

Appendix A



Wood turtle: Ian Shackleford/USFS

Species and Habitats of Conservation Concern Known or Suspected on the Refuge

- Birds
- Mammals
- Fish
- Amphibians and Reptiles
- Plants
- Plant Communities

Table A.1. Birds of Conservation Concern Known or Suspected on the Refuge.

Species	Status ¹⁰	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³	BCC 2008 ⁴	BCC National ⁵	BCR 14: Atlantic Northern Forests	PIF ⁶	NAWMP ACJV ⁸	US SCP ⁹
American black duck	B			X						High	
American redstart	B							Moderate			
American woodcock	PB			X				Highest	I		4
Bald eagle	PB		E	X	S1	X	X		IV		
Bay-breasted warbler	M			X		X	X	Highest	I		
Bicknell's thrush	M		SC	X	S2S3B	X	X	Highest	I		
Black-throated blue warbler	B							Moderate	IIB		
Black-throated green warbler	B							Moderate	IIB		
Blackburnian warbler	B							Moderate	IIB		
Blue-winged warbler	PB					X	X	High			
Boreal chickadee	M							Moderate	IIA		
Brown thrasher	PB				S3						
Canada warbler	PB			X		X	X	Highest	I		
Cape May warbler	M				S3B			High	I		
Chestnut-sided warbler	B							High			
Common loon	PB		T	X	S3B			Moderate	IV		

Species	Status ¹⁰	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³	BCC 2008 ⁴	BCC National ⁵	BCR 14: Atlantic Northern Forests	PIF ⁶	NAWMP ACJV ⁸	US SCP ⁹
Common merganser	B									Moderate Low	
Cooper's hawk	PB		T	X	S2B						
Eastern wood-peewee	B							High	IIA		
Mallard	PB									High (B), Moderate (NB)	
Northern goshawk	B			X	S3						
Northern parula	M							Moderate	IIB		
Olive-sided flycatcher	M					X	X	High	IIA		
Osprey	M		T	X	S2B				IV		
Ovenbird	B							Moderate			
Pileated woodpecker	B										
Purple finch	B			X				Moderate	IIA		
Red-shouldered hawk	PB		SC	X	S3						
Rose-breasted grosbeak	B							Moderate			
Ruffed grouse	PB			X				Moderate	IIA		
Rusty blackbird	M			X	S2	X	X	High			
Scarlet tanager	B										
Veery	B			X				High	IIA		

Species	Status ¹⁰	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³	BCC 2008 ⁴	BCC National ⁵	BCR 14: Atlantic Northern Forests	PIF ⁶	NAWMP ACJV ⁸	US SCP ⁹
Wood duck	PB							Moderate			
Wood thrush	B			X		X	X	Highest	I		
Yellow-bellied sapsucker	B							Moderate	IIA		

1 Federal and State Legal Status Codes (under Federal & State Endangered Species Acts)

E = Federal or State Endangered T= Federal or State Threatened SC= State species of Special Concern (Administrative category without legal standing)
 PT = Proposed Threatened PE= Proposed Endangered PN= Proposed None PTB= Proposed threatened (breeding only) PEB= Proposed Endangered (breeding only)

2 New Hampshire Wildlife Action Plan: Species of greatest conservation concern (NH FGD 2005)

3 New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

S1 = Critically imperiled.
 S2 = Imperiled
 S3 = Either very rare or uncommon, vulnerable
 S4 = Widespread, abundant, apparently secure
 S5= Secure
 SH = Historical.
 B = Breeding
 N = Non-breeding
 Species included in table only if Srank < S3

4 Birds of Conservation Concern 2008 (Bird Conservation Region 14 List) (USFWS 2008)

5 Birds of Conservation Concern National List (USFWS 2008)

6 Partner's in Flight (PIF) Bird Conservation Plan for Eastern Spruce-Hardwood Forest: Physiographic Area 28 (Rosenberg and Hodgman 2000)

IA = High continental concern & high regional responsibility
 IB = High continental concern & low regional responsibility
 IIA = High regional concern

IIB = High regional responsibility
III = Additional Federal listed
IV = Additional State listed

7 North American Waterbird Conservation Plan (NAWCP) Categories of Conservation Concern (Kushlan et al. 2002)

Highly Imperiled: includes all species with significant population declines and either low populations or some other high risk factor.

High Concern: Species that are not Highly Imperiled. Populations of these species are known or thought to be declining, and have some other known or potential threat as well.

Moderate Concern: Species that are not Highly Imperiled or High Concern. Populations of these species are either a) declining with moderate threats or distributions;

b) stable with known or potential threats and moderate to restricted distributions; or c) relatively small with relatively restricted distributions.

Species included in table only if >moderate

8 North American Waterfowl Management Plan (NAWMP), Atlantic Coast Joint Venture (ACJV) (ACJV 2005)

B = breeding species prioritization

NB = non-breeding species prioritization

Conservation Tier Priorities = Highest, High, Moderately High, Moderate, Moderately Low, Low

Species included in table only if priority moderate or higher

9 U.S. Shorebird Conservation Plan Codes (US SCP) (Brown et al. 2001, Clark and Niles 2000)

5 = Highly imperiled

4 = Species of high concern

3 = Species of moderate concern

2 = Species of low concern

1 = Species not at risk

Species included in table only if >3

10 Breeding Status

B = Breeds on Refuge, PB=Potentially Breeds on Refuge, M=Migration

Table A.2. Mammals of Conservation Concern Known or Suspected on the Refuge.

Species	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³
Black bear			X	S5
Moose			X	S5
White-tailed deer			X	S5

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² N.H. Wildlife Action Plan: Species of greatest conservation concern (NH FGD 2005)

³ New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

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 Species included in table only if Srank < S3

Table A.3. Fish of Conservation Concern Known or Suspected on the Refuge.

Species	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³
Brook trout			X	S5
Burbot			X	S5
Lake trout			X	S5
Northern redbelly dace			X	S5
Rainbow smelt	SC		X	S3

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³ New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

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 Species included in table only if Srank < S3

Table A.4. Amphibians and Reptiles of Conservation Concern Known or Suspected on the Refuge.

Species	Federal Legal Status ¹	NH Legal Status ¹	NH Wildlife Action Plan ²	NH Rarity Rank ³
Blue-spotted salamander			X	S4
Wood turtle		SC	X	S3

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² N.H. Wildlife Action Plan: Species of greatest conservation concern (NH FGD 2005)

³ New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

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 S3 = Either very rare or uncommon, vulnerable
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 S5= Secure
 SH = Historical.
 B = Breeding
 N = Non-breeding
 Species included in table only if Srank < S3

Table A.5. Plants of Conservation Concern Known or Suspected on the Refuge.

Species	Federal Legal Status ¹	NH Legal Status ¹	NH Rarity Rank ²
Loesel's twayblade		T	S2

¹ Federal and State Legal Status Codes (under Federal & State Endangered Species Acts)

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² New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

S1 = Critically imperiled.
 S2 = Imperiled
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 S5= Secure
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 Species included in table only if Srank < S3

Table A.6. Plant Communities of Conservation Concern Known or Suspected on the Refuge.

New Hampshire Exemplary Natural Community Type	NH Wildlife Action Plan¹	NH Natural Heritage Inventory State Rarity Rank²
Rich red oak rocky woods	Talus slopes	S2S3

¹ N.H. Wildlife Action Plan: Habitats of greatest conservation concern (NH FGD 2005)

² New Hampshire Natural Heritage Inventory Rarity Ranks (NH FGD 2005, NatureServe 2009)

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S3 = Either very rare or uncommon, vulnerable

S4 = Widespread, abundant, apparently secure

S5= Secure

SH = Historical.

B = Breeding

N = Non-breeding

Species included in table only if Srank < S3

Sources for the Conservation Lists used for these tables:

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