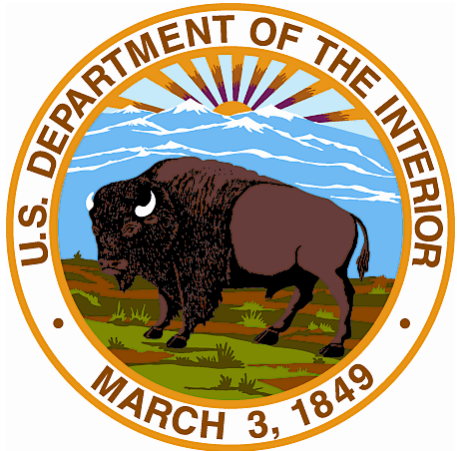


# An Overview of Priority At-Risk Species Conservation in the North Atlantic –Appalachian Region



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Science Applications



# What is an At-Risk Species?

May include any declining species not listed under the Endangered Species Act, such as:

- state-listed species,
- species identified by states as species of greatest conservation need, or
- species ranked by heritage programs as globally imperiled.



*Frosted Elfin, Peaks-of-Otter Salamander, Wood Turtle, Northern Virginia Well Amphipod, Saltmarsh Sparrow, Chesapeake Logperch, Spotted Turtle*



# Why?

If we act early, we can give at-risk fish, wildlife and plants a chance – before they become threatened or endangered.



*Photo by USFWS*



# How?

## Effective

We are working with partners to identify the species that offer the greatest opportunity for conservation success.



*Photo by Jim Butler*

A 1997 conservation agreement between the USFWS, US Forest Service and National Park Service continues to provide conservation benefits to the Peaks of Otter salamander.



# How?

## **Collaborative**

We are engaging a broad set of partners to develop creative and collaborative solutions. Working outside the regulatory realm can encourage long-term commitments from industries, business and landowners.





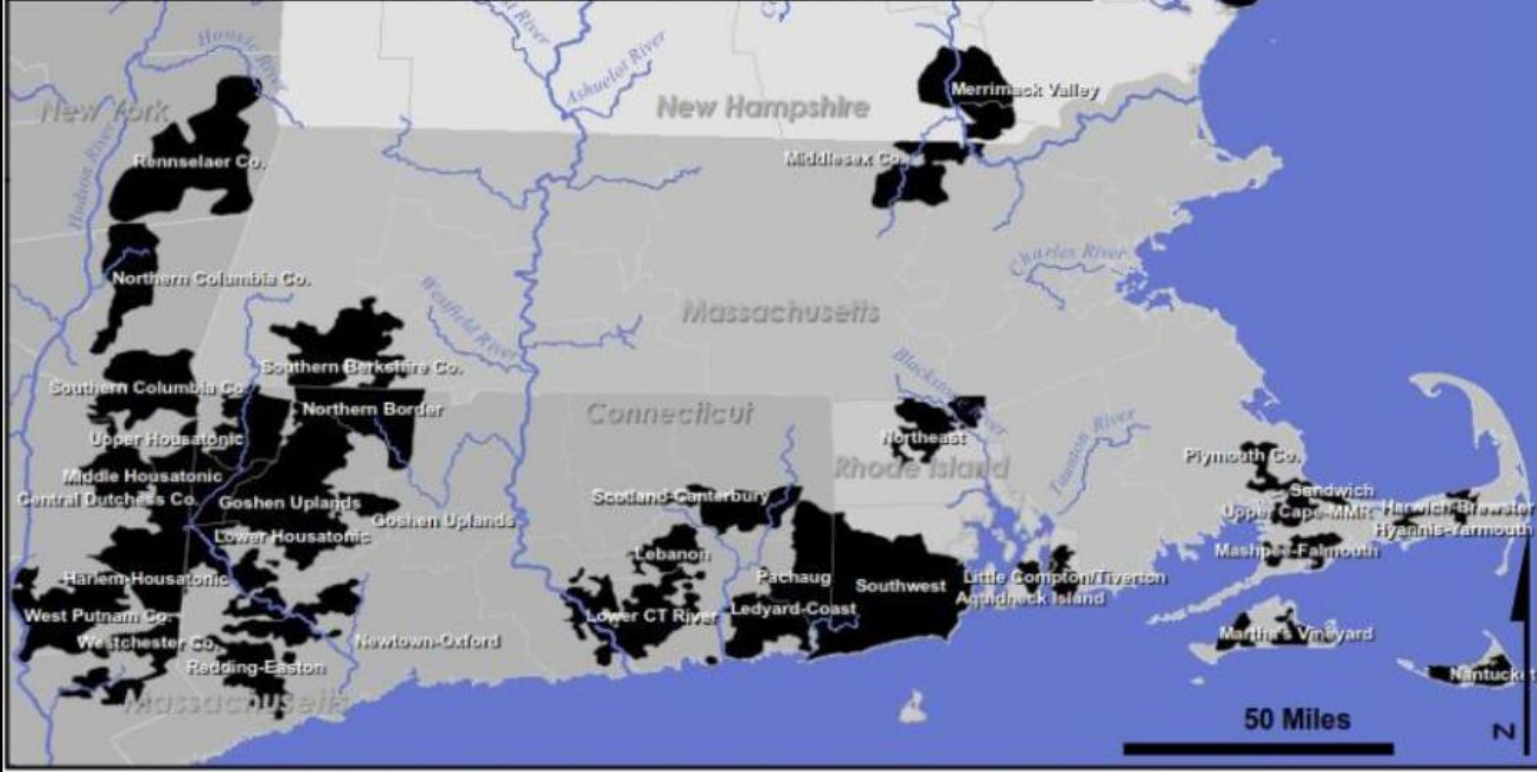
## New England Cottontail Conservation Focus Areas

### RECOVERY GOALS

Goal Level	Habitat (acres)	Population (N)
USFWS* Range-wide Goals	27,000	13,500
Connecticut	19,000	9,500
Massachusetts	6,800	4,500
Maine	3,640	1,150
New Hampshire	2,000	1,000
New York	10,000	5,000
Rhode Island	1,000	500
Total All State Goals	42,440	21,650
Total All Focus Area Sub-Goals	51,665	28,100

\*Per NH CCAA (Federal Register: 75 FR 66122 66123)

■ NEC Focus Areas  
Approved 10/18/2012



# How?

## Strategic

We are aligning work across our agency, with states, and with private and public partners, using the best science available to target the right conservation actions in the right places for maximum impact.

# How?

## Complementary

Proactive work on at-risk species does not replace, but compliments our other work, including listing and recovering wildlife.



*Photos by USFWS*





Photo by USFWS

## How?

### **Adaptive**

The Service's conservation planning work will employ the principles of adaptive management, by employing science that resolves uncertainties and monitoring outcomes. Likewise, our interactions with partners, landowners and staff while emphasizing the importance of trust and meeting their needs.





Saltmarsh Sparrow  
(*Ammodramus caudacutus*)





Chesapeake logperch  
(*Percina bimaculata*)



# Northeast Turtles



Blanding's turtle  
(*Emydoidea blandingii*)



Wood Turtle  
(*Glyptemys insculpta*)



Spotted Turtle  
(*Clemmys guttata*)



# Pine Barrens



Frosted Elfin Butterfly  
(*Callophrys irus*)



Eastern whip-poor-will  
(*Caprimulgus vociferus*)





**American Bumblebee**

*(Bombus pensylvanicus)*

**Gypsy/Ashton's Cuckoo Bumblebee**

*(Bombus bohemicus/ashtoni)*

**Lemon Cuckoo Bumblebee**

*(Bombus citrinus)*

**Variable Cuckoo Bumblebee**

*(Bombus variabilis)*

**Yellow Banded Bumblebee**

*(Bombus terricola)*

**Monarch**

*(Danaus plexippus plexippus)*


# Farmland Pollinators




Photos by USFWS



# Diadromous Fishes



Blueback Herring  
(*Alosa aestivalis*)



Alewife  
(*Alosa pseudoharengus*)



# Atlantic Coast Beach and Shore Birds



American Oystercatcher  
(*Haematopus palliatus*)



Ruddy Turnstone  
(*Arenaria interpres*)



Whimbrel  
(*Numenius phaeopus*)



# Freshwater Mussels

## Brook Floater

(*Alasmidonta varicosa*)

## Yellow Lampmussel

(*Lampsilis cariosa*)

## Tidewater Mucket

(*Leptodea ochracea*)

## Cumberland Moccasinshell

(*Medionidus conradicus*)

## Tennessee Clubshell

(*Pleurobema oviforme*)





# Science Species

- Appalachian grizzled skipper
- Bethany Beach firefly
- Bluestone sculpin
- Clinch dace
- Eastern Argos skipper
- Greenbrier Cave crayfish
- Large flowered Barbara's Button
- Northeastern stoneflies
- Northern bog lemming
- Septima's clubtail
- Spider elimia
- Tennessee pondweed

