

FOREST MANAGEMENT PLAN

Prepared for

***Town of Washington
Forestry Committee***

Located in

Washington, New Hampshire

2014

Prepared by:

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Forest Properties under separate tabs:

Back Mountain Lot 65 Acres.....A

Project Schedule

Goals

Deeds, surveys, relevant abutter information or

Other boundary information

Topographic Map and Aerial Photograph

Soils information and Soils Table for Forestry

NH Natural Heritage Bureau Report

Additional Pertinent Information

The Back Mountain Lot was obtained for a conservation piece but the future value needs to be explored for suitability as a town forest. The primary goal should be timber production with a possibility of recreational trail development to link various trails if practical. This site should be walked to identify boundaries and timber potential and then a plan laid out for future management and stand treatments.

Barrett Pond Lots 191 AcresB

Project Schedule

Goals

Deeds, surveys, relevant abutter information or

Other boundary information

Topographic Map and Aerial Photograph

Soils information and Soils Table for Forestry

NH Natural Heritage Bureau Report

Additional Pertinent Information

Three lots comprise the Barrett Pond Lots as shown on the topographic map. Access to the property is limited due to the non-town maintained Class VI road. An abutter on this portion of the road erected a bridge that will need scrutiny for with heavy log trucks. The boundaries will need to be identified and the lot walked to verify the management approach. There is a knoll located within the property that may serve as a focal point for a recreational trail or lookout. An alternate access may be explored through abutting property as well.

Camp Morgan 134 AcresC

Camp Morgan Additional Lot 23.4 AcresD

Project Schedule

Goals

Deeds, surveys, relevant abutter information or

Other boundary information

Topographic Map and Aerial Photograph

Soils information and Soils Table for Forestry

NH Natural Heritage Bureau Report

Additional Pertinent Information

Camp Morgan consists of two lots; the 134 acre lot that contains the forest and the lodge and the additional 23-acre lot north of Millen Pond Road which holds the septic system for the school and the lodge. There is a natural untouched area that needs to be defined on the forest cover type map. A limited amount of cutting has been done on a portion of the property under the 1999 management plan. A review of the forest should be done to assess the next timber stand treatment.

Farnsworth Hill Lot 135.12 Acres.....E

Project Schedule
Forest Cover Type Map
Goals
Deeds, surveys, relevant abutter information or
Other boundary information
Topographic Map and Aerial Photograph
Soils information and Soils Table for Forestry
NH Natural Heritage Bureau Report
Additional Pertinent Information

Farnsworth Hill Lot is located on Old Marlow Road, an eroding Class VI road. Access is quite limited for hauling logs as the road had sustained a great deal of erosion damage with exposed ledge along the steeper sections. A few cross drains are found in the road but appear to be in good condition. Efforts are underway to explore feasibility of utilizing abutting property for easier access. The Society for the Protection of New Hampshire Forests (SPNHF) now have ownership of abutting property that was heavily logged two years ago. This would make a helpful access since the town roads are in great condition from the class V access point to near the top of Farnsworth Hill. Costs for improving the road for hauling of timber products all the way to the Farnsworth Hill Lot would significantly impact the economic feasibility of logging this lot.

The lot is in need of a light thinning, removing trees at their economic maturity as well as some less desirable stems, and opening the canopy for increased residual stand growth. Stand treatment should be done within the next two years.

Huntley Mountain Lot 106 Acres.....F

Project Schedule
Forest Cover Type Map
Goals
Deeds, surveys, relevant abutter information or
Other boundary information
Topographic Map and Aerial Photograph
Soils information and Soils Table for Forestry
NH Natural Heritage Bureau Report
Additional Pertinent Information

Huntley Mountain Lot is located at the end of Huntley Mountain Road at the Marlow town line. A brief walk of the lot shows the need for a light thinning in many stands. The lot has a height of land which has a nice view of Ashuelot Pond and perhaps some additional recreational uses can be added to the forest management of the property through trail development.

New Road Lot 55 Acres.....G

Project Schedule
Goals
Deeds, surveys, relevant abutter information or
Other boundary information
Topographic Map and Aerial Photograph
Soils information and Soils Table for Forestry
NH Natural Heritage Bureau Report
Additional Pertinent Information

New Road is also known as Twin Bridges Road. The lot was bought by the Town for conservation purposes. A review of the lot is needed to assess timber potential as well as any recreational uses or other.

