
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	Low	V. High	—	—	—	—

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<i>Numenius phaeopus [M]</i>	Whimbrel	Low	V. High	—	—	—	—
<i>Nyctanassa violacea</i>	Yellow-crowned Night-Heron	Low	V. High	11	64%	93%	—
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron	Low	V. High	14	57%	88%	—
<i>Parkesia motacilla</i>	Louisiana Waterthrush	Low	V. High	14	14%	87%	R
<i>Picoides dorsalis</i>	American Three-toed Woodpecker	Low	V. High	—	—	—	—
<i>Pipilo erythrophthalmus</i>	Eastern Towhee	Low	V. High	14	14%	93%	R
<i>Podilymbus podiceps</i>	Pied-billed Grebe	Low	V. High	14	79%	87%	—
<i>Pooecetes gramineus</i>	Vesper Sparrow	Low	V. High	14	57%	80%	—
<i>Porzana carolina</i>	Sora	Low	V. High	14	64%	72%	—
<i>Protonotaria citrea</i>	Prothonotary Warbler	Low	V. High	10	50%	82%	R
<i>Rallus elegans</i>	King Rail	Low	V. High	13	54%	84%	R
<i>Rynchops niger</i>	Black Skimmer	Low	V. High	—	—	—	R
<i>Scolopax minor</i>	American Woodcock	Low	V. High	—	—	—	R
<i>Setophaga castanea</i>	Bay-breasted Warbler	Low	V. High	—	—	—	—
<i>Setophaga discolor</i>	Prairie Warbler	Low	V. High	14	21%	88%	R
<i>Spizella pusilla</i>	Field Sparrow	Low	V. High	14	36%	83%	R
<i>Sterna fosteri</i>	Forster's Tern	Low	V. High	—	—	—	—
<i>Sterna hirundo</i>	Common Tern	Low	V. High	13	62%	90%	R
<i>Sterna paradisaea</i>	Arctic Tern	Low	V. High	—	—	—	—
<i>Sternula antillarum</i>	Least Tern	Low	V. High	11	82%	90%	R
<i>Sturnella magna</i>	Eastern Meadowlark	Low	V. High	14	43%	86%	R
<i>Thryomanes bewickii</i>	Bewick's Wren	Low	V. High	5	20%	100%	—
<i>Toxostoma rufum</i>	Brown Thrasher	Low	V. High	14	43%	92%	R
<i>Tringa semipalmata</i>	Willet	Low	V. High	11	18%	83%	R
<i>Tyto alba</i>	Barn Owl	Low	V. High	12	67%	88%	—
<i>Vermivora chrysoptera</i>	Golden-winged Warbler	Low	V. High	12	75%	83%	PE

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<i>Antrostomus carolinensis</i>	Chuck-will's-widow	Low	High	—	—	—	—
<i>Bonasa umbellus</i>	Ruffed Grouse	Low	High	14	14%	92%	R
<i>Buteo lineatus</i>	Red-shouldered Hawk	Low	High	14	50%	83%	R
<i>Buteo platypterus</i>	Broad-winged Hawk	Low	High	14	43%	88%	—
<i>Calidris alba</i> [M,W]	Sanderling	Low	High	9	33%	88%	R
<i>Calidris pusilla</i> [M]	Semipalmated Sandpiper	Low	High	8	25%	85%	R
<i>Catharus fuscescens</i>	Veery	Low	High	—	—	—	—
<i>Certhia familiaris</i>	Brown Creeper	Low	High	—	—	—	—
<i>Chaetura pelagica</i>	Chimney Swift	Low	High	14	21%	88%	—
<i>Cistothorus palustris</i>	Marsh Wren	Low	High	14	36%	81%	R
<i>Coturnicops noeboracensis</i> [M]	Yellow Rail	Low	High	—	—	—	—
<i>Empidonax traillii</i>	Willow Flycatcher	Low	High	13	8%	93%	R
<i>Empidonax virescens</i>	Acadian Flycatcher	Low	High	—	—	—	—
<i>Eremophila alpestris</i>	Horned Lark	Low	High	—	—	—	—
<i>Falco sparverius</i>	American Kestrel	Low	High	14	36%	86%	—
<i>Gallinago delicata</i>	Wilson's Snipe	Low	High	—	—	—	—
<i>Gallinula galeata</i>	Common Gallinule	Low	High	14	50%	92%	—
<i>Icteria virens</i>	Yellow-breasted Chat	Low	High	—	—	—	—
<i>Limosa fedua</i> [M]	Marbled Godwit	Low	High	—	—	—	—
<i>Mniotilta varia</i>	Black-and-white Warbler	Low	High	—	—	—	R
<i>Phalaropus tricolor</i>	Wilson's Phalarope	Low	High	—	—	—	—
<i>Piranga rubra</i>	Summer Tanager	Low	High	—	—	—	—
<i>Rallus longirostris</i>	Clapper Rail	Low	High	—	—	—	R
<i>Riparia riparia</i>	Bank Swallow	Low	High	14	29%	76%	R
<i>Setophaga americana</i>	Northern Parula	Low	High	14	36%	91%	—
<i>Setophaga caerulescens</i>	Black-throated Blue Warbler	Low	High	13	31%	88%	—

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<i>Setophaga citrina</i>	Hooded Warbler	Low	High	—	—	—	—
<i>Setophaga fusca</i>	Blackburnian Warbler	Low	High	—	—	—	R
<i>Setophaga tigrina</i>	Cape May Warbler	Low	High	—	—	—	—
<i>Setophaga virens</i>	Black-throated Green Warbler	Low	High	—	—	—	—
<i>Somateria mollissima</i>	Common Eider	Low	High	—	—	—	R
<i>Spiza americana</i>	Dickcissel	Low	High	—	—	—	—
<i>Vireo flavifrons</i>	Yellow-throated Vireo	Low	High	14	21%	92%	—
RSGCN List: Reptiles and Amphibians							
<i>Glyptemys insculpta</i>	Wood Turtle	High	V. High	13	92%	78%	R
<i>Glyptemys muhlenbergii</i>	Bog Turtle	High	V. High	9	67%	84%	TS,R
<i>Malaclemys terrapin terrapin</i>	Northern Diamondback Terrapin	High	V. High	7	14%	0%	E,R
<i>Plestiodon anthracinus anthracinus</i>	Northern Coal Skink	High	V. High	4	75%	50%	—
<i>Coluber constrictor constrictor</i>	Northern Black Racer	High	High	6	17%	0%	—
<i>Eurycea longicauda</i>	Longtail Salamander	High	High	8	38%	79%	—
<i>Pseudacris kalmi</i>	New Jersey Chorus Frog	High	High	5	40%	61%	—
<i>Pseudemys rubriventris</i>	Northern Red-bellied Cooter	High	High	9	44%	68%	—
<i>Pseudotriton ruber</i>	Red Salamander	High	High	8	38%	74%	—
<i>Desmognathus monticola</i>	Seal Salamander	High	Mod.	4	25%	69%	—
<i>Gyrinophilus porphyriticus porphyriticus</i>	Northern Spring Salamander	High	Mod.	6	33%	67%	—
<i>Plethodon hoffmani</i>	Valley and Ridge Salamander	High	Mod.	4	25%	60%	—
<i>Desmognathus fuscus</i>	Northern Dusky Salamander	High	Low	14	14%	64%	—
<i>Desmognathus ochrophaeus</i>	Allegheny Mountain Dusky Salamander	High	Low	7	57%	50%	—
<i>Diadophis punctatus edwardsii</i>	Northern Ring-necked Snake	High	Low	6	33%	69%	—
<i>Eurycea bislineata</i>	Northern Two-lined Salamander	High	Low	14	21%	81%	—
<i>Gyrinophilus porphyriticus</i>	Spring Salamander	High	low	12	25%	100%	R
<i>Gyrinophilus porphyriticus duryi</i>	Kentucky Spring Salamander	High	Low	2	0%	0%	—

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<i>Plethodon cylindraceus</i>	White-spotted Slimy Salamander	High	low	2	50%	70%	—
<i>Plethodon glutinosus</i>	Slimy Salamander	High	Low	8	50%	56%	—
<i>Plethodon punctatus</i>	White-spotted Salamander	High	Low	2	100%	58%	—
<i>Plethodon wehrlei</i>	Wehrle's Salamander	High	Low	5	40%	64%	—
<i>Storeria dekayi dekayi</i>	Brownsnake	High	Low	14	21%	64%	—
<i>Thamnophis brachystoma</i>	Short-headed Gartersnake	High	Low	2	50%	58%	—
<i>Desmognathus orestes</i>	Blue Ridge Dusky Salamander	High	Limited	1	100%	56%	—
<i>Gyrinophilus subterraneus</i>	West Virginia Spring Salamander	High	Limited	1	100%	64%	—
<i>Plethodon hubrichti</i>	Peaks of Otter Salamander	High	Limited	1	100%	56%	—
<i>Plethodon kentucki</i>	Cumberland Plateau Salamander	High	Limited	2	50%	56%	—
<i>Plethodon nettingi</i>	Cheat Mountain Salamander	High	Limited	1	100%	64%	T
<i>Plethodon shenandoah</i>	Shenandoah Salamander	High	Limited	1	100%	56%	E
<i>Plethodon virginia</i>	Shenandoah Mountain Salamander	High	Limited	2	0%	0%	—
<i>Virginia pulchra</i>	Mountain Earthsnake	High	Limited	4	100%	68%	—
<i>Ambystoma laterale & jeffersonianum</i>	Blue-spotted Salamander complex	Low	V. High	8	88%	79%	—
<i>Ambystoma tigrinum</i>	Tiger Salamander	Low	V. High	6	67%	70%	—
<i>Aneides aeneus</i>	Green Salamander	Low	V. High	4	100%	61%	—
<i>Caretta caretta</i>	Loggerhead	Low	V. High	9	67%	81%	ET,R
<i>Cemophora coccinea copei</i>	Northern Scarletsnake	Low	V. High	5	40%	67%	—
<i>Chelonia mydas</i>	Green Turtle	Low	V. High	9	56%	64%	ET
<i>Clemmys guttata</i>	Spotted Turtle	Low	V. High	14	79%	77%	R
<i>Crotalus horridus</i>	Timber Rattlesnake	Low	V. High	13	54%	80%	—
<i>Cryptobranchus alleganiensis</i>	Eastern Hellbender	Low	V. High	5	100%	78%	—
<i>Dermodochelys coriacea</i>	Leatherback	Low	V. High	9	44%	65%	E
<i>Emydoidea blandingii</i>	Blanding's Turtle	Low	V. High	5	100%	77%	—
<i>Eretmochelys imbricata imbricata</i>	Atlantic Hawksbill	Low	V. High	4	0%	0%	E

