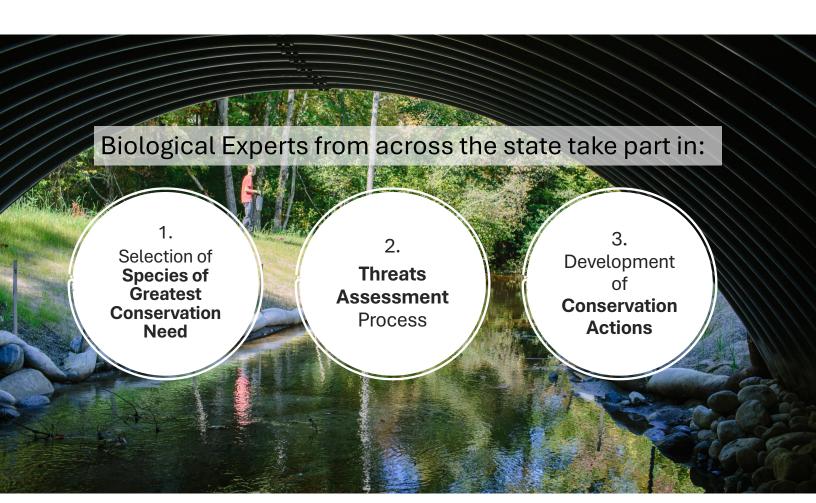


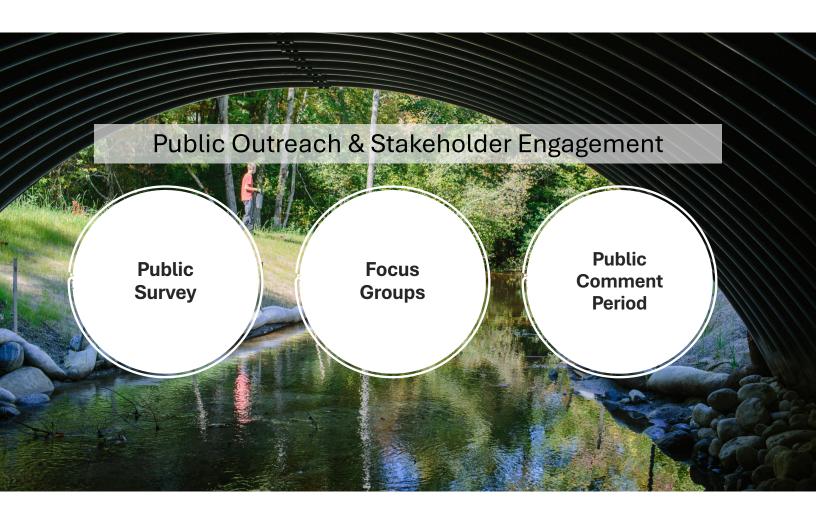
NH Wildlife Action Plan

- Protect rare, threatened, and endangered species
- Keep common species common
- Provide a roadmap for NH to conserve wildlife and habitats



What is the process for revising the Wildlife Action Plan?







What can I use the Wildlife Action Plan for?

takingactionforwildlife.org

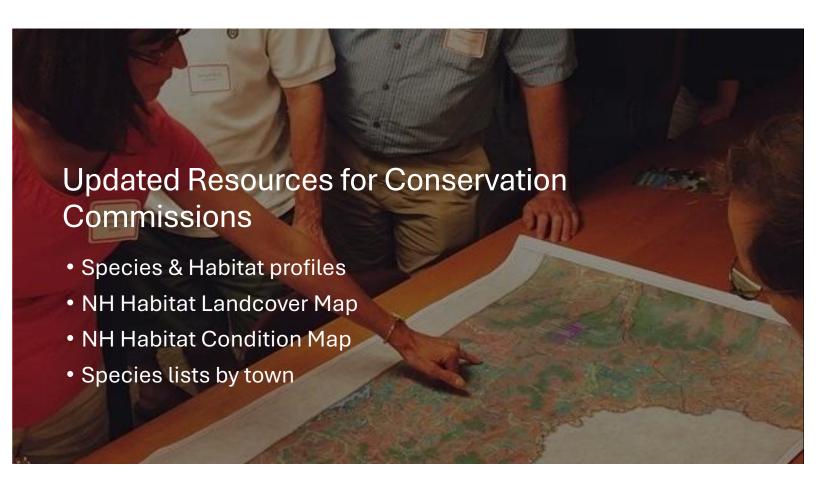
- Conserving Land
- Developing or Updating a Natural Resource Inventory
- Informing Land Use Planning
- Developing Community Conservation Projects



