

Steering Committee Meeting December 12, 2019

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RSA 227:G

biologically diverse populations of plants and animals

















Wildlife Division

- Habitat Technical Assistance
- Threatened and Endangered Species
- Habitat Projects
- Pheasant Stocking







Inland Fisheries Division

- Habitat Technical Assistance
- Trout Stocking

















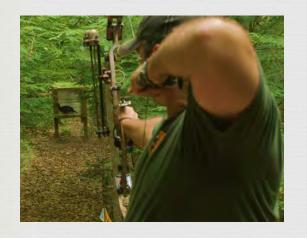
Law Enforcement Division

- Fishing and hunting enforcement
- Threatened and Endangered species laws
- OHRV enforcement









Public Affairs Division

Archery Course



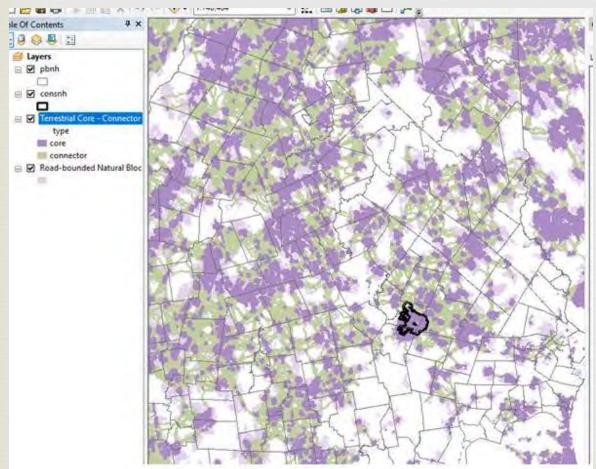
Facilities & Lands Division

Archery Pond









Northeast cores-andconnectors



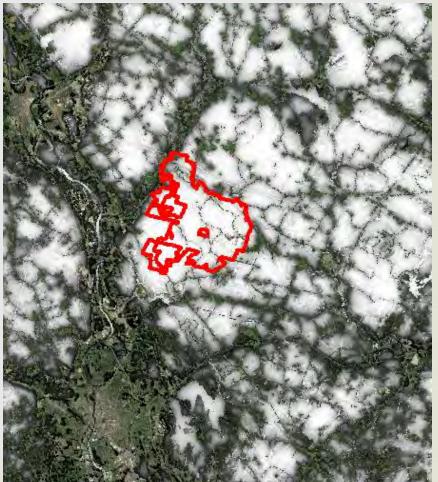






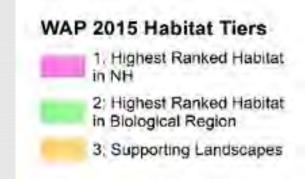
UMASS – Index of Ecological integrity — a coarse filter of landscape ecological integrity, defined as the ability of an area to sustain ecological functions over the long term; in particular, the ability to support biodiversity and the ecosystem processes necessary to sustain biodiversity over the long term.

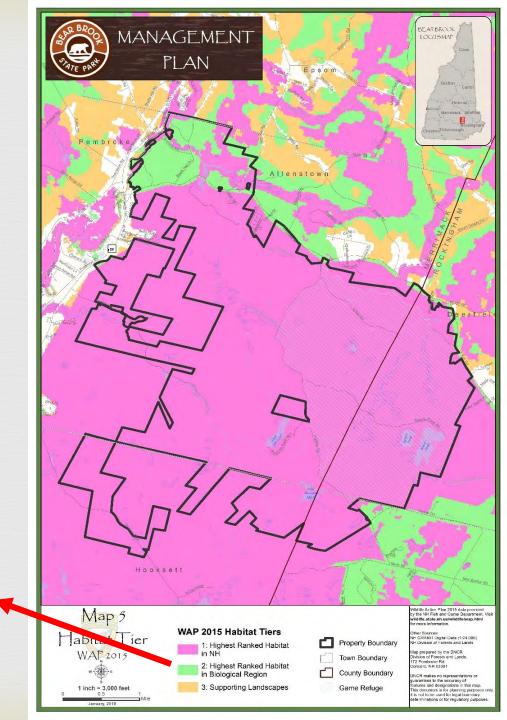




2015 NH Wildlife Action Plan

Habitat Condition





Wetlands and Aquatic Habitats







PONDS



Name	Size (acres)	Size (acres) How Formed			
Archery	1	Dam	Fishing – stocked		
Bear Hill Pond	30	Dam	Fishing - warmwater		
Beaver Pond	62	Dam	Fishing - warmwater		
Catamount	16	Dam	Fishing - stocked		
Hall Mountain Marsh	21	Dam	Waterfowl		
Hayes Marsh	69	Dam	Waterfowl		
Smith Pond	33	Natural	Fen/Bog		
Spruce Pond	21	Natural	Fishing - warmwater		