Old Meadow Lot 18.4 AcresH

Project Schedule
Goals
Tax Map
Additional Pertinent Information

The Old Meadow Lot is being considered for use as a wildlife viewing area and wayside park. This special use will need to be further explored. No timber potential is associated with this lot.

East Washington Lot 1.6 AcresI

Project Schedule
Goals
Topographic Map
Soils information
Additional Pertinent Information

The East Washington Lot was bought to maintain the rural character of the road. No timber potential is associated with this buffer lot.

Valley Road Lot 0.41 AcresJ

Project Schedule
Goals
Topographic Map
Soils information
Additional Pertinent Information

The Valley Road Lot was acquired for potential development as a recreational access to Highland Lake as a boat launch site. In depth analysis for this use is needed as funds become available. No timber potential is associated with this lot.

Nut Hatch Lot 20.39 AcresK

Project Schedule
Goals
Topographic Map
Soils information
NH Natural Heritage Bureau Report
Additional Pertinent Information

An in depth review of the Nut Hatch Lot is required to assess the possibility of timber potential and management. Recreational use can also be explored.

Appendix:

Log Landing and Forest Openings

Glossary of Terms

Sources of Information and Assistance

The purpose and scope of this Forest Management Plan is to assemble all information relevant to the town forest properties under the management of the Washington Forestry Committee (WFC), to review the information and present a project schedule consistent with the goals for each parcel.

Due to the vast extent of the project, the abundance of information available for each parcel, and the evolving goals for each parcel, this document is a “working document” where information will be added and deleted as deemed appropriate by the WFC. Lots may come into purview by the WFC or deleted from WFC management. Thus, each lot is under separate chapter headings with a general overview section to address all lots of current interest.

Many sources of information went into compiling this document and are so noted at the end. Information included is only as accurate as information gleaned from the various sources but any errors or changes will be corrected when validated. Many times information is accurate for the date when it was written but by the virtue of time, becomes inaccurate such as abutting ownership.

Forestry Committee

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Forestry Committee Email

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Washington ,NH 03280

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Meeting Minutes

Members

Name	Title
Tom Taylor	Chair
Steve Hanssen	Member
Tom Burt	Member
Larry Gaskell	Member
Al Krygeris	Member
Pete Martin	Member

Mission Statement

The Forestry Committee is chartered with the over all management of the Washington town forests. Its charter includes the management of timber, firewood and other natural resources through controlled planting, timber stand improvement, thinning, harvesting, reforestation and other multiple use programs consistent with the public interests. We are also responsible for the management of two tracts of conservation property, which are technically not forests, because we have the resources to manage these tracts for the town.