What can I use the Wildlife Action Plan for?

takingactionforwildlife.org

- Inventorying
- Prioritizing
- Planning
- Conserving



138 Wildlife Species of Greatest Conservation Need











Photos by Matt Tarr (UNHCE), Jesse Rorabaugh, USFWS, and Josh Megyesy (NHFG)

188 Plant Species of Greatest Conservation Need

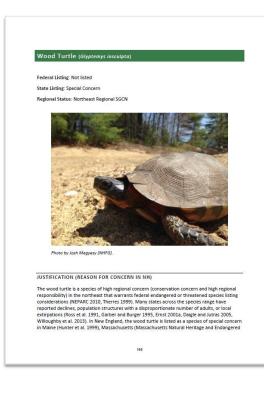




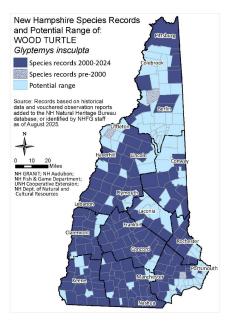














28 Key Habitat Types











Coldwater Rivers and Streams

Miles in NH: 14,702

Average Percent Conserved (Within a 250m Buffer): 35

HABITAT DESCRIPTION

Coldwater rivers and streams are defined by their ability to maintain cold water temperature during the hot summer months. The presence of coldwater fish species, including brook trout and slimy sculpin, is often an indicator of coldwater river or stream habitat. Brook trout are rarely found in rivers or streams that exceed a mean temperature of 20°C during the months of July and August. Although temperatures may rise above 20°C for short durations, extended periods of higher water temperatures typically preclude the presence of brook trout and other cold water dependent species.

Coldwater Rivers and streams are more common in northern New Hampshire and at higher elevations where a cooler local climate causes less warming throughout the summer. In southern New Hampshire and at lower

southern New Hampshire and at lower elevations, the presence of coldwater streams depends primarily on the influence of groundwater. Streams fed by an abundant source of groundwater maintain suitable temperatures for coldwater species during periods of hot weather.

Coldwater streams vary in size and gradient. High gradient coldwater streams, typical of the mountainous regions in northern and western New Hampshire, are characterized by cascades and small waterfalls flowing over boulders and ledge. Flows are highly variable and water levels often react quickly to rainfall. There are relatively few aquatic species that are able to survive in this unstable environment. Resident species include brook trout and stream salamanders (e.g. spring salamanders). In streams with moderate gradient, substrate usually shifts from boulder to cobble or gravel. Riffles, pools, meander bends, and undercut banks are common habitat features and slimy sculpin, longnose sucker, and burbot may be present in addition to brook trout. Low gradient spring fed streams, typically found at lower elevations, are

Coldwater river and stream habitat distribut

and other infrastructure. Cold water streams are also vulnerable to habitat degradation such as streamside vegetation removal and stormwater runoff from impervious surfaces. Much of the coldwater stream habitat in the northeast has been fragmented by dams and undersized stream crossings, which restrict the movements of coldwater fish species.

PROTECTION AND REGULATORY STATUS

- Rivers Management and Protection Program NHDES
- Comprehensive Shoreland Protection Act NHDES
- Clean Water Act-Section 404

Regulatory Comments: The Clean Water Act is difficult to enforce without baseline temperature and biological community data.