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<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	Low	V. High	12	50%	72%	R
<i>Lepidochelys kempii</i>	Atlantic Ridley Sea Turtle	Low	V. High	10	50%	64%	E
<i>Lithobates virgatipes</i>	Carpenter Frog	Low	V. High	4	100%	71%	—
<i>Pantherophis guttatus</i>	Red Cornsnake	Low	V. High	5	60%	67%	—
<i>Pseudacris brachyphona</i>	Mountain Chorus Frog	Low	V. High	4	75%	73%	—
<i>Pseudotriton montanus montanus</i>	Eastern Mud Salamander	Low	V. High	3	100%	55%	—
<i>Regina septemvittata</i>	Queen Snake	Low	V. High	8	63%	68%	—
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	Low	V. High	11	55%	83%	—
<i>Terrapene carolina carolina</i>	Eastern Box Turtle	Low	V. High	6	83%	72%	R
<i>Thamnophis sauritus</i>	Eastern Ribbonsnake	Low	V. High	14	50%	100%	—
<i>Acris crepitans</i>	Northern Cricket Frog	Low	High	8	50%	74%	—
<i>Agkistrodon contortrix</i>	Copperhead	Low	High	10	70%	70%	—
<i>Ambystoma opacum</i>	Marbled Salamander	Low	High	12	58%	70%	R
<i>Anaxyrus fowleri</i>	Fowler's Toad	Low	High	13	54%	70%	—
<i>Apalone spinifera spinifera</i>	Spiny Softshell	Low	High	7	57%	67%	—
<i>Graptemys geographica</i>	Common Map Turtle	Low	High	7	100%	60%	—
<i>Liochlorophis vernalis</i>	Smooth Green Snake	Low	High	12	58%	71%	—
<i>Lithobates pipiens</i>	Northern Leopard Frog	Low	High	11	45%	70%	—
<i>Necturus maculosus</i>	Mudpuppy	Low	High	8	75%	60%	—
<i>Opheodrys aestivus</i>	Rough Greensnake	Low	High	7	71%	76%	—
<i>Plestiodon laticeps</i>	Broad-headed Skink	Low	High	6	33%	64%	—
RSGCN List: Fish							
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	High	V. High	12	58%	84%	E,R
<i>Acipenser oxyrinchus oxyrinchus</i>	Atlantic Sturgeon	High	V. High	12	67%	71%	—
<i>Ammodytes americanus</i>	American Sand Lance	High	V. High	2	0%	0%	—
<i>Enneacanthus obesus</i>	Banded Sunfish	High	V. High	11	64%	78%	—

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<i>Fundulus luciae</i>	Spotfin Killifish	High	V. High	6	50%	70%	—
<i>Ichthyomyzon greeleyi</i>	Mountain Brook Lamprey	High	V. High	4	75%	88%	—
<i>Notropis bifrenatus</i>	Bridle Shiner	High	V. High	13	54%	95%	—
<i>Percina macrocephala</i>	Longhead Darter	High	V. High	3	67%	87%	—
<i>Alosa aestivalis</i>	Blueback Herring	High	High	13	23%	90%	SC
<i>Alosa mediocris</i>	Hickory Shad	High	High	10	30%	67%	—
<i>Alosa pseudoharengus</i>	Alewife	High	High	12	42%	95%	SC,R
<i>Etheostoma vitreum</i>	Glassy Darter	High	High	4	75%	92%	—
<i>Exoglossum laurae</i>	Tonguetied Minnow	High	High	4	50%	83%	—
<i>Notropis amoenus</i>	Comely Shiner	High	High	8	38%	93%	—
<i>Percina notogramma</i>	Stripeback Darter	High	High	4	50%	92%	—
<i>Percina peltata</i>	Shield Darter	High	High	8	25%	93%	—
<i>Apeltes quadracus</i>	Fourspine Stickleback	High	Mod.	12	42%	64%	—
<i>Cottus girardi</i>	Potomac Sculpin	High	Mod.	4	50%	94%	—
<i>Dasyatis centroura</i>	Roughtail Stingray	High	Mod.	0	0%	0%	—
<i>Etheostoma variatum</i>	Variegata Darter	High	Mod.	4	50%	83%	—
<i>Leucoraja garmani</i>	Rosette Skate	High	Mod.	0	0%	0%	—
<i>Microgadus tomcod</i>	Atlantic Tomcod	High	Mod.	6	0%	0%	—
<i>Notropis procne</i>	Swallowtail Shiner	High	Mod.	8	25%	95%	—
<i>Noturus flavus</i>	Stonecat	High	Mod.	8	25%	93%	—
<i>Opsanus tau</i>	Oyster Toadfish	High	Mod.	1	0%	0%	—
<i>Percina oxyrhynchus</i>	Sharpnose Darter	High	Mod.	3	33%	89%	—
<i>Pseudopleuronectes americanus</i>	Winter Flounder	High	Mod.	2	0%	0%	—
<i>Tautoglabrus adspersus</i>	Cunner	High	Mod.	2	0%	0%	—
<i>Alopias vulpinus</i>	Common Thresher Shark	High	Low	0	0%	0%	—
<i>Amblyraja radiata</i>	Thorny Skate	High	Low	0	0%	0%	SC

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<i>Clupea harengus</i>	Atlantic Herring	High	Low	2	0%	0%	—
<i>Cottus caeruleomentum</i>	Blue Ridge Sculpin	High	Low	5	40%	87%	—
<i>Cottus cognatus</i>	Slimy Sculpin	High	Low	3	33%	83%	—
<i>Cyprinella analostana</i>	Satinfin Shiner	High	Low	8	25%	94%	—
<i>Exoglossum maxillingua</i>	Cutlip Minnow	High	Low	10	30%	95%	—
<i>Fundulus heteroclitus</i>	Mummichog	High	Low	12	8%	94%	—
<i>Fundulus majalis</i>	Striped Killifish	High	Low	4	25%	86%	—
<i>Hemitripterus americanus</i>	Sea Raven	High	Low	1	0%	0%	—
<i>Hybognathus regius</i>	Eastern Silvery Minnow	High	Low	11	45%	94%	—
<i>Isurus oxyrinchus</i>	Shortfin Mako	High	Low	0	0%	0%	—
<i>Lamna nasus</i>	Porbeagle	High	Low	0	0%	0%	SC
<i>Lepomis auritus</i>	Redbreast Sunfish	High	Low	14	14%	96%	—
<i>Leucoraja erinacea</i>	Little Skate	High	Low	1	0%	0%	—
<i>Leucoraja ocellata</i>	Winter Skate	High	Low	1	0%	0%	—
<i>Lophius americanus</i>	Goosefish	High	Low	2	0%	0%	—
<i>Malacoraja senta</i>	Smooth Skate	High	Low	0	0%	0%	—
<i>Menidia menidia</i>	Atlantic Silverside	High	Low	5	40%	67%	—
<i>Merluccius bilinearis</i>	Silver Hake	High	Low	2	0%	0%	—
<i>Paralichthys oblongus</i>	Fourspot Flounder	High	Low	1	0%	0%	—
<i>Peprilus triacanthus</i>	Butterfish	High	Low	2	0%	0%	—
<i>Prionace glauca</i>	Blue Shark	High	Low	0	0%	0%	—
<i>Prionotus carolinus</i>	Northern Searobin	High	Low	2	0%	0%	—
<i>Prionotus evolans</i>	Striped Searobin	High	Low	2	0%	0%	—
<i>Scomber scombrus</i>	Atlantic Mackerel	High	Low	2	0%	0%	—
<i>Scophthalmus aquosus</i>	Windowpane	High	Low	2	0%	0%	—
<i>Semotilus corporalis</i>	Fallfish	High	Low	14	29%	96%	—

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<i>Sphyrna zygaena</i>	Smooth Hammerhead	High	Low	0	0%	0%	—
<i>Squalus acanthias</i>	Spiny Dogfish	High	Low	2	0%	0%	—
<i>Tautoga onitis</i>	Tautog	High	Low	3	0%	0%	—
<i>Umbra pygmaea</i>	Eastern Mudminnow	High	Low	7	29%	88%	—
<i>Urophycis chuss</i>	Red Hake	High	Low	2	0%	0%	—
<i>Zoarces americanus</i>	Ocean Pout	High	Low	1	0%	0%	—
<i>Dipturus laevis</i>	Barndoor Skate	High	Limited	1	0%	0%	—
<i>Myoxocephalus octodecemspinosus</i>	Longhorn Sculpin	High	Limited	2	0%	0%	—
<i>Sphoeroides maculatus</i>	Northern Puffer	High	Limited	2	0%	0%	—
<i>Squatina dumeril</i>	Atlantic Angel Shark	High	Limited	2	0%	0%	—
<i>Acipenser fulvescens</i>	Lake Sturgeon	Low	V. High	4	75%	94%	—
<i>Alosa sapidissima</i>	American Shad	Low	V. High	13	23%	88%	R
<i>Ammocrypta pellucida</i>	Eastern Sand Darter	Low	V. High	4	75%	81%	—
<i>Anguilla rostrata</i>	American Eel	Low	V. High	14	36%	96%	R
<i>Enneacanthus chaetodon</i>	Blackbanded Sunfish	Low	V. High	5	80%	80%	—
<i>Erimystax dissimilis</i>	Streamline Chub	Low	V. High	4	75%	73%	—
<i>Etheostoma camurum</i>	Bluebreast Darter	Low	V. High	4	75%	94%	—
<i>Etheostoma maculatum</i>	Spotted Darter	Low	V. High	3	67%	93%	—
<i>Etheostoma tippecanoe</i>	Tippecanoe Darter	Low	V. High	3	67%	91%	—
<i>Hiodon tergisus</i>	Mooneye	Low	V. High	4	50%	73%	—
<i>Ichthyomyzon bdellium</i>	Ohio Lamprey	Low	V. High	4	75%	88%	—
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	Low	V. High	4	75%	81%	—
<i>Lampetra aepyptera</i>	Least Brook Lamprey	Low	V. High	5	60%	94%	—
<i>Lepomis gulosus</i>	Warmouth	Low	V. High	4	50%	95%	—
<i>Lethenteron appendix</i>	American Brook Lamprey	Low	V. High	13	54%	92%	—
<i>Moxostoma carinatum</i>	River Redhorse	Low	V. High	4	75%	81%	—

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<i>Notropis chalybaeus</i>	Ironcolor Shiner	Low	V. High	6	100%	75%	—
<i>Noturus insignis</i>	Margined Madtom	Low	V. High	9	11%	92%	R
<i>Percina copelandi</i>	Channel Darter	Low	V. High	5	80%	82%	—
<i>Percina evides</i>	Gilt Darter	Low	V. High	4	75%	81%	—
<i>Polyodon spathula</i>	Paddlefish	Low	V. High	4	50%	70%	—
<i>Prosopium cylindraceum</i>	Round Whitefish	Low	V. High	5	80%	84%	—
<i>Salmo salar</i>	Atlantic Salmon	Low	V. High	7	14%	93%	R
<i>Salvelinus fontinalis</i>	Brook Trout	Low	V. High	12	33%	96%	R
<i>Acantharchus pomotis</i>	Mud Sunfish	Low	High	6	67%	68%	—
<i>Salvelinus alpinus oquassa</i>	Arctic Char			3	NA	NA	—
<i>Ameiurus melas</i>	Black Bullhead	Low	High	5	40%	75%	—
<i>Amia calva</i>	Bowfin	Low	High	5	40%	91%	—
<i>Catostomus catostomus</i>	Longnose Sucker	Low	High	9	67%	86%	—
<i>Coregonus clupeaformis</i>	Lake Whitefish	Low	High	5	40%	60%	—
<i>Cottus cognatus</i>	Slimy Sculpin	Low	High	10	30%	83%	R
<i>Etheostoma fusiforme</i>	Swamp Darter	Low	High	12	50%	79%	—
<i>Ichthyomyzon unicuspis</i>	Silver Lamprey	Low	High	4	50%	75%	—
<i>Lota lota</i>	Burbot	Low	High	7	71%	94%	—
<i>Salvelinus namaycush</i>	Lake Trout	Low	High	5	0%	0%	—
<i>Sander canadensis</i>	Sauger	Low	High	5	40%	92%	—
RSGCN List: Tiger Beetles							
<i>Cicindela ancocisconensis</i>	Appalachian Tiger Beetle	High	High	9	78%	76%	—
<i>Cicindela marginipennis</i>	Cobblestone Tiger Beetle	High	High	8	88%	83%	—
<i>Cicindela patruela consentanea</i>	Northern Barrens Tiger Beetle	High	High	2	100%	81%	—
<i>Cicindela dorsalis dorsalis</i>	Northeastern Beach Tiger Beetle	High	Very High	7	86%	82%	T
<i>Cicindela puritana</i>	Puritan Tiger Beetle	High	Very High	5	80%	86%	T,R