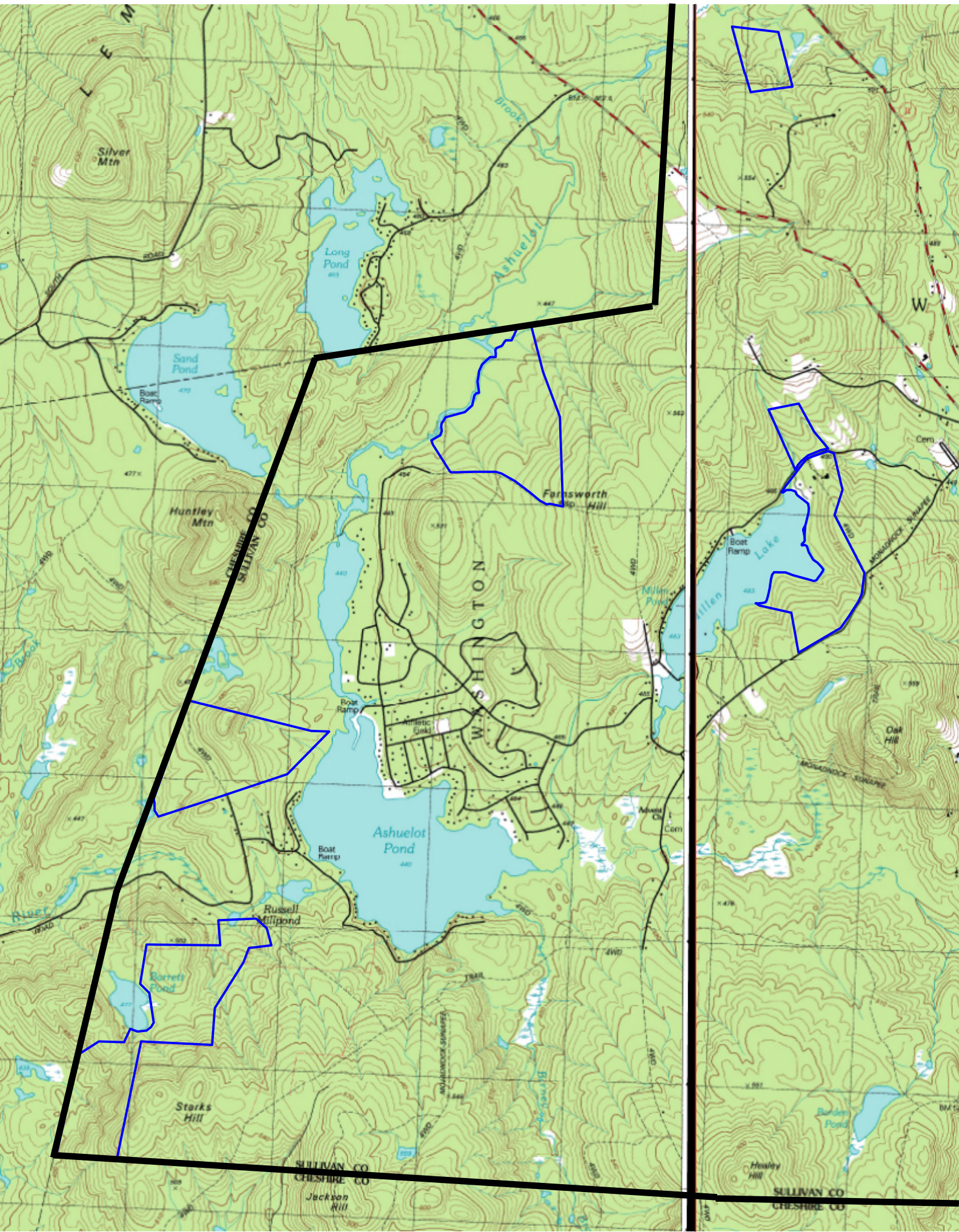
Partial Update to Operable Acres Table, Page 8

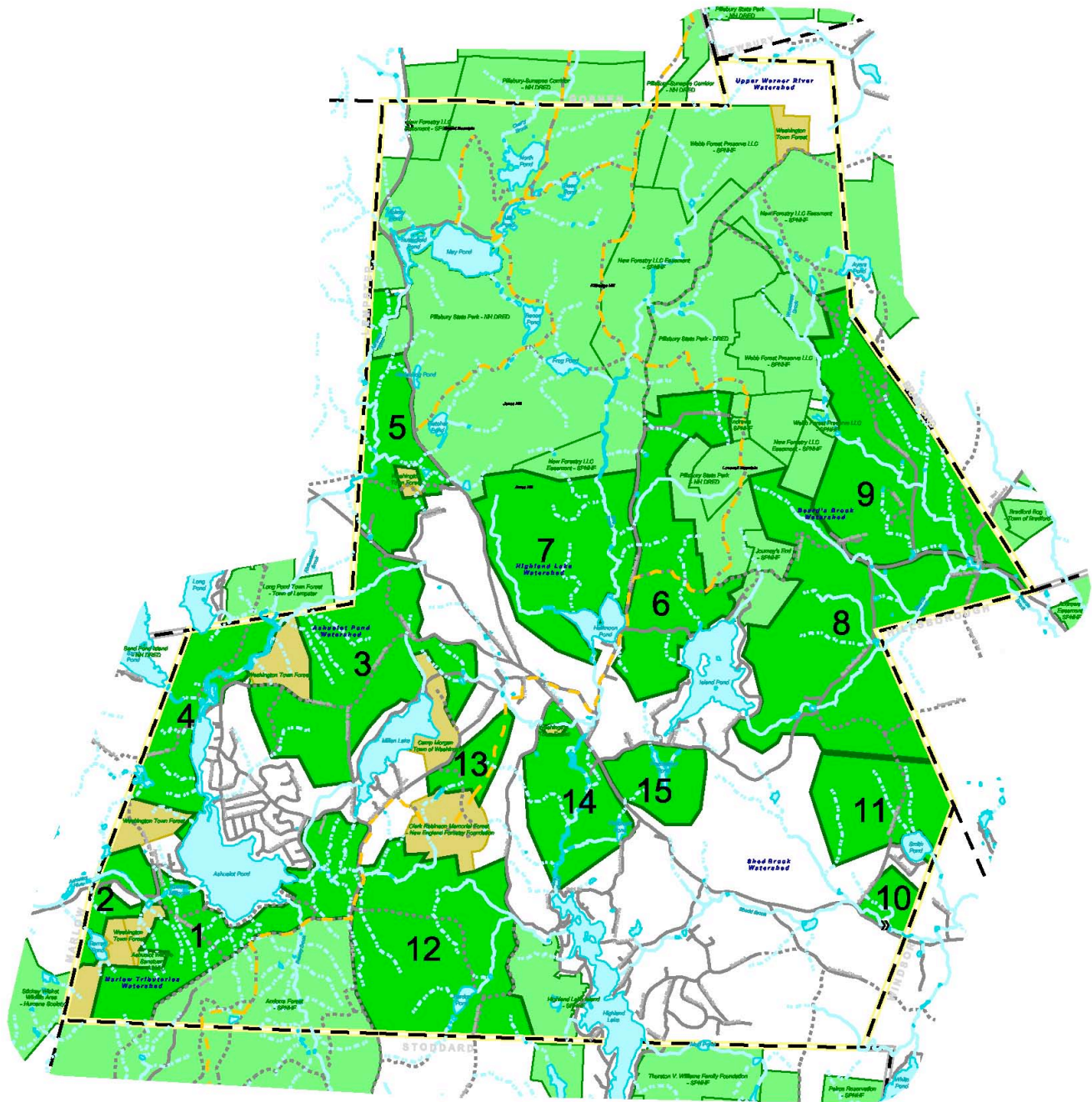
To

WTF-Management Plan 12/6/99

Prepared 1/21/14 by WFC

<u>Property/Map</u>	<u>Total deeded acres</u>	<u>Notes</u>
Back Mountain: 2/3	65	No update
Barrett Pond: 18/6	191	Bounded by Marlow town line to the west, Washington/Marlow Road to the north
Camp Morgan: 11/67	134	Approx. 34 acres: Beach & School; 100 acres in forest (45-natural education project; 55-managed: timbered in 2004). See also Map 15.
CM-Additional parcel north of Millen Pond Road: 11/41	23	0.25 acres for Camp Morgan septic field. Last timbered approximately 1993.
Farnsworth Hill: 10/5	135.12	On Old Marlow Road
Huntley Mountain: 14/400	106	No update
New Road: 7/10	55	Also known as Twin Bridges Road
Old Meadow: 12/180	18.4	@ 248 South Main Street
East Washington: 16/83	1.6	Two triangular parcels on east side of South Main Street, at the East Washington Road juncture
Valley Road: 25/89	0.41	Highland Lake access
Nuthatch: 20/121	20.39	Five contiguous parcels, with Highland Lake access