DISTRIBUTION AND RESEARCH

In 2008 The Nature Conservancy (TNC) developed a regio stream and river represent flowing water habitat types in the Northeast based or four major variables size class, gradient. geology, and temperature. This map was used as the starting point for representing aqua habitat types in New Hampshire, but the distribution of coldwater stream habitat needed to be refined. NH Departi



Photo by Matt Carpenter (NHFG)

Services provided an update to the state's coldwater rivers and streams classification using

60





Threats Assessment – Top Threats for 2025

- Pollution
- Invasive and problematic species, genes, & diseases
- 3. Climate Change
- 4. Residential & Commercial Development

SGCN & Habitat Conservation Actions

ACTIONS TO BENEFIT THIS HABITAT IN NH

PROTECT UNFRAGMENTED BLOCKS AND OTHER KEY WILDLIFE HABITATS

Primary Threat Addressed: Habitat conversion due to development

Threat Classification: Residential & Commercial Development

Objective

The objective is to protect the largest and highest quality occurrences of hemlock - hardwood pine forest habitat, with an emphasis on developing and maintaining corridors for wildlife movement and species dispersal. As of 2013, approximately 34% [51,897 acres] of New Hampshire's Tier 1 hemlock - hardwood – pine forests were on protected land. State agencies and private conservation organizations should attempt to protect an additional 5% ("22,000 acres) of Tier 1 hemlock - hardwood – pine forest in the next 10 years.

Durnosa

Protection of the highest priority areas of hemlock – hardwood - pine forest and facilitate their conservation, reducing habitat loss and fragmentation.

Action Details:

NHFG should work with statewide and regional land trusts, as well as funding sources, to facilitate the protection of the highest-quality occurrences of hemlock – hardwood - pine forest habitat in the state.

County:

Statewide

SUPPORT THE DIVISION OF FORESTS AND LANDS IN THE IMPLEMENTATION OF FORES' HEALTH MANAGEMENT PROGRAMS

Primary Threat Addressed: Habitat degradation and mortality from forest pest

Threat Classification: Invasive & other Problematic Species, Genes & Disease

Objective:

128





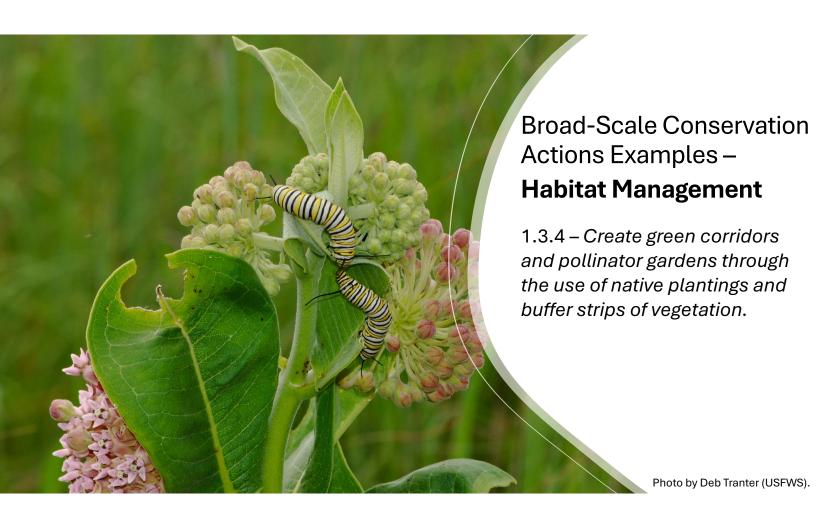


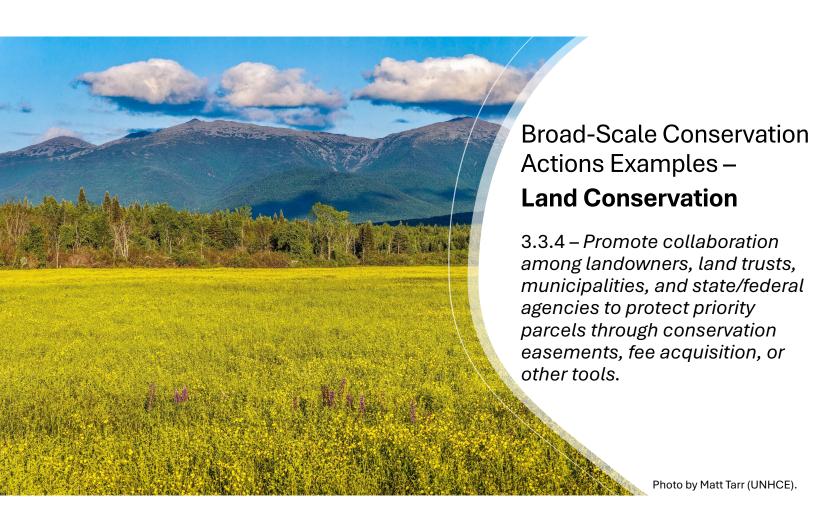
Broad-Scale Conservation Actions

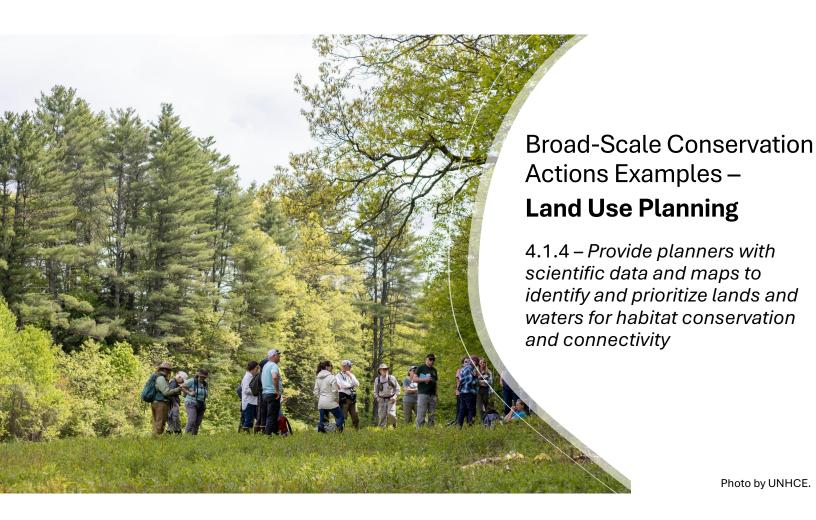
also called "general actions"

- 1. Habitat Restoration and Management
- 2. Species Management
- 3. Land Conservation
- 4. Land Use Planning
- 5. Education, Outreach, and Engagement
- 6. Policy and Governance