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<i>Cicindela rufiventris hentzi</i>	Hentz's Red-bellied Tiger Beetle	High	Very High	1	100%	88%	—
<i>Cicindela abdominalis</i>	Eastern Pinebarrens Tiger Beetle	Low	High	4	75%	80%	—
<i>Cicindela dorsalis media</i>	White Tiger Beetle	Low	High	4	50%	73%	—
<i>Cicindela lepida</i>	Ghost Tiger Beetle	Low	High	8	63%	79%	—
<i>Cicindela patruela</i>	Barrens Tiger Beetle	Low	High	13	46%	73%	—
<i>Cicindela unipunctata</i>	One-spotted Tiger Beetle	Low	High	8	13%	0%	—
RSGCN List: Freshwater Mussels							
<i>Alasmidonta heterodon</i>	Dwarf Wedgemussel	High	V. High	11	91%	90%	E,R
<i>Alasmidonta varicosa</i>	Brook Floater	High	V. High	14	86%	82%	—
<i>Elliptio fisheriana</i>	Northern Lance	High	V. High	5	60%	82%	—
<i>Lampsilis cariosa</i>	Yellow Lampmussel	High	V. High	12	83%	86%	—
<i>Lasmigona subviridis</i>	Green Floater	High	V. High	7	100%	78%	—
<i>Leptodea ochracea</i>	Tidewater Mucket	High	V. High	11	91%	79%	—
<i>Ligumia nasuta</i>	Eastern Pondmussel	High	V. High	11	91%	84%	—
<i>Alasmidonta undulata</i>	Triangle Floater	High	High	14	57%	82%	—
<i>Anodonta implicata</i>	Alewife Floater	High	High	13	46%	95%	—
<i>Lampsilis radiata</i>	Eastern Lampmussel	High	Mod.	14	57%	76%	—
<i>Epioblasma torulosa gubernaculum</i>	Green Blossom	High	Limited	1	100%	0%	E
<i>Pleurobema collina</i>	James Spiny mussel	High	Limited	2	100%	89%	E
<i>Villosa perpurpurea</i>	Purple Bean	High	Limited	1	100%	83%	E
<i>Alasmidonta marginata</i>	Elktoe	Low	V. High	6	67%	85%	—
<i>Ligumia recta</i>	Black Sandshell	Low	V. High	6	83%	94%	—
<i>Truncilla truncata</i>	Deertoe	Low	V. High	4	100%	69%	—
<i>Anodontoides ferussacianus</i>	Cylindrical Papershell	Low	High	5	100%	73%	—
<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel	Low	High	4	100%	94%	—
<i>Lampsilis ovata</i>	Pocketbook	Low	High	6	100%	94%	—

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<i>Lasmigona compressa</i>	Creek Heelsplitter	Low	High	5	80%	67%	—
<i>Leptodea fragilis</i>	Fragile Papershell	Low	High	6	100%	76%	—
<i>Margaritifera margaritifera</i>	Eastern Pearlshell	Low	High	9	67%	81%	—
<i>Villosa iris</i>	Rainbow	Low	High	4	100%	73%	—
RSGCN List: Other Federally Listed Invertebrate Taxa							
<i>Nicrophorus americanus</i>	American burying beetles	N/A	N/A	N/A	N/A	N/A	E
<i>Lycaeides melissa samuelis</i>	Karner blue butterfly	N/A	N/A	N/A	N/A	N/A	E
<i>Neonympha mitchellii mitchellii</i>	Mitchell's satyr butterfly	N/A	N/A	N/A	N/A	N/A	E
<i>Microhexura montivaga</i>	Spruce-fir moss spider	N/A	N/A	N/A	N/A	N/A	E
<i>Succinea chittenangoensis</i>	Chittenango ovate amber snail	N/A	N/A	N/A	N/A	N/A	T
<i>Triodopsis platysayoides</i>	Flat-spired three-toothed snail	N/A	N/A	N/A	N/A	N/A	T
<i>Polygyriscus virginianus</i>	Virginia fringed mountain snail	N/A	N/A	N/A	N/A	N/A	E
<i>Stygobromus hayi</i>	Hay's spring amphipod	N/A	N/A	N/A	N/A	N/A	E
<i>Stygobromus kenki</i>	Kenk's amphipod	N/A	N/A	N/A	N/A	N/A	C
<i>Lirceus usdagalun</i>	Lee County Cave Isopod	N/A	N/A	N/A	N/A	N/A	E
<i>Antrolana lira</i>	Madison Cave isopod	N/A	N/A	N/A	N/A	N/A	T

RSGCN Concern: Northeast conservation concern ranking. For Very High, High, Moderate, Low, >75%, >50%, >25%, and <25% of occupied states met criteria for conservation concern. Limited indicates 3 or fewer states occupied in the Northeast.

RSGCN Responsibility: Northeast conservation responsibility ranking, where High indicates the region harbors >50% of species distribution, Low is <50%.

Expected States: Northeast with species presence expected due to tracking or documentation by NatureServe, Natural Heritage member programs, or NALCC. Expected states may not agree with known species ranges due to gaps in data or tracking.

State Data Coverage: Proportion of Northeast states represented by presence data compiled by NALCC from many sources. 100% coverage means data were acquired for all expected states.

Data QC %Confident: Northeast states and NatureServe completed a data quality control survey for all RSGCN. %Confident is the proportion of survey responses, across all questions and respondents, where responses met data quality standards.

Federal Status: C-Candidate; E-Listed endangered; ET-Listed endangered & listed threatened; EE-Listed endangered, nonessential experimental population; T-Listed threatened; TS-Listed threatened due to similar appearance; DL-Delisted; PDL-Proposed delisted; PE-Proposed endangered; SC-Species of concern; R-NALCC Representative Species.

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APPENDIX 1c: CONNECTICUT'S GCN SPECIES

This appendix lists Connecticut's fish and wildlife species determined to be in greatest need of conservation. Reasons for designating a species as in greatest conservation need include low and declining populations, endemism, imperilment, vulnerability, global rarity, etc. (see Chapter 1). For each species, the best available status information is listed. This appendix directly addresses Element 1.

State Ranks

S1 = Critically Imperiled
 S2 = Imperiled
 S3 = Vulnerable to Extirpation
 S4 = Apparently Secure
 S5 = Demonstrably Widespread, Abundant, and Secure
 S#S# = Within Range of Ranks

Global Ranks

G1 = Critically Imperiled
 G2 = Imperiled
 G3 = Vulnerable to Extirpation
 G4 = Apparently Secure
 G5 = Demonstrably Widespread, Abundant, and Secure
 G#G# = Within Range of Ranks

State and Global Rank Qualifiers

B = Breeding
 N = Non-breeding
 T = Intraspecific taxon
 NA = Accidental
 HN = Possibly extirpated or extinct (historical)
 NR = Reported
 ? = Inexact or Uncertain

CT Listing

E = Endangered
 T = Threatened
 SC = Special Concern
 SCX = Special Concern Extirpated

Federal Listing

E = Endangered
 T = Threatened

Mammals

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
American Water Shrew	<i>Sorex palustris</i>	S3S4	G5			
Big Brown Bat	<i>Eptesicus fuscus</i>	S5	G5			X
Deer Mouse	<i>Peromyscus maniculatus</i>	S3	G5			
Eastern Small-footed Bat	<i>Myotis leibii</i>	SHN	G3G4		E	X
Hairy-Tailed Mole	<i>Parascalops breweri</i>	S5	G5			X
Harbor Porpoise	<i>Phocoena phocoena phocoena</i>	SNA	G4G5		SC	X
Harbor Seal	<i>Phoca vitulina</i>	SNA	G5			
Hoary Bat	<i>Lasiurus cinereus</i>	S3	G4		SC	X
Indiana Bat	<i>Myotis sodalis</i>	SHN	G2	E	E	X
Least Shrew	<i>Cryptotis parva</i>	S1	G5		E	X
Little Brown Bat	<i>Myotis lucifugus</i>	S5	G3G4		E	X
Long-tailed Weasel	<i>Mustela frenata</i>	S5	G5			
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	S5	G5			

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Mink	<i>Mustela vison</i>	S5	G5			
Muskrat	<i>Ondatra zibethicus</i>	S5	G5			
New England Cottontail	<i>Sylvilagus transitionalis</i>	S2	G3			X
Northern Flying Squirrel	<i>Glaucomys sabrinus</i>	SNA	G5			
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	SU	G1G2	T	E	X
Red Bat	<i>Lasiurus borealis</i>	S3	G4		SC	X
Short-tailed Weasel	<i>Mustela erminea</i>	S5	G5			
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	SNA	G4		SC	X
Southern Bog Lemming	<i>Synaptomys cooperi</i>	S3	G5		SC	X
Southern Red-backed Vole	<i>Clethrionomys gapperi</i>	S5	G5			
Tri-colored Bat	<i>Perimyotis subflavus</i>	S4	G3G4		E	X
Woodland Jumping Mouse	<i>Napaeozapus insignis</i>	S5	G5			X
Woodland Vole	<i>Microtus pinetorum</i>	S5	G5			

Birds

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Alder Flycatcher	<i>Empidonax alnorum</i>	S5B	G5		SC	
American Bittern	<i>Botaurus lentiginosus</i>	S1B	G4		E	X
American Black Duck	<i>Anas rubripes</i>	S3B,S4N	G5			
American Kestrel	<i>Falco sparverius</i>	S2	G5		SC	X
American Oystercatcher	<i>Haematopus palliatus</i>	S1B	G5		T	X
American Woodcock	<i>Scolopax minor</i>	S5	G5			X
Bald Eagle	<i>Haliaeetus leucocephalus</i>	S1B,S3N	G5		T	
Baltimore Oriole	<i>Icterus galbula</i>	S5B	G5			
Bank Swallow	<i>Riparia riparia</i>	S5B	G5			X
Barn Owl	<i>Tyto alba</i>	S2	G5		E	X
Black Scoter	<i>Melanitta nigra</i>	SNA	G5			
Black-and-white Warbler	<i>Mniotilta varia</i>	S5B	G5			X