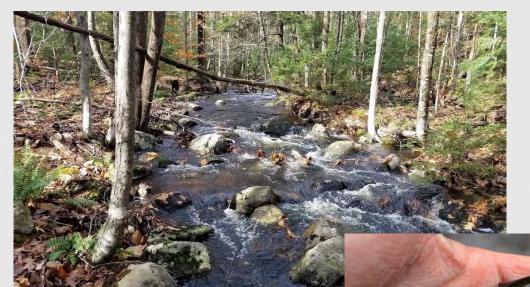


Wildlife Habitat Management









Streams

• 31 miles











Beaver Ponds

• 5 ponds - 63 acres

Vernal Pools

Not cataloged











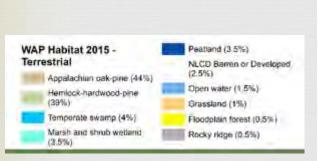
Peatlands

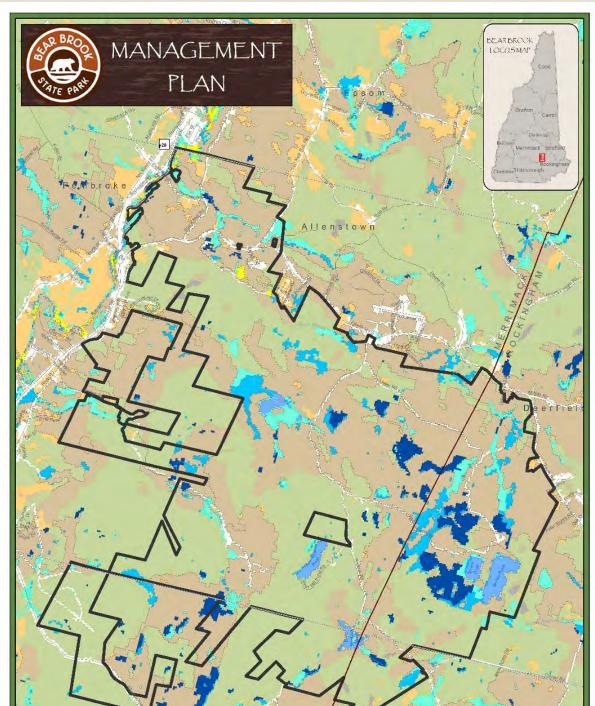
• 115 - 360 acres

Marsh and Shrub Wetlands

• 400 acres

Terrestrial Habitat Types











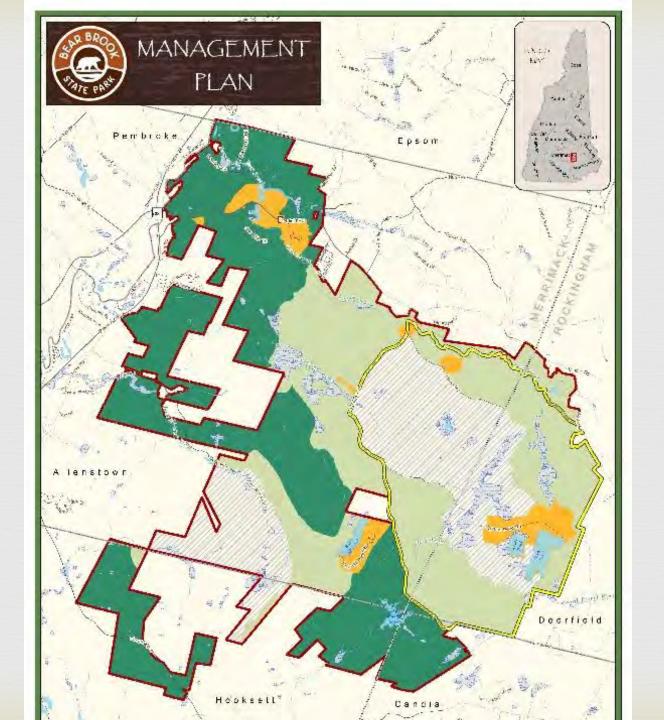






Hemlock-Hardwood-Pine

• 3,900 acres (39% of park)

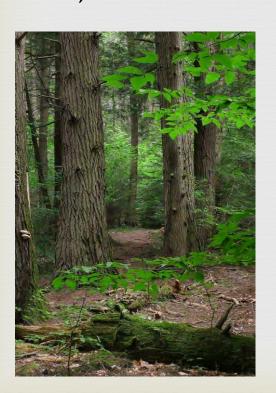








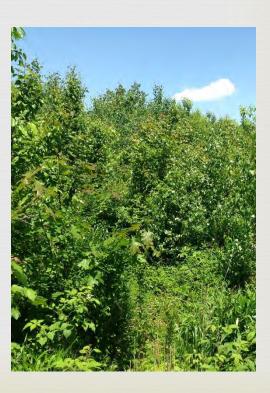
Criteria 1
2,167 acres



Criteria 2
3,426 acres



Criteria 3 3,904 acres









Grasslands/Upland Openings

Type	Number	Acres	Avg Size
Field/Grass	14	96.66	6.90
Landing	8	1.73	0.22
ROW	1	14.15	14.15
Sand	2	8.95	4.48
Gravel	1	2.41	2.41
TOTAL	26	123.90	