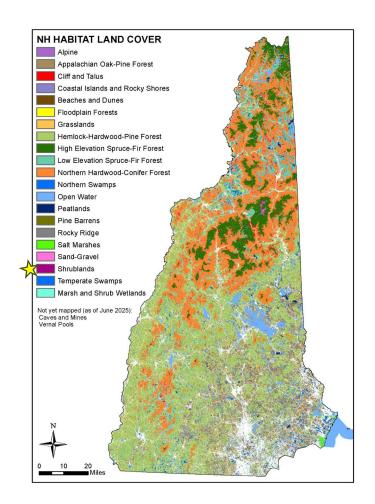


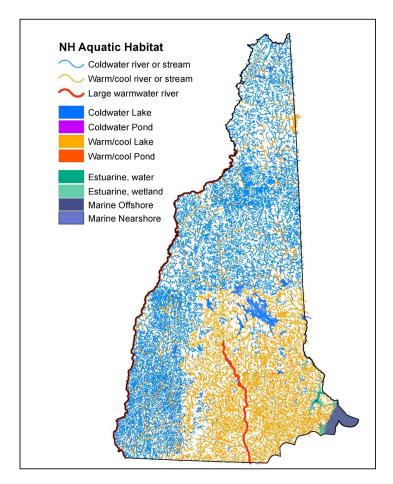


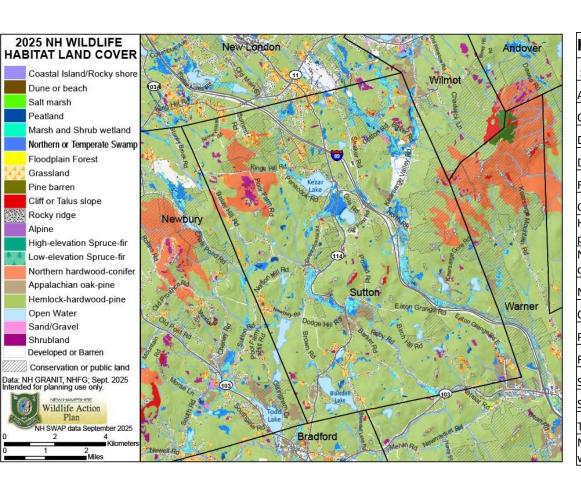












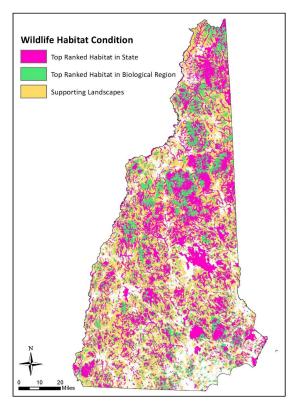
Habitat Type	Acres
SUTTON (town area)	27,735
Appalachian oak-pine	603.5
Cliff and Talus	33.7
Developed	1930.3
Developed Impervious	918.8
Floodplain forest	0.8
Grassland	673.1
Hemlock-hardwood- pine	18936.9
Northern hardwood- conifer	1184.1
Northern swamp	412.7
Open Water	1034.9
Peatland	173.1
Rocky ridge	189.7
Sand-gravel	14.6
Shrubland	358.1
Temperate swamp	357.1
Marsh and shrub wetland	913.4

Potential Species of Greatest Conservation Need

in your town

Common Name	Species			
	Status	Range	Habitats	
Smooth Green Snake	SC, SGCN	Potential	Grasslands, Marsh and Shrub Wetlands, Peatlands, Rocky Ridge, Cliff, and Talus, Rocky Ridge, Cliff, and Talus, Shrublands	
Spotted Turtle	ST, SGCN	Potential	Floodplain Habitats, Marsh and Shrub Wetlands, Peatlands, Temperate Swamps, Vernal Pools	
Wood Turtle	SC, SGCN	Town	Coldwater Rivers and Streams, Floodplain Habitats, Grasslands, Shrublands, Warmwater Rivers and Streams	
American Black Duck	SGCN	Potential	Lakes and Ponds, Rivers and Streams, Marsh and Shrub Wetlands, Northern Swamps, Peatlands, Temperate Swamps	
American Kestrel	SC, SGCN	Irregular	Developed Habitats, Grasslands, Shrublands	
American Woodcock	SGCN	Potential	Appalachian Oak-Pine Forest, Hemlock Hardwood Pine Forest, Marsh and Shrub Wetlands, Northern Swamps, Shrublands, Temperate Swamps	
Black-billed Cuckoo	FT, SGCN	Potential	Appalachian Oak-Pine Forest, Hemlock Hardwood Pine Forest, Pine Barrens, Shrublands	
Bobolink	SGCN	Potential	Grasslands	
Canada Warbler	FT, SGCN	Potential	Hemlock Hardwood Pine Forest, Lowland Spruce-Fir Forest, Northern Hardwood-Conifer Forest, Northern Swamps, Temperate Swamps	
Chimney Swift	SC, SGCN	Potential	Appalachian Oak-Pine Forest, Developed Habitats, Hemlock Hardwood Pine Forest, Lowland Spruce-Fir Forest, Northern Hardwood-Conifer Forest	
Cliff Swallow	ST, SGCN	Historic	Developed Habitats, Grasslands	
Common Loon	ST, SGCN	Town	Lakes and Ponds with Coldwater Habitats, Large Warmwater Rivers, Warmwater Lakes and Ponds, Warmwater Rivers and Streams	
Eastern Towhee	SGCN	Potential	Appalachian Oak-Pine Forest, Peatlands, Pine Barrens, Rocky Ridge, Cliff, and Talus, Rocky Ridge, Cliff, and Talus, Shrublands	
Field Sparrow	SGCN	Potential	Pine Barrens, Shrublands	
Least Bittern	SGCN	Historic	Marsh and Shrub Wetlands	
Northern Goshawk	SGCN	Potential	Appalachian Oak-Pine Forest, Hemlock Hardwood Pine Forest, Lowland Spruce-Fir Forest, Northern Hardwood-Conifer Forest	
Northern Harrier	SE, SGCN	Historic	Grasslands, Marsh and Shrub Wetlands, Peatlands, Salt Marsh, Shrublands	
Olive-sided Flycatcher	FT, SGCN	Potential	Lowland Spruce-Fir Forest, Marsh and Shrub Wetlands, Northern Hardwood-Conifer Forest, Northern Swamps, Peatlands, Temperate Swamps	
Ruffed Grouse	SGCN	Potential	Appalachian Oak-Pine Forest, Grasslands, Hemlock Hardwood Pine Forest, Lowland Spruce-Fir Forest, Marsh and Shrub Wetlands, Northern Hardwood-Conifer Forest, Shrublands	
Scarlet Tanager	FT, SGCN	Potential	Appalachian Oak-Pine Forest, Hemlock Hardwood Pine Forest, Northern Hardwood-Conifer Forest	
Wood Thrush	SGCN	Potential	Appalachian Oak-Pine Forest, Floodplain Habitats, Hemlock Hardwood Pine Forest, Northern Hardwood-Conifer Forest	

Habitat Condition Maps



- Biological factors
- Landscape factors
- Human impact



Habitat Condition Maps

- Biological Factors
 - → Species richness of rare wildlife
 - → Species richness of rare plants
- Landscape Factors
 - → Total habitat area
 - → Habitat connectedness
- Human Impacts
 - → Distance to nearest road
 - → Percent of impervious surface



Wildlife Habitat Condition Top Ranked Habitat in State Top Ranked Habitat in Biological Region Supporting Landscapes

Top Ranked Habitat in the State =

- → Top 15% of all habitats statewide
- → 100% of alpine, dunes, coastal islands/rocky shore, and salt marsh habitats

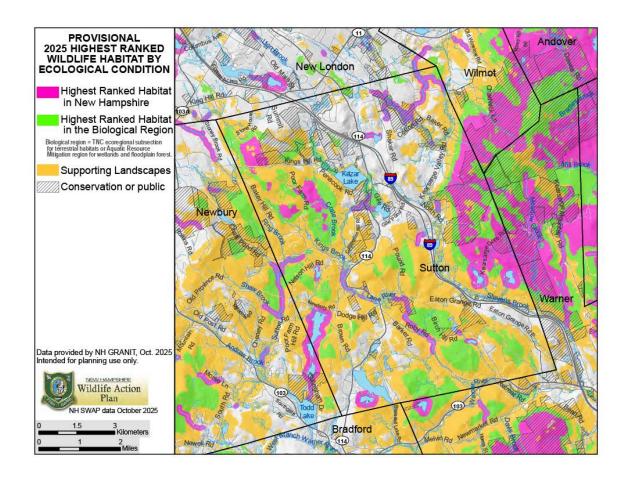
Top Ranked Habitat in Biological Region =

- → Top 30% of all habitats by ecoregion
- → 100% of high-elevation spruce-fir and floodplain habitats

New Hampshire FISH AND GAME

Supporting Landscapes

→ Top 50% of all habitats by ecoregion



Community Engagement & The Wildlife Action Plan

- Host a BioBlitz
- Create an iNaturalist Project for your town
- Host a nature walk
- Reach out to landowners
- Create a social media campaign
- Create a town pollinator garden