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	S5B	G5			X
Blackburnian Warbler	<i>Dendroica fusca</i>	S5B	G5			X
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	S5B	G5			
Blue-winged Warbler	<i>Vermivora pinus</i>	S5B	G5			X
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	G5		SC	X
Broad-winged Hawk	<i>Buteo platypterus</i>	S5B	G5		SC	X
Brown Creeper	<i>Certhia americana</i>	S5	G5			X
Brown Thrasher	<i>Toxostoma rufum</i>	S5B	G5		SC	X
Canada Warbler	<i>Wilsonia canadensis</i>	S5B	G5			X
Cerulean Warbler	<i>Setophaga cerulea</i>	S3B	G4		SC	X
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	S5B	G5			
Chimney Swift	<i>Chaetura pelagica</i>	S5B	G5			X
Clapper Rail	<i>Rallus longirostris</i>	S3B	G5			X
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	S3B	G5			
Common Loon	<i>Gavia immer</i>	S1B	G5		SC	X
Common Moorhen	<i>Gallinula chloropus</i>	S2B	G5		E	
Common Nighthawk	<i>Chordeiles minor</i>	S1B	G5		E	X
Common Tern	<i>Sterna hirundo</i>	S3B	G5		SC	X
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S5B	G5			
Eastern Meadowlark	<i>Sturnella magna</i>	S4B	G5		T	X
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S5B	G5			X
Eastern Wood-pewee	<i>Contopus virens</i>	S5B	G5			
Field Sparrow	<i>Spizella pusilla</i>	S5B	G5			X
Glossy Ibis	<i>Plegadis falcinellus</i>	S1B	G5		SC	
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	S2B	G4		E	X
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	S1B	G5		E	X
Great Egret	<i>Ardea alba</i>	S1B	G5		T	
Greater Scaup	<i>Aythya marila</i>	SNA	G5			
Horned Lark	<i>Eremophila alpestris</i>	S1B	G5		E	X

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Indigo Bunting	<i>Passerina cyanea</i>	S5B	G5			
Ipswich Sparrow (Wintering Population)	<i>Passerculus sandwichensis princeps</i>	S1N	G5T2		SC	
King Rail (Nesting Population Only)	<i>Rallus elegans</i>	S1B	G4		E	X
Least Bittern	<i>Ixobrychus exilis</i>	S2B	G5		T	X
Least Flycatcher	<i>Empidonax minimus</i>	S5B	G5			
Least Tern	<i>Sternula antillarum</i>	S2B	G4		T	X
Little Blue Heron	<i>Egretta caerulea</i>	S1B	G5		SC	X
Long-eared Owl	<i>Asio otus</i>	S1B	G5		E	X
Louisiana Waterthrush	<i>Seiurus motacilla</i>	S5B	G5			X
Marsh Wren	<i>Cistothorus palustris</i>	S3B	G5			X
Northern Flicker	<i>Colaptes auratus</i>	S5	G5			
Northern Goshawk	<i>Accipiter gentilis</i>	S4B	G5		T	X
Northern Harrier	<i>Circus cyaneus</i>	S1B	G5		E	X
Northern Parula	<i>Setophaga americana</i>	S1B	G5		SC	X
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	S2S3B	G5		SC	
Northern Waterthrush	<i>Seiurus noveboracensis</i>	S5B	G5			
Osprey	<i>Pandion haliaetus</i>	S3B	G5			
Ovenbird	<i>Seiurus aurocapillus</i>	S5B	G5			
Peregrine Falcon	<i>Falco peregrinus</i>	S1B	G4		T	X
Pied-billed Grebe	<i>Podilymbus podiceps</i>	S1B	G5		E	X
Piping Plover	<i>Charadrius melodus</i>	S1B	G3	T	T	X
Prairie Warbler	<i>Dendroica discolor</i>	S5B	G5			X
Purple Martin	<i>Progne subis</i>	S1B	G5		SC	
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	S1	G5		E	X
Roseate Tern	<i>Sterna dougallii</i>	S1B	G4	E	E	X
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S5B	G5			
Ruddy Turnstone	<i>Arenaria interpres</i>	SNA	G5			X
Ruffed Grouse	<i>Bonasa umbellus</i>	S5	G5			X
Saltmarsh Sparrow	<i>Ammodramus caudacutus</i>	S3B	G4		SC	X

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Sanderling	<i>Calidris alba</i>	SNA	G5			X
Savannah Sparrow	<i>Passerculus sandwichensis</i>	S3B	G5		SC	
Scarlet Tanager	<i>Piranga olivacea</i>	S5B	G5			X
Seaside Sparrow	<i>Ammodramus maritimus</i>	S3B	G4		T	X
Sedge Wren	<i>Cistothorus platensis</i>	S1B	G5		E	X
Semipalmated Sandpiper	<i>Calidris pusilla</i>	SNA	G5			X
Sharp-shinned Hawk	<i>Accipiter striatus</i>	S2B	G5		E	
Short-eared Owl (Wintering Populations)	<i>Asio flammeus</i>	SHB,S1N	G5		T	X
Snowy Egret	<i>Egretta thula</i>	S1B	G5		T	X
Sora	<i>Porzana carolina</i>	S2B	G5			X
Surf Scoter	<i>Melanitta perspicillata</i>	SNA	G5			
Upland Sandpiper	<i>Bartramia longicauda</i>	S1B	G5		E	X
Veery	<i>Catharus fuscescens</i>	S5B	G5			X
Vesper Sparrow	<i>Pooecetes gramineus</i>	S1B	G5		E	X
Virginia Rail	<i>Rallus limicola</i>	S3B	G5			
Whip-poor-will	<i>Caprimulgus vociferus</i>	S3B	G5		SC	X
White-eyed Vireo	<i>Vireo griseus</i>	S5B	G5			
White-winged Scoter	<i>Melanitta fusca</i>	SNA	G5			
Willet	<i>Catoptrophorus semipalmatus</i>	S2B	G5			X
Willow Flycatcher	<i>Empidonax traillii</i>	S5B	G5			X
Wood Thrush	<i>Hylocichla mustelina</i>	S5B	G5			X
Worm-eating Warbler	<i>Helmitheros vermivorus</i>	S5B	G5			X
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S5B	G5			
Yellow-breasted Chat	<i>Icteria virens</i>	S1B	G5		E	X
Yellow-crowned Night-heron	<i>Nyctanassa violacea</i>	S1B	G5		SC	X

Reptiles and Amphibians

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Atlantic Green Turtle	<i>Chelonia mydas</i>	SNA	G3	T	T	X
Atlantic Ridley	<i>Lepidochelys kempii</i>	SNA	G1	E	E	X
Blue-spotted Salamander "Complex"	<i>Ambystoma laterale</i>	S1	G5		SC	X
Blue-spotted Salamander (Diploid)	<i>Ambystoma laterale</i>	S1	G5		E	X
Bog Turtle	<i>Glyptemys mühlenbergii</i>	S1	G3	T	E	X
Common Five-lined Skink	<i>Plestiodon fasciatus</i>	S1	G5		T	
Copperhead	<i>Agkistrodon contortrix</i>	S3	G5			X
Diamond-backed Terrapin	<i>Malaclemys terrapin terrapin</i>	S3	G4T4Q		SC	
Eastern Box Turtle	<i>Terrapene carolina carolina</i>	S4	G5T5		SC	X
Eastern Hognose Snake	<i>Heterodon platirhinos</i>	S2S3	G5		SC	X
Eastern Newt	<i>Notophthalmus viridescens</i>	S5	G5			
Eastern Racer	<i>Coluber constrictor</i>	S5	G5			
Eastern Ribbon Snake	<i>Thamnophis sauritus</i>	S3S4	G5		SC	X
Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S1	G5		E	X
Fowler's Toad	<i>Anaxyrus fowleri</i>	S4	G5			X
Gray Treefrog	<i>Hyla versicolor</i>	S5	G5			
Jefferson Salamander "Complex"	<i>Ambystoma jeffersonianum</i>	S3	G4		SC	X
Leatherback	<i>Dermochelys coriacea</i>	SNA	G2	E	E	X
Loggerhead	<i>Caretta caretta</i>	SNA	G3	T	T	X
Marbled Salamander	<i>Ambystoma opacum</i>	S4	G5			X
Mudpuppy	<i>Necturus maculosus</i>	SNR	G5		SC	X
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	S4	G5			X
Northern Leopard Frog	<i>Lithobates pipiens</i>	S2	G5		SC	X
Northern Slimy Salamander	<i>Plethodon glutinosus</i>	S2	G5		T	X
Northern Spring Salamander	<i>Gyrinophilus porphyriticus</i>	S2	G5		T	X
Smooth Green Snake	<i>Opheodrys vernalis</i>	S3S4	G5		SC	X
Spotted Salamander	<i>Ambystoma maculatum</i>	S5	G5			
Spotted Turtle	<i>Clemmys guttata</i>	S4	G5		SC	X
Timber Rattlesnake	<i>Crotalus horridus</i>	S1	G4		E	X

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Wood Frog	<i>Lithobates sylvatica</i>	S4	G5			
Wood Turtle	<i>Glyptemys insculpta</i>	S3	G3		SC	X

Fish

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Alewife	<i>Alosa pseudoharengus</i>	S3	G5			X
American Brook Lamprey	<i>Lethenteron appendix</i>	S1	G4		E	X
American Eel	<i>Anguilla rostrata</i>	S5	G4			X
American Sand Lance	<i>Ammodytes americanus</i>	SNR	G5			X
American Shad	<i>Alosa sapidissima</i>	S3	G5			X
Atlantic Herring	<i>Clupea harengus</i>	SNR	GNR			X
Atlantic Menhaden	<i>Brevoortia tyrannus</i>	SNR	G5			
Atlantic Salmon	<i>Salmo salar</i>	SH	G5			X
Atlantic Seasnail	<i>Liparis atlanticus</i>	SNR	G5		SC	
Atlantic Silverside	<i>Menidia menidia</i>	SNR	GNR			X
Atlantic Sturgeon	<i>Acipenser oxyrinchus oxyrinchus</i>	S1	G3T3	E	T	X
Atlantic Tomcod	<i>Microgadus tomcod</i>	SNR	G5			X
Banded Sunfish	<i>Enneacanthus obesus</i>	S3	G5		SC	X
Bay Anchovy	<i>Anchoa mitchilli</i>	SNR	G5			
Black Crappie	<i>Pomoxis nigromaculatus</i>	SNA	G5			
Black Sea Bass	<i>Centropristes striata</i>	SNR	GNR			
Blacknose Dace	<i>Rhinichthys atratulus</i>	S5	G5			
Blueback Herring	<i>Alosa aestivalis</i>	S5	G3G4		SC	X
Bridle Shiner	<i>Notropis bifrenatus</i>	S3	G3		SC	X
Brook Trout (Wild)	<i>Salvelinus fontinalis</i>	S5	G5			X
Brown Trout (wild)	<i>Salmo trutta</i>	SNA	G5			
Burbot	<i>Lota lota</i>	S1	G5		E	X
Butterfish	<i>Peprilus triacanthus</i>	SNR	GNR			X