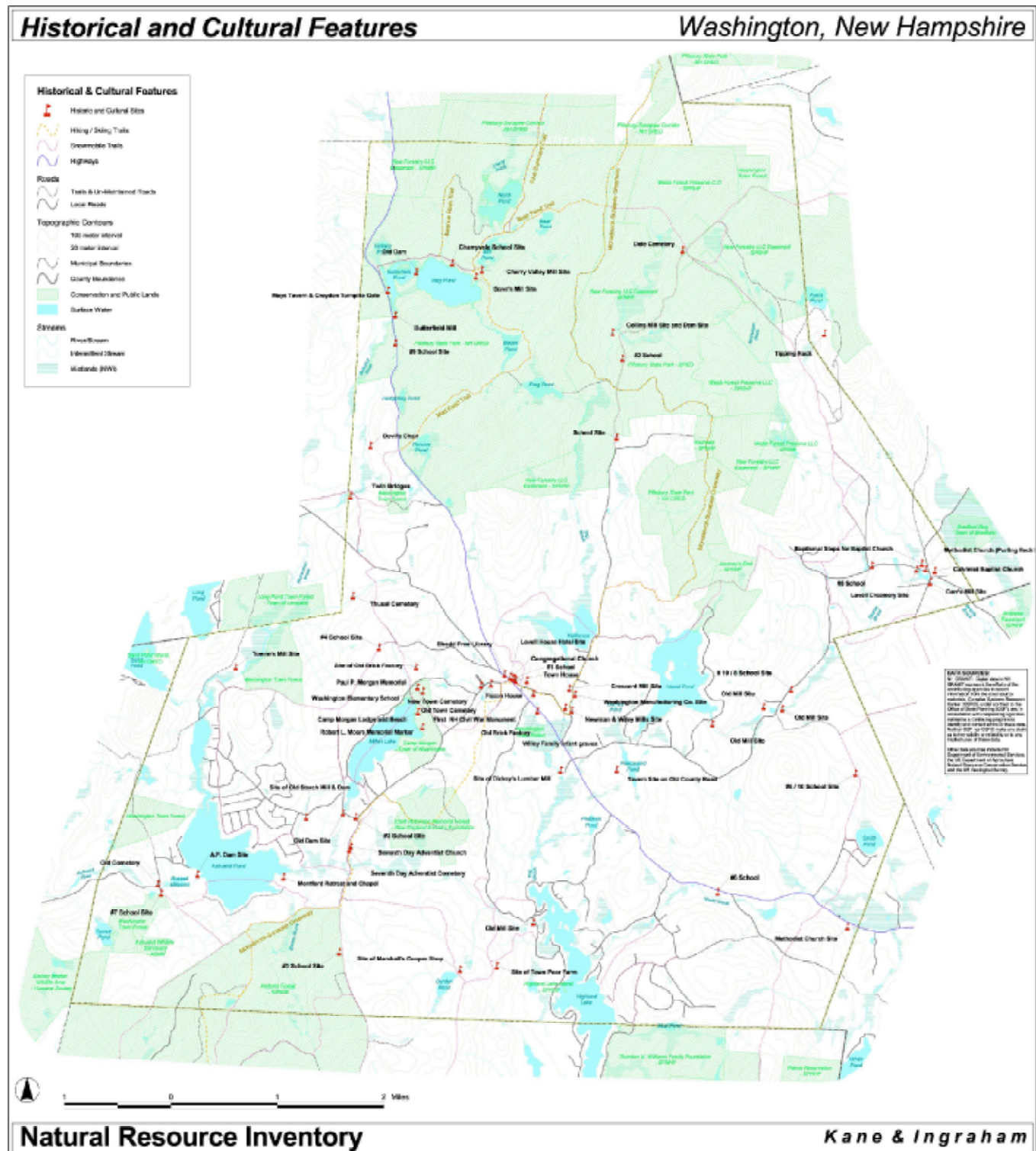




Conservation Priority Areas Key

1. Starks Hill/Ashuelot Pond
2. Barrett Pond
3. Farnsworth Hill
4. Huntley Mountain
5. Codman Hill
6. Island Pond
7. Ames Hill/Halfmoon Pond
8. Beards Brook
9. Woodward Brook
10. Shedd Brook
11. Smith Pond
12. Barden Pond
13. Camp Morgan/Robinson Forest
14. Bog Brook/Highland Lake
15. Freezeland Pond

Map 5. Historical and Cultural Features



FOREST SOILS AND BIODIVERSITY

Washington, New Hampshire

Legend

- Municipal Boundaries
- County Boundaries
- Highways
- Roads
- Trails
- Local Roads
- Surface Water
- Streams
- River/Stream
- Intermittent Stream
- Conservation and Public Lands
- Wetlands (NW1)
- Marsh
- Open Water
- Shrub
- Swamp
- Important Forest Soils
- IA - Optimal for Northern Hardwoods
- IB - Optimal for Beech / Hardwood
- IC - Optimal for Spruce / Hemlock
- IIA - Other Hardwood Production
- IIB - Other Softwood Production
- NC - Not classified

Category	NW1 Map Code	Wetland Type
Marsh	PEM	Marsh
Swamp	PEM1	Swamp: Hardwood
Swamp	PEM2	Swamp: Softwood
Swamp	PEM3	Swamp: Mixed
Shrub	PEM4	Shrub: Deciduous
Shrub	PEM5	Shrub: Mixed
Shrub