Rocky Ridges

• 50 acres











Threatened and Endangered Species (RSA 212:A)



















Invertebrates

- Little information
- Potential SGCN







INVERTEBRATE	SPECIES STATUS*
American Bumble Bee	SGCN
Monarch	SC, SGCN
Pine Barrens Lepidoptera	SGCN
Ringed boghaunter	END, SGCN
Rusty-patched Bumble Bee	FE, SE, SGCN
Skillet clubtail	SC, SGCN
Yellow Bumble Bee	SGCN
Yellowbanded Bumble Bee	SGCN
Brook Floater	SE, SGCN







Reptiles and Amphibians

- 8 frogs and toads
- 8 salamanders
- 10 snakes



	SPECIES	
AMPHIBIANS	STATUS*	
FROGS		
Northern leopard frog	SC, SGCN	
SALAMANDERS		
Blue-spotted salamander	SGCN	
Blue-spotted/Jefferson salamander complex	SC, SGCN	
REPTILES	STATUS	
SNAKES		
Eastern ribbon snake	SGCN	
Smooth green snake	SC, SGCN	
Northern black racer	ST, SGCN	
Timber rattlesnake	SE, SGCN	
TURTLES		
Blanding's turtle	SE, SGCN	
Spotted turtle	ST, SGCN	
Wood turtle	SC, SGCN	







Birds

- 101 species recorded
- 75 songbirds
- 8 raptors
- 6 waterfowl
- 6 wetland birds
- No surveys for secretive wetlands birds







BIRD	SPECIES STATUS*		
American black duck	SGCN		
American kestrel	SC, SGCN		
American woodcock	SGCN		
Bald eagle	SC, SGCN		
Black-billed cuckoo	SGCN		
Bobolink	SGCN		
Brown thrasher	SGCN		
Canada warbler	SGCN		
Chimney swift	SGCN		
Eastern towhee	SGCN		
Eastern whip-poor-will	SGCN		
Field sparrow	SGCN		
Northern goshawk	SGCN		
Prairie warbler	SGCN		
Purple finch	SGCN		
Ruffed grouse	SGCN		
Scarlet tanager	SGCN		
Veery	SGCN		
Wood thrush	SGCN		







Ruffed Grouse & Turkey Survey

- 10 mile route
- 10 stops
- Listen for 4 mins

• Avg 1.5 grouse and 1.9 turkey since 2001









Wood Duck Reproduction

- 10 boxes
- High Use
 - 65% Hall Mtn Marsh
 - 80% Hayes Marsh
 - 50:50 Hooded Mergs vs Wood Ducks









Pheasant Stocking

- > 100 year tradition
- Oct 1 Dec 31
- North end of Blackhall Rd









Mammals

- Up to 50 species
- 8 SGCN
- Moose/Bear uncommon
- Furbearers relatively common

MAMMAL	SPECIES STATUS*		
Big Brown Bat	SC, SGCN		
Eastern Red Bat	SC, SGCN		
Hoary Bat	SC, SGCN		
Little Brown Bat	SE, SGCN		
Moose	SGCN		
Northern long-eared bat	FT, SE, SGCN		
Silver-Haired Bat	SC, SGCN		
Tricolored Bat	SE, SGCN		











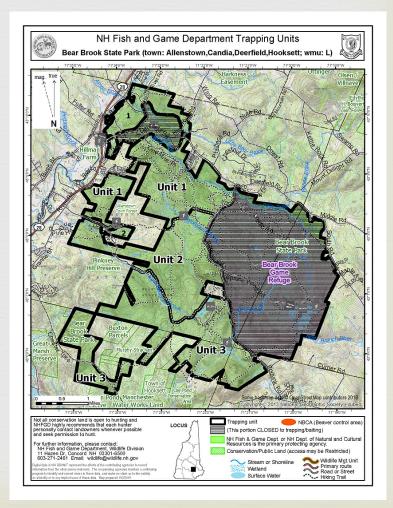


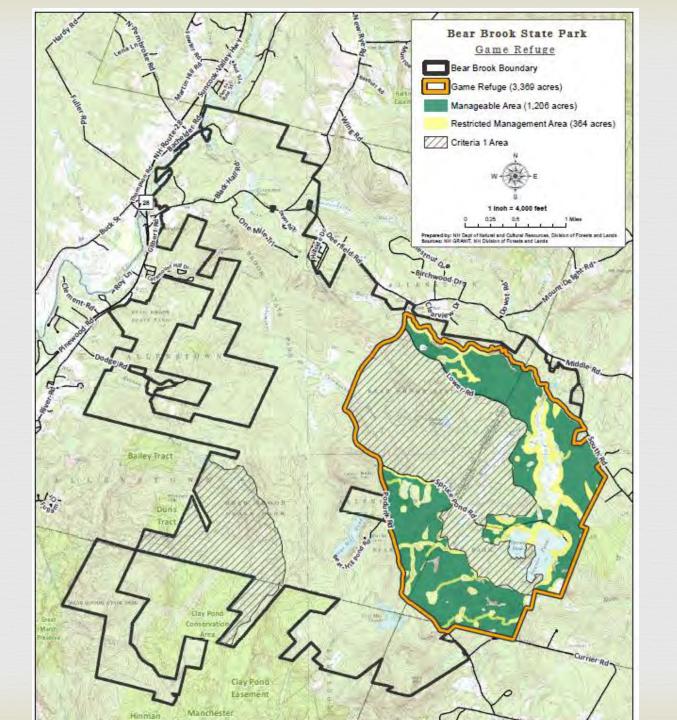


Mammals

- White-tailed deer
 - Game Refuge 1943 low pops
 - Today over goal
 - NHFG Big Game Plan \$\frac{1}{22}\%



















Focal Species & Management Recommendations

- SGCN
- Potential habitat impacts
- Social or economic importance
- 30 species
 - Fish 1
 - Herps 7
 - Birds 14
 - Mammals 8

FISH

Focal Species: Eastern Brook Trout

Relevant Criteria: 1, 2, 3, 4

Justification: SGCN species that is sensitive to the management of riparian areas.

Habitat: Coldwater and coolwater streams

Status in Bear Brook State Park: Documented in several streams

Management Recommendations:

• Maintain vegetated buffers along the streams and allow for the short- and long-term recruitment of falled trees to the streams.

REPTILES

Focal Species: Eastern ribbon snake

Relevant Criteria: 1, 2, 3

Justification: SGCN species. Suitable habitat exists and can continue to exist with management. Habitat: Being semi-aquatic, Eastern ribbon snakes are found near emergent marshes, wet meadows, scrub-shrub wetlands, beaver impoundments, bogs, river and stream floodplains, and vegetated shorelines of ponds and lakes. They will use muskrat (*Ondatra zibethica*) bank burrows and lodges, ant mounds, mammal tunnels, and rock crevices for hibernation.

Status in Bear Brook State Park: Documented

Management Recommendations:

- Maintain vegetated buffers along the edges of wetlands and vernal pools in accordance with current best management practices for forestry.
- Eastern ribbon snakes utilize similar habitats as Blanding's turtles. See Blanding's turtle Management Recommendations for guidance.





CB

Habitat Recommendations

- Assess and monitor focal species
- Manage for high priority wildlife habitat for the Focal Species – SGCN and T&E species











Habitat Recommendations

- Identify, document, and protect vernal pools and vernal pool complexes
- Protect the integrity and function of wetlands











Habitat Recommendations

 Provide a mix of forest age and size classes across the landscape

	Criteria 1		Crit	Criteria 2	Criteria 3	
	Acres	Percent	Acres	Percent	Acres	Percent
Forested Habitats						
Seedling	0	0%	150	4%	260	7%
Sapling-Pole	0	0%	450	13%	780	20%
Sawtimber	0	0%	750	22%	1,300	33%
Lg Sawtimber	1,702	79%	1,716	50%	1,268	32%
Non-forested Habitats						
Upland Openings	13	1%	100	3%	100	3%
Wetlands	452	21%	260	8%	196	5%
TOTAL	2,167	100%	3,426	100%	3,904	100%







Habitat Recommendations

- Maintain or provide within-stand features for wildlife
- Re-introduce prescribed fire management
- Conserve grasslands and upland openings





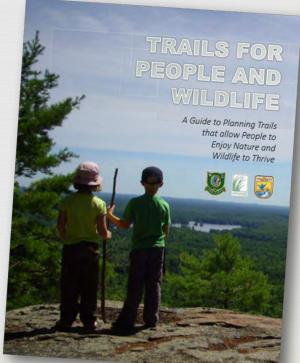




Habitat Recommendations

 Assess the recreational trail systems for impacts to Focal Species and their habitats.









03

Habitat Recommendations

 Provide opportunities for the public to use and enjoy the wildlife resources including hunting, fishing, trapping, wildlife viewing and photography









Habitat Recommendations

- Evaluate and determine if the laws governing hunting in the game refuge should be modified to help meet population objectives of game species and/or social desires.
- Work with partners to develop wildlife focused educational programs.