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Chain Pickerel	<i>Esox niger</i>	S5	G5			
Clearnose Skate	<i>Raja eglanteria</i>	SNR	GNR			
Common Shiner	<i>Luxilus cornutus</i>	S5	G5			
Creek Chubsucker	<i>Erimyzon oblongus</i>	S3	G5			
Cunner	<i>Tautoglabrus adspersus</i>	SNR	GNR			X
Cutlips Minnow	<i>Exoglossum maxillingua</i>	S3	G5			X
Fallfish	<i>Semotilus corporalis</i>	S5	G5			X
Fourspine Stickleback	<i>Apeltes quadracus</i>	S3S4	G5			X
Fourspot Flounder	<i>Paralichthys oblongus</i>	SNR	GNR			X
Golden Shiner	<i>Notemigonus crysoleucas</i>	S5	G5			
Hickory Shad	<i>Alosa mediocris</i>	S2	G4			X
Hogchoker	<i>Trinectes maculatus</i>	SNR	G5			
Largemouth Bass	<i>Micropterus salmoides</i>	SNA	G5			
Lined Seahorse	<i>Hippocampus erectus</i>	SNR	GNR			
Longnose Dace	<i>Rhinichthys cataractae</i>	S5	G5			
Longnose Sucker	<i>Catostomus catostomus</i>	SNR	G5		SC	X
Mummichog	<i>Fundulus heteroclitus</i>	S5	G5			X
Northern Pipefish	<i>Syngnathus fuscus</i>	SNR	GNR			
Northern Searobin	<i>Prionotus carolinus</i>	SNR	GNR			X
Ocean Pout	<i>Macrozoarces americanus</i>	SNR	GNR			X
Oyster Toadfish	<i>Opsanus tau</i>	SNR	GNR			X
Pumpkinseed	<i>Lepomis gibbosus</i>	S5	G5			
Radiated Shanny	<i>Ulvaria subbifurcata</i>	SNR	GNR		SC	
Rainbow Smelt (Anadromous Populations)	<i>Osmerus mordax</i>	S1	G5		E	
Red Hake	<i>Urophycis chuss</i>	SNR	GNR			X
Redbreast Sunfish	<i>Lepomis auritus</i>	S5	G5			X
Redfin Pickerel	<i>Esox americanus</i>	S4	G5			
Sand Tiger Shark	<i>Carcharias taurus</i>	SNR	G3G4		SC	
Sandbar Shark	<i>Carcharhinus plumbeus</i>	SNR	GNR			

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Scup	<i>Stenotomus chrysops</i>	SNR	GNR			
Sea Lamprey	<i>Petromyzon marinus</i>	S5	G5			
Sea Raven	<i>Hemitripterus americanus</i>	SNR	GNR			X
Sheepshead Minnow	<i>Cyprinodon variegatus</i>	SNR	G5			
Shortnose Sturgeon	<i>Acipenser brevirostrum</i>	S1	G3	E	E	X
Silver Hake	<i>Merluccius bilinearis</i>	SNR	GNR			X
Slimy Sculpin	<i>Cottus cognatus</i>	S3S4	G5		SC	X
Smallmouth Bass	<i>Micropterus dolomieu</i>	SNA	G5			
Smooth Dogfish	<i>Mustelis canis</i>	S5	GNR			
Spiny Dogfish	<i>Squalus acanthias</i>	SNR	GNR			X
Striped Bass	<i>Morone saxatilis</i>	S3	G5			
Striped Searobin	<i>Prionotus evolans</i>	SNR	GNR			X
Swamp Darter	<i>Etheostoma fusiforme</i>	S2	G5			X
Tautog	<i>Tautoga onitis</i>	SNR	GNR			X
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	SNR	G5			
Weakfish	<i>Cynoscion regalis</i>	SNR	GNR			
White Sucker	<i>Catostomus commersoni</i>	S5	G5			
Windowpane Flounder	<i>Scophthalmus aquosus</i>	SNR	GNR			X
Winter Flounder	<i>Pseudopleuronectes americanus</i>	SNR	GNR			X
Winter Skate	<i>Leucoraja ocellata</i>	SNR	GNR			X
Yellow Perch	<i>Perca flavescens</i>	S5	G5			

Invertebrates

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
American Bumble Bee	<i>Bombus pennsylvanicus</i>	SNR	G3G4			
American Burying Beetle	<i>Nicrophorus americanus</i>	SX	G2G3	E	SCX	X
American Lobster	<i>Homarus americanus</i>	SNR	GNR			
American Rubyspot	<i>Hetaerina americana</i>	S1S2	G5		T	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Annoited Sallow Moth	<i>Pyreferra ceromatica</i>	SX	GU		SCX	
Apamea Moth	<i>Apamea inordinata</i>	S2	GU		T	
Apamea Moth	<i>Apamea burgessi</i>	S3	G4			
Appalachian Blue	<i>Celastrina neglectamajor</i>	S1	G4		E	
Ashton's Cuckoo Bumble Bee	<i>Bombus ashtoni</i>	SX	GH		SCX	
Atlantic Bluet	<i>Enallagma doubledayi</i>	S1	G5		T	
Atlantis Fritillary Butterfly	<i>Speyeria atlantis</i>	S1	G5		E	
Attenuated Bluet	<i>Enallagma daeckii</i>	SNR	G4		SC	
Aureolaria Seed Borer	<i>Pyrrhia aurantiago</i>	S2	G3G4		T	
Banded Pennant	<i>Celithemis fasciata</i>	S2	G5			
Barrens Chytonix	<i>Chytonix sensilis</i>	S1	G4		E	
Barrens Dagger Moth	<i>Acronicta albarufa</i>	SX	G3G4		SCX	
Barrens Itame	<i>Speranza exonerata</i>	S1	G3G4		T	
Barrens Metarranthis Moth	<i>Metarranthis apiciaria</i>	S1	G1G3		SC	
Bay Scallop	<i>Argopecten irradians</i>	SNR	G5			
Bay Underwing Moth	<i>Catocala badia badia</i>	S2S3	G4T4		SC	
Bee Fly	<i>Dipalta banksi</i>	SNR	GNR			
Big Sand Tiger Beetle	<i>Cicindela formosa generosa</i>	S3	G5T5		SC	
Black Lordithon Rove Beetle	<i>Lordithon niger</i>	SX	GU		SCX	
Black-eyed Zale	<i>Zale curema</i>	S1	G4		E	
Blue Corporal Dragonfly	<i>Ladona deplanata</i>	S2	G5		SC	
Blue Crab	<i>Callinectes sapidus</i>	SNR	GNR			
Blue Mussel	<i>Mytilus edulis</i>	SNR	GNR			
Blueberry Gray Moth	<i>Glena cognataria</i>	SH	G4		SCX	
Bog Copper	<i>Lycaena epixanthe</i>	S2S3	G4G5		SC	
Bog Tiger Moth	<i>Grammia speciosa</i>	S1	G5		E	
Bombardier Beetle	<i>Brachinus ovipennis</i>	S2	GNR		SC	
Bombardier Beetle	<i>Brachinus cyanipennis</i>	S3	GNR		SC	
Bombardier Beetle	<i>Brachinus patruelis</i>	S2	GNR		SC	

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Bombardier Beetle	<i>Brachinus medius</i>	S2	GNR		SC	
Bombardier Beetle	<i>Brachinus fumans</i>	S2	GNR		SC	
Boreal Fossaria	<i>Fossaria galbana</i>	SH	G5		SCX	
Boreal Turret Snail	<i>Valvata sincera</i>	S1	G5		SC	
Brick-red Borer Moth	<i>Papaipema marginidens</i>	S1	G4		E	
Bronze Copper	<i>Lycaena hyllus</i>	S2	G5		SC	
Brook Floater	<i>Alasmidonta varicosa</i>	S1	G3		E	X
Brown-bordered Geometer	<i>Eumacaria latiferrugata</i>	SNR	G4		T	
Buck Moth	<i>Hemileuca maia maia</i>	S1	G5T5		E	
Channeled Whelk	<i>Busycotypus canaliculatum</i>	S3A	GNR			
Clam Shrimp	<i>Eulimnadia agassizii</i>	SH	G1G2		SCX	
Coastal Heathland Cutworm	<i>Abagrotis nefascia benjamini</i>	S2	G4T3		T	
Coastal Mud Shrimp	<i>Upogebia affinis</i>	SNR	GNR			
Coastal Pond Amphipod	<i>Synurella chamberlaini</i>	SNR	GNR		SC	
Cobra Clubtail	<i>Gomphus vastus</i>	S2S3	G5		SC	
Columbine Borer	<i>Papaipema leucostigma</i>	S2	G4		E	
Columbine Duskywing	<i>Erynnis lucilius</i>	S1	G4		E	
Comet Darner	<i>Anax longipes</i>	S1S2	G5			
Common Crayfish	<i>Cambarus bartonii</i>	SNR	G5		SC	
Common Razor Clam	<i>Ensis directus</i>	S5	GNR			
Common Roadside Skipper	<i>Amblyscirtes vialis</i>	S1	G4		E	
Common Sanddragon	<i>Progomphus obscurus</i>	S1	G5		T	
Coppery Emerald	<i>Somatochlora georgiana</i>	SNR	GNR		T	
Corylus Dagger Moth	<i>Acronicta falcula</i>	S1S2	G2G4		SC	
Cow Path Tiger Beetle	<i>Cicindela purpurea</i>	SX	G5		SCX	
Crimson-ringed Whiteface	<i>Leucorrhinia glacialis</i>	S1S2	G5		T	
Dark-bellied Tiger Beetle	<i>Cicindela tranquebarica</i>	S1S2	G5		T	
Disc Gyro	<i>Gyraulus circumstriatus</i>	S1	G5		SC	
Drasteria Moth	<i>Drasteria occulta</i>	SH	G4		SCX	

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Dune Ghost Tiger Beetle	<i>Cicindela lepida</i>	S1	G3G4		E	X
Dune Sympistis	<i>Sympistis riparia</i>	SNR	G4		SC	
Dwarf Wedgemussel	<i>Alasmidonta heterodon</i>	S1	G1G2	E	E	X
Eastern Cactus-boring Moth	<i>Melitara prodenialis</i>	S1	G4		SC	
Eastern Oyster	<i>Crassostrea virginica</i>	SNR	G5			
Eastern Pearlshell	<i>Margaritifera margaritifera</i>	SU	G4		SC	X
Eastern Pondmussel	<i>Ligumia nasuta</i>	S1S2	G4		SC	X
Equivocal Looper	<i>Digrammia equivocata</i>	S1S3	G2G4		SC	
Eyed Brown	<i>Lethe eurydice</i>	S2S3	G5		SC	
Fairy Shrimp	<i>Eubrachipus holmanii</i>	SNR	G5		E	
False Heather Underwing	<i>Drasteria graphica atlantica</i>	S1	G4T4		T	
Fawn Brown Dart Moth	<i>Euxoa pleuritica</i>	S1S2	G4		SC	
Fiddler Crabs	<i>Uca spp.</i>	SNR	GNR			
Flat Claw Hermit Crab	<i>Pagurus pollicaris</i>	S4	GNR			
Fragile Dagger Moth	<i>Acronicta fragilis</i>	S1S3	G5		SC	
Fringed Loosestrife Oil-bee	<i>Macropis ciliata</i>	S2S3	GNR		SC	
Frosted Elfin	<i>Callophrys irus</i>	S2S3	G3		T	
Ghost Shrimp	<i>Gilvossius setimanus</i>	SNR	GNR			
Grass Shrimp	<i>Hippolyte spp.</i>	S5	GNR			
Grassland Thaumatopsis	<i>Thaumatopsis edonis</i>	S1	GNR		T	
Gray Spring Zale	<i>Zale submediana</i>	S1	G4		SCX	
Green Crab	<i>Carcinus maenas</i>	SNR	GNR			
Ground Beetle	<i>Geopinus incrassatus</i>	S2	GNR		SC	
Ground Beetle	<i>Harpalus caliginosus</i>	S2?	GNR		SC	
Ground Beetle	<i>Loxandrus vulneratus</i>	SH	GNR		SC	
Ground Beetle	<i>Amara chalcea</i>	S2	GNR		SC	
Ground Beetle	<i>Agonum mutatum</i>	S2	GNR		SC	
Ground Beetle	<i>Helluomorphoides praeustus bicolor</i>	S2	GNRTNR		SC	
Ground Beetle	<i>Harpalus erraticus</i>	S2	GNR		SC	

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Ground Beetle	<i>Nebria lacustris lacustris</i>	S3	GNRTNR		SC	
Ground Beetle	<i>Carabus serratus</i>	SH	GNR		SC	
Ground Beetle	<i>Bembidion carinula</i>	S3	GNR		SC	
Ground Beetle	<i>Bembidion semicinctum</i>	S3	GNR		SC	
Ground Beetle	<i>Bembidion quadratum</i>	S1S3	GNR		SC	
Ground Beetle	<i>Bembidion simplex</i>	S3	GNR		SC	
Ground Beetle	<i>Scaphinotus viduus</i>	SNR	GNR		SC	
Ground Beetle	<i>Agonum darlingtoni</i>	S2	GNR		SC	
Ground Beetle	<i>Bembidion planum</i>	S3	GNR		SC	
Ground Beetle	<i>Bembidion lacunarium</i>	S2	GNR		SC	
Ground Beetle	<i>Badister transversus</i>	S3	GNR		SC	
Ground Beetle	<i>Carabus vinctus</i>	S3	GNR		SC	
Ground Beetle	<i>Bembidion pseudocautum</i>	S3	GNR		SC	
Hairy-necked Tiger Beetle	<i>Cicindela hirticollis</i>	S2	G5		SC	
Harpoon Clubtail	<i>Gomphus desertus</i>	S1S2	G4		T	
Harris's Checkerspot	<i>Chlosyne harrisii</i>	SH	G4		SCX	
Henry's Elfin	<i>Callophrys henrici</i>	S2S3	G5		SC	
Herodias Underwing	<i>Catocala herodias gerhardi</i>	S1	G3T3		E	
Hessel's Hairstreak	<i>Callophrys hesseli</i>	S1S2	G3G4		E	
Hoary Elfin	<i>Callophrys polios</i>	SX	G5		SCX	
Hops-stalk Borer Moth	<i>Papaipema circumlucens</i>	SH	G3G4		SCX	
Horace's Duskywing	<i>Erynnis horatius</i>	S2	G5		SC	
Horse Fly	<i>Hybomitra frosti</i>	S2	GNR		SC	
Horse Fly	<i>Hybomitra typhus</i>	S3	GNR		T	
Horse Fly	<i>Tabanus fulvicallus</i>	S2S3	GNR		T	
Horse Fly	<i>Hybomitra longiglossa</i>	S1	GNR		E	
Horse Fly	<i>Hybomitra lurida</i>	SU	GNR		SC	
Horse Fly	<i>Hybomitra trepida</i>	S3	GNR		T	
Horse Fly	<i>Goniops chrysocoma</i>	SNR	GNR		SC	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Horseshoe Crab	<i>Limulus polyphemus</i>	S2S3	GNR			
Imperial Moth	<i>Eacles imperialis imperialis</i>	SX	G5T5		SC	
Knobbed Whelk	<i>Busycon carica</i>	SNR	GNR			
Labrador Tea Tentiform Leafminer	<i>Phyllonorycter ledella</i>	S1	GNR		E	
Lace-winged Horse Fly	<i>Haematopota rara</i>	SNR	GNR		E	
Lady Crab	<i>Ovalipes ocellatus</i>	S3A	GNR			
Lanced phaneta	<i>Phaneta clavana</i>	S1	GNR		T	
Lemmer's Noctuid Moth	<i>Lithophane lemmeri</i>	SH	G3G4		SC	
Little 17-year Periodical Cicada	<i>Magicicada septendecula</i>	SNR	GNR		E	
Little Beggar	<i>Eubaphe meridiana</i>	S1	G4		E	
Little Bluet	<i>Enallagma minusculum</i>	S2	G4		SC	
Long-finned Squid	<i>Loligo pealeii</i>	S4	GNR			
Long-horned Beetle	<i>Prionus pocularis</i>	SNR	GNR			
Lymnaeid Snail	<i>Fossaria rustica</i>	S1	G5Q		SC	
Macropis Cuckoo	<i>Epeoloides pilosula</i>	S1S2	G1		E	
Mantis Shrimp	<i>Squilla empusa</i>	SNR	GNR			
Maritime Sunflower Borer Moth	<i>Papaipema maritima</i>	SX	G3		SCX	
Maroonwing Moth	<i>Sideridis maryx</i>	SH	G4		SCX	
Marsh Fern Moth	<i>Fagitana littera</i>	S1S3	G4		SC	
Martha's Pennant	<i>Celithemis martha</i>	S2S3	G4			
Mayfly	<i>Baetisca obesa</i>	SNR	G5			
Mayfly	<i>Baetisca lacustris</i>	SNR	G5			
Mayfly	<i>Cinygmula subaequalis</i>	SNR	G5			
Mayfly	<i>Leptophlebia bradleyi</i>	SNR	G5			
Mayfly	<i>Paraleptophlebia assimilis</i>	S2	G4		T	
Midland Clubtail	<i>Gomphus fraternus</i>	S2	G5		T	
Monarch	<i>Danaus plexippus</i>	S5	G4			
Morrison's Mosaic	<i>Eucosma morrisoni</i>	S1	GNR		T	
Mottled Duskywing	<i>Erynnis martialis</i>	SX	G3		SCX	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Mud Crabs	<i>Xanthidae spp.</i>	S5	GNR			
Mustached Clubtail	<i>Gomphus adelphus</i>	S2	G4		SC	
Mystic Valley Amphipod	<i>Crangonyx aberrans</i>	SNR	G3G4		SC	
New England Buckmoth	<i>Hemileuca lucina</i>	S1	G4?			
New Jersey Tea Inchworm	<i>Apodrepanulatrix liberaria</i>	S1	G3		E	
Newman's Brocade	<i>Meropleon ambifusca</i>	SNR	G3G4		SC	
Nine-spotted Lady Beetle	<i>Coccinella novemnotata</i>	SH	G2		SC	
Noctuid Moth	<i>Anarta luteola</i>	S1	G5		E	
Noctuid Moth	<i>Zanclognatha theralis</i>	S1S2	G4		T	
Noctuid Moth	<i>Eucloptocnemis fimbriaris</i>	S2S3	G4			
Noctuid Moth	<i>Dichagyris acclivis</i>	S2	G4G5		SC	
Noctuid Moth	<i>Schinia spinosae</i>	S2	G4		SC	
Northeastern Beach Tiger Beetle	<i>Cicindela dorsalis dorsalis</i>	SX	G3G4T2	T	SCX	X
Northern Dusk-singing Cicada	<i>Tibicen auletes</i>	S1S2	GNR		E	
Northern Flower Moth	<i>Schinia septentrionalis</i>	SNR	G3G4		T	
Northern Metalmark	<i>Calephelis borealis</i>	S1	G3G4		E	
Oblique Zale	<i>Zale obliqua</i>	S2S3	G5		SC	
Pale Green Pinion Moth	<i>Lithophane viridipallens</i>	S2	G5		SC	
Persius Duskywing	<i>Erynnis persius persius</i>	S1	G5T1T3		E	
Phyllira Tiger Moth	<i>Grammia phyllira</i>	S1	G4		E	
Piedmont Groundwater Amphipod	<i>Stygobromus tenuis tenuis</i>	SNR	G4T4		SC	
Pine Barrens Bluet	<i>Enallagma recurvatum</i>	SNR	G3		T	
Pine Barrens Zanclognatha	<i>Zanclognatha martha</i>	S2	G4		T	
Pine Sphinx	<i>Lapara coniferarum</i>	S1	G5		T	
Pink Prominent	<i>Hyparpax aurora</i>	SNR	G5		SC	
Pink Sallow	<i>Psectraglaea carnosa</i>	S1	G3		T	
Pink Star Moth	<i>Derrima stellata</i>	SU	G4		SC	
Pink Streak	<i>Dargida rubripennis</i>	S1S2	G3G4		T	
Pitcher Plant Borer	<i>Papaipema appassionata</i>	S2	G4		T	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Pitcher Plant Moth	<i>Exyra fax</i>	S2	G4		T	
Pointed Dagger Moth	<i>Acronicta lanceolaria</i>	SH	G4		SCX	
Precious Underwing Moth	<i>Catocala pretiosa pretiosa</i>	SX	G4T2		SCX	
Puritan Tiger Beetle	<i>Cicindela puritana</i>	S1	G1G2	T	E	X
Purse Web Spider	<i>Sphodros niger</i>	SNR	G4G5		SC	
Rapids Clubtail	<i>Gomphus quadricolor</i>	S1S2	G3G4		T	
Regal Fritillary	<i>Speyeria idalia</i>	SX	G3		SCX	
Regal Moth	<i>Citheronia regalis</i>	SX	G4G5		SCX	
Ringed Boghaunter	<i>Williamsonia lintneri</i>	S1S2	G3		E	
Riverine Clubtail	<i>Stylurus amnicola</i>	S2	G4		T	
Robber Fly	<i>Stichopogon argenteus</i>	SNR	GNR			
Robber Fly	<i>Ceraturgus aurulentus</i>	SNR	GNR			
Robber Fly	<i>Laphria cinerea</i>	SNR	GNR			
Robber Fly	<i>Nicocles politus</i>	SNR	GNR			
Rock Crab	<i>Cancer irroratus</i>	SNR	GNR			
Rusty-patched Bumble Bee	<i>Bombus affinis</i>	SX	G1		SCX	
Saltmarsh Tiger Beetle	<i>Cicindela marginata</i>	S2	G5		SC	
Sand Prairie Wainscot	<i>Leucania extincta</i>	SNR	G4			
Sand Shrimp	<i>Crangon septemspinosa</i>	SNR	GNR			
Sand Wainscot Moth	<i>Apamea lintneri</i>	S3	G4		SC	
Scarlet Bluet	<i>Enallagma pictum</i>	S2	G3		SC	
Scribbled Sallow Moth	<i>Sympistis perscripta</i>	S2	G4		SC	
Scrub Euchlaena	<i>Euchlaena madusaria</i>	S2	G4		T	
Seaside Goldenrod Stem Borer	<i>Papaipema duovata</i>	S2	G4		T	
Sedge Skipper	<i>Euphyes dion</i>	S3	G4		SC	
Shore Shrimp	<i>Palaemonetes spp.</i>	S5	GNR			
Short-lined Chocolate	<i>Argyrostromis anilis</i>	S2	G5		SC	
Silvery Blue	<i>Glaucoopsyche lygdamus</i>	SNR	G5			
Silvery Checkerspot	<i>Chlosyne nycteis</i>	SX	G5		SCX	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Skillet Clubtail	<i>Gomphus ventricosus</i>	S2	G3		SC	
Ski-tailed Emerald	<i>Somatochlora elongata</i>	S2	G5		SC	
Sleepy Duskywing	<i>Erynnis brizo</i>	S2	G5		T	
Slender Clearwing	<i>Hemaris gracilis</i>	S2	G3G4		T	
Slender Flower Moth	<i>Schinia gracilentata</i>	S1	G4Q		E	
Slender Walker	<i>Pomatiopsis lapidaria</i>	S1	G5		SC	
Soft Shell Clam	<i>Mya arenaria</i>	SNR	GNR			
Sparkling Jewelwing	<i>Calopteryx dimidiata</i>	S1S2	G5		T	
Spartina Borer Moth	<i>Photodes inops</i>	S2	G3G4		SC	
Speyer's Paint	<i>Cucullia speyeri</i>	SH	G4		SCX	
Spider Crab	<i>Libinia emarginata</i>	SNR	GNR			
Spongillafly	<i>Sisyra fuscata</i>	SU	GNR			
Spotted Dart Moth	<i>Agrotis stigmosa</i>	S2	G4		SC	
Starfish spp.	<i>Asteriid spp.</i>	S4	GNR			
Stinging Rose Caterpillar Moth	<i>Parasa indetermina</i>	SNR	G4		SC	
Sugar Maple Borer	<i>Glycobius speciosus</i>	SNR	GNR			
Syrphid Fly	<i>Mixogaster johnsoni</i>	SH	GNR		SCX	
Tabanid Fly	<i>Atylotus ohioensis</i>	S3	GNR		T	
Tabanid Fly	<i>Atylotus sphagnicolus</i>	SNR	GNR			
Tabanid Fly	<i>Stonemyia isabellina</i>	SNR	GNR		SC	
Tabanid Fly	<i>Merycomyia whitneyi</i>	S2S3	GNR		T	
Taper-tailed Darner	<i>Gomphaeschna antilope</i>	SNR	G4			
Tidewater Mucket	<i>Leptodea ochracea</i>	S2	G3G4		SC	X
Tiger Spiketail	<i>Cordulegaster erronea</i>	S2	G4		T	
Toothed Apharetra Moth	<i>Sympistis dentata</i>	S1	G4		T	
Turret Snail	<i>Valvata tricarinata</i>	S1	G5		SC	
Tusked Sprawler	<i>Anthopotamus verticis</i>	SNR	G5		T	
Two-spotted Skipper	<i>Euphyes bimacula</i>	S1S2	G4		E	
Violet Dart Moth	<i>Euxoa violaris</i>	S1S2	G4		SC	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Virginia River Snail	<i>Elimia virginica</i>	S4	G5			
Waxed Sallow	<i>Chaetagnalea cerata</i>	S1S2	G3G4		SC	
Woodland Pondsnaill	<i>Stagnicola catascopium</i>	S1	G5		SC	
Yellow Lampmussel	<i>Lampsilis cariosa</i>	SNR	G3G4		E	X
Yellow-banded Bumble Bee	<i>Bombus terricola</i>	S1	G2G4		T	
Yellow-horned Beaded Lacewing	<i>Lomamyia flavicornis</i>	S2	GNR		SC	

Plants

Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
American Beachgrass	<i>Ammophila breviligulata</i>	SNR	G5			
American Ginseng	<i>Panax quinquefolius</i>	S2	G3G4		SC	
American Hazel	<i>Corylus americana</i>	SNR	G5			
Atlantic White Cedar	<i>Chamaecyparis thyoides</i>	SNR	G4			
Barratt's Sedge	<i>Carex barrattii</i>	S1	G4		E	
Bayard's White Adder's Mouth	<i>Malaxis bayardii</i>	S1	G1G2		SCX	
Bayberry	<i>Morella caroliniensis</i>	SNA	G5			
Beach Pinweed	<i>Lechea maritima</i>	SNR	G5			
Beach Plum	<i>Prunus maritima var. gravesii</i>	SX	G4TXCQ		SCX	
Beaked Hazel	<i>Corylus cornuta</i>	SNR	G5			
Big Bluestem	<i>Andropogon gerardii</i>	SNR	G5			
Black Bugbane	<i>Actaea racemosa</i>	SNR	G4			
Black Oak	<i>Quercus velutina</i>	SNR	G5			
Bog Laurel	<i>Kalmia polifolia</i>	SNR	G5			
Bur Oak	<i>Quercus macrocarpa</i>	SU	G5		SC	
Bushy Frostweed	<i>Helianthemum dumosum</i>	SH	G3			
Butterfly Milkweed	<i>Asclepias tuberosa</i>	SNR	G5			
Capillary Pondweed	<i>Potamogeton gemmiparus</i>	S1	G5T3		T	
Chaffseed	<i>Schwalbea americana</i>	SH	G2G3	E	SCX	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Clasping Milkweed	<i>Asclepias amplexicaulis</i>	SNR	G5			
Common Hops	<i>Humulus lupulus var. americanus</i>	SNR	G5			
Common Milkweed	<i>Asclepias syriaca</i>	SNR	G5			
Common Serviceberry	<i>Amelanchier arborea</i>	SNR	G5			
Common Yarrow	<i>Achillea millefolium</i>	S5	G5			
Creeping St. John's-wort	<i>Hypericum adpressum</i>	SH	G3		SCX	
Dragon's-mouth	<i>Arethusa bulbosa</i>	SH	G5		SCX	
Dwarf Chinkapin Oak	<i>Quercus prinoides</i>	SNR	G5			
Dwarf Serviceberry	<i>Amelanchier spicata</i>	SNR	G5			
Eastern Prickly-pear	<i>Opuntia humifusa</i>	S3	G5		SC	
Eaton's Beggarticks	<i>Bidens eatonii</i>	S1	G3		E	
Fern-leaf False Foxglove	<i>Aureolaria pedicularia</i>	SNR	G5			
Flax-leaved Stiff-aster	<i>Ionactis linariifolia</i>	SNA	G5			
Fogg's Goosefoot	<i>Chenopodium fogii</i>	SH	G2G3			
Goldenseal	<i>Hydrastis canadensis</i>	S1	G3G4		E	
Greater Water Dock	<i>Rumex britannica</i>	SNR	G5			
Green Milkweed	<i>Asclepias viridiflora</i>	S1	G5		E	
Highbush Blueberry	<i>Vaccinium corymbosum</i>	SNR	G5			
Hill's Pondweed	<i>Potamogeton hillii</i>	S1	G3		E	
Hillside Blueberry	<i>Vaccinium pallidum</i>	SNR	G5			
Indian Paintbrush	<i>Castilleja coccinea</i>	S2	G5		E	
Labrador-tea	<i>Rhododendron groelandicum</i>	S2	G5			
Lakeside Sedge	<i>Carex lacustris</i>	SNR	G5			
Large Cranberry	<i>Vaccinium macrocarpon</i>	SNR	G4			
Laurentian Fragile-fern	<i>Cystopteris laurentiana</i>	SU	G3			
Little Bluestem	<i>Schizachyrium scoparius</i>	SNR	G5			
Long's Bitter-cress	<i>Cardamine longii</i>	SNA	G3?			
Long's Bulrush	<i>Scirpus longi</i>	SH	G2G3		SCX	
Lowbush Blueberry	<i>Vaccinium angustifolium</i>	SNR	G5			

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Nantucket Juneberry	<i>Amelanchier nantucketensis</i>	SNA	G3Q			
New England Blazing-star	<i>Liatris novae-angliae</i>	S2	G5?T3		SC	
New Jersey Tea	<i>Ceanothus americanus</i>	SNR	G5			
Nodding Pogonia	<i>Triphora trianthophora</i>	S1	G3G4		E	
Northern Adder's Tongue Fern	<i>Ophioglossum pusillum</i>	S1	G5		E	
Ogden's Pondweed	<i>Potamogeton ogdenii</i>	S1	G1G2		E	
Oldfield-toadflax	<i>Nuttallanthus canadensis</i>	SNA	G5			
Parker's Pipewort	<i>Eriocaulon parkeri</i>	S1	G3		E	
Pignut Hickory	<i>Carya glabra</i>	SNR	G5			
Pin Cherry	<i>Prunus pensylvanica</i>	SNR	G5			
Pitch Pine	<i>Pinus rigida</i>	SNR	G5			
Post Oak	<i>Quercus stellata</i>	SNR	G5			
Prairie Cordgrass	<i>Spartina pectinata</i>	SNR	G5			
Purple Milkweed	<i>Asclepias purpurascens</i>	S2S3	G5?		SC	
Purple Pitcherplant	<i>Sarracenia purpurea</i>	SNR	G5			
Quill-leaved Arrowhead	<i>Sagittaria teres</i>	SNR	G3		E	
Ram's-Head Lady's-slipper	<i>Cypripedium arietinum</i>	SH	G3		SCX	
Red Cedar	<i>Juniperus virginiana</i>	SNR	G5			
Red Pine	<i>Pinus resinosa</i>	S1	G5		E	
Roundleaf Ragwort	<i>Packera obovata</i>	SNR	G5			
Sand Cherry	<i>Prunus pumila</i>	SNR	G5			
Sandplain Agalinis	<i>Agalinis acuta</i>	S1	G1	E	E	
Schweinitz's Sedge	<i>Carex schweinitzii</i>	S1	G3G4		E	
Scrub Oak	<i>Quercus ilicifolia</i>	SNR	G5			
Sea-beach Amaranth	<i>Amaranthus pumilus</i>	SH	G2	T	SCX	
Seabeach Knotweed	<i>Polygonum glaucum</i>	SH	G3		SC	
Seaside Goldenrod	<i>Solidago sempervirens</i>	SNR	G5			
Showy Aster	<i>Eurybia spectabilis</i>	S2	G5		T	
Showy Lady's-slipper	<i>Cypripedium reginae</i>	S1	G4		E	

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Common Name	Scientific Name	State Rank	Global Rank	Federal Listing	CT Listing	RGCN Species
Showy Orchid	<i>Galearis spectabilis</i>	S3	G5			
Sickle-leaf Golden-aster	<i>Pityopsis falcata</i>	S1	G3G4		E	
Small Cranberry	<i>Vaccinium oxycoccos</i>	SNR	G5			
Small Whorled Pogonia	<i>Isotria medeoloides</i>	S1	G2?	T	E	
Smooth False Foxglove	<i>Aureolaria flava</i>	SNR	G5			
Smooth Serviceberry	<i>Amelanchier laevis</i>	SNR	G4G5Q			
Spreading Globe Flower	<i>Trollius laxus</i>	S1S2	G5		T	
St. Lawrence Grapefern	<i>Botrychium rugulosum</i>	SU	G3			
Sugar Maple	<i>Acer saccharum</i>	SNR	G5			
Sundial Lupine	<i>Lupinus perennis perennis</i>	SNR	G5T4?			
Swamp Milkweed	<i>Asclepias incarnata</i>	SNR	G5			
Switchgrass	<i>Panicum virgatum</i>	SNR	G5			
Tall White-aster	<i>Doellingeria umbellata</i>	SNR	G5			
Tidal Spikerush	<i>Eleocharis aestuum</i>	SNR	G3			
Torrey Mountain-mint	<i>Pycnanthemum torrei</i>	S1	G2		E	
Variable Sedge	<i>Carex polymorpha</i>	S1	G3		E	
White Meadowsweet	<i>Spiraea alba</i>	SNR	G5			
Wild Columbine	<i>Aquilegia canadensis</i>	SNR	G5			
Wild Lupine	<i>Lupinus perennis</i>	SNR	G5			
Woolly Beach-heather	<i>Hudsonia tomentosa</i>	S2S3	G5			
Wright's Spikerush	<i>Eleocharis diandra</i>	SNR	G2			
Yellow Nutsedge	<i>Cyperus esculentus</i>	SNR	G5			
Yellow Wild Indigo	<i>Baptisia tinctoria</i>	SNR	G5			

APPENDIX 1d: NORTHEASTERN RCN PROJECTS SINCE 2006

2007 Development of Avian Indicators and Measures for Monitoring Threats and Effectiveness of Conservation Actions in the Northeast

With the completion of this project, Northeast regional monitoring procedures are now available for birds of grasslands, tidal marshes, and mountain forests--habitats that span the northeastern landscape, contain a high percentage of vulnerable species, and encompass the region's major management issues. These coordinated bird monitoring programs can effectively measure threats and management effects at the regional level to target birds and habitats identified by State Wildlife Action Plans.

2007 An Interactive, GIS-Based Application to Estimate Continuous, Unimpacted Daily Streamflow at Ungaged Locations in the Connecticut River Basin

Work from this project allows users to identify a stream reach of interest in the Connecticut River basin and obtain estimated continuous daily, unregulated or "natural" streamflow at the selected location. The application spans the entire Connecticut River basin, including the states of Connecticut, Massachusetts, New Hampshire, and Vermont. This work expands on a method developed for Massachusetts to estimate daily streamflows at ungaged locations.

2007 Establishing a Regional Initiative for Biomass Energy Development for Early-Succession SGCN in the Northeast

This project outlined the costs and benefits that biomass energy systems pose for Species of Greatest Conservation Need (SGCN) in the Northeast Region. Wildlife biologists can use this information to recognize opportunities certain biomass energy applications present for managing SGCN and provide an impetus to work with biomass developers for mutual benefit. For example, some biomass energy systems have the potential to provide components of habitat favorable to early successional SGCN.

2007 Creation of Regional Habitat Cover Maps Application of the Northeast Terrestrial Habitat Classification System

The Northeast Terrestrial Habitat Mapping Project was undertaken in 2008 with the support of this Regional Conservation Needs grant. Development of a consistent habitat classification framework and map was seen by many Northeast Region biologists and managers as the most critical initiative for habitat-based conservation efforts. The purpose of this mapping effort is to provide a common framework and language for conservation planning and wildlife management across jurisdictional borders.

2007 Identifying Relationships between Invasive Species and Species of Greatest Conservation Need in the Northeast Region

Exotic invasive species pose a significant threat to species of greatest conservation need (SGCN) throughout the Northeast in a number of ways. Impacts may be direct (affecting individual health or productivity) or indirect (affecting habitat and/or ecosystem processes) or both. State wildlife action plans (SWAP) have identified wildlife species within each state that warrant some level of management concern.

2007 [Conservation Status of Fish, Wildlife, and Natural Habitats in the Northeast Landscape](#)

To encourage conservation and cooperation among states, this project synthesized data from multiple sources to reveal ecological patterns and the current condition of species and habitats in the Northeast Region. The regional conservation status of each key habitat and species target was summarized by overlaying information on the location and condition of the target with information on conservation land ownership and management.

2007 [Regional Monitoring and Performance Framework](#)

The Regional Monitoring and Performance Reporting Framework is a collaborative effort of northeastern states, federal land management agencies, non-governmental organizations, and academics. The Framework was designed to help northeastern states meet the monitoring and performance reporting requirements of [State Wildlife Action Plans](#) (SWAPs).

2007 [Exploring the Connection between Arousal Patterns in Hibernating Bats and White Nose Syndrome](#)

Funds from this RCN grant were used to demonstrate that bats affected with the infectious disease white-nose syndrome (WNS) arouse from hibernation significantly more often than healthy bats, which leads to their starvation. This highly significant effect is independent of initial body condition and hibernacula microclimate, which are both known to influence hibernation patterns.

2007 [Northeast Aquatic Connectivity](#)

The Northeast Aquatic Connectivity Project (NAC) has resulted in a set of valuable outcomes that will assist resource agencies in the northeastern U.S. to strategically reconnect fragmented aquatic habitats by targeting removal or bypass of key barriers to fish passage. The NAC has worked to make future connectivity restoration projects more efficient by providing the regional information to allow strategic selection of projects most likely to produce ecological benefits.

2007 [Northeastern Terrestrial Wildlife Habitat Classification](#)

State fish and wildlife agencies need a consistent habitat classification system to build current, digital habitat maps to effectively implement State Wildlife Action Plans that help protect wildlife and their habitats. In response to this growing need, the Northeast Terrestrial Wildlife Habitat Classification System (NETWHCS) was developed.

2007 [Northeastern Aquatic Habitat Classification Project](#)

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2008 [Regional Indicators and Measures Beyond Conservation Land](#)

This project, in collaboration with another RCN Project, [Conservation Status of Fish, Wildlife and Natural Habitats in the Northeast Landscape](#), reported on the status of approximately 30 key indicators and measures specific to eight habitats and two regional species groups in the northeast.

2008 Regional Focal Areas for Species of Greatest Conservation Need Based on Site Adaptive Capacity, Network Resilience and Connectivity

Resilience concerns the ability of a living system to adjust to climate change, to moderate potential damages, to take advantage of opportunities, or to cope with consequences, in short, its capacity to adapt. The goal of this project was to identify the most resilient examples of key geophysical settings (sand plains, granitic mountains, limestone valleys, etc.) in relation to species of greatest conservation need, to provide conservationists with a nuanced picture.

2008 Development of Model Guidelines for Assisting Local Planning Boards with Conservation of Species of Greatest Conservation Need and their Key Habitats through Local Land Use Planning

The major goals of this project were to integrate conservation information on Species of Greatest Conservation Need (SGCN) and their habitats with land use planning decisions. The intent is for decision-makers, particularly those at a local scale and volunteers who may not have extensive training, to be able to access the information they need to answer their questions within a few simple keystrokes.

2009 Geospatial Condition Analysis of Northeast Habitats based on the Northeast SGCN Habitat Maps

This project will evaluate and summarize the current condition of terrestrial and aquatic habitats across a region of thirteen states using region-wide habitat maps of streams ([Northeastern Aquatic Habitat Classification System](#)) and terrestrial ecosystems.

2009 Development of an Online Database to Enhance the Conservation of SGCN Invertebrates in the Northeastern Region

This project produced a [web-accessible database](#) designed for real-world, museum-specimen data, that allows individual researchers or institutions to upload invertebrate data and accommodates multiple taxonomic lineages. The database fills the current data void that exists for invertebrates in the Northeast Region.

2010 Assessing the Likely Impacts of Climate Change on Northeastern Fish and Wildlife Habitats and Species of Greatest Conservation Need

In a project extending from Maine to Virginia, the Northeastern Association of Fish and Wildlife Agencies (NEAFWA), [Manomet Center for Conservation Sciences](#) (Manomet), and the [National Wildlife Federation](#) (NWF) are collaborating with other major northeastern stakeholders, including federal agencies and nonprofit organizations, to protect fish and wildlife and their habitats.

2011 Northeast Regional Conservation Synthesis for State Wildlife Action Plan Revisions

The Northeast Region has a long and productive history of collaboration and coordination for the protection and management of natural resources. This partnership has been enhanced in recent years through the teamwork of the Northeast Fish & Wildlife Diversity Technical Committee, the RCN program and the LCCs (e.g., North Atlantic and Appalachian). States have collectively contributed nearly \$1.4M to completed regional projects since the inception of the RCN.

2011 [A Guide to the Aquatic Habitat Map](#)

The goal of this project is to ensure the understanding and widespread use of the [Northeast Aquatic Habitat classification system](#) by creating a printable, web-based guide to the Northeast Aquatic Habitat Classification and GIS database.

2011 [Conservation Assessment of Odonata \(Dragonflies and Damselflies\) in the Northeastern Region](#)

This project will conduct the first region-wide conservation assessment for an invertebrate taxon, the order Odonata (dragonflies and damselflies). Over 230 species occupy a wide range of forested lentic and lotic habitats in the northeast region and this project will follow a procedure similar to assessments already conducted in the northeast for certain vertebrate taxa (e.g., birds, reptiles and amphibians).

2013 [Laboratory and Field Testing of Treatments for White Nose Syndrome Immediate Funding Need for the Northeast](#)

Hibernating bats in the NE USA have experienced sudden and dramatic declines over the past three winters due to an emerging infectious disease dubbed white nose syndrome (WNS). As of January, 2012, new estimates of the number of bats that have died thus far range from 5.7 to 7.7 million, and the causative agent is now known to be the cold-loving fungus *Geomyces destructans* (Gd).

2013 [Distribution and Conservation Status of the Newly Described Species of Leopard Frog in the Coastal NE](#)

The recent discovery of a cryptic species of leopard frog in the Northeast means that nine states (CT, DE, MA, MD, NJ, NY, PA, RI, VA) may have to redefine their faunal checklists and/or lists of Species of Greatest Conservation Need. The new leopard frog appears to be of conservation concern in at least portions of its range, and until the states are able to address some basic information gaps, conservation efforts in the Northeast will be challenged with uncertain taxonomic statuses.

2013 [The Northern Diamondback Terrapin \(*Malaclemys terrapin terrapin*\) in the NE United States A regional conservation strategy](#)

This project will result in the development of a regional, landscape level, multi-partner conservation strategy/plan that focuses on the conservation, management, and protection of the northern diamondback terrapin and its habitat in eight states of the Northeast/mid-Atlantic regions (Massachusetts to Virginia). The overarching goal of this proposal is a conservation strategy/plan that will help achieve long-term sustainability of the northern diamondback terrapin population in the Northeast and mid-Atlantic.

2013 [The conservation status of the brook floater mussel, *Alasmidonta varicosa*, in the Northeastern United States trends in distribution, occurrence, and condition of populations](#)

This project's goal is to determine the conservation status of the brook floater mussel in the Northeastern U.S. Brook floaters have declined rapidly throughout their range due to habitat loss, stream fragmentation, loss of riparian vegetation buffers, upstream land degradation, pollution, altered flow regimes, extreme spring floods, and summer droughts. While the Northeast holds the largest brook floater populations range wide, our long-term research shows populations once large and robust have either declined by 50 to 95% or are gone completely. Brook floater mussel occurrence record data will be gathered from the 12

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northeastern states. A comprehensive data set will be compiled and mapped using GIS and an inventory of threats will be identified based on aerial imagery.

2013 Assessment and evaluation of prevalence of fungal dermatitis in New England Timber Rattlesnake populations

Historically, the Timber Rattlesnake (*Crotalus horridus*) occurred in all six New England states. The species is now extirpated from Maine and Rhode Island, and is close to extirpation in New Hampshire and Vermont with only one and two remaining populations, respectively. Since 2009, Timber Rattlesnakes from separate populations in eastern, central, and western Massachusetts have been found to have significant disease, identified as fungal dermatitis. To determine if fungal dermatitis is present, blood samples, tissue samples, and a physical examination will be conducted on all Timber Rattlesnakes in the study.

2013 Identification of Tidal Marsh Bird Focal Areas in Bird Conservation Region 30

This project will determine state level responsibility for the conservation of tidal marsh bird species and provide the baseline for long-term monitoring of the entire tidal marsh bird community along the Atlantic coastline from Virginia to Maine (Bird Conservation Region 30).

2014 The Wood Turtle (*Glyptemys insculpta*) in the Northeastern United States A Status Assessment and Conservation Strategy

Wildlife biologists throughout the Northeast have expressed concern for the conservation status of wood turtles and have suggested that the species warrants federal listing consideration. More recently, wood turtles have been identified by the Northeast Partners in Amphibian and Reptile Conservation ([NEPARC](#)) as a species of regional conservation concern, because it is listed in >75% of northeastern State Wildlife Action Plans. Existing data on Wood Turtles will be gathered and standardized. In areas that are data-deficient, standardized Wood Turtle surveys will be conducted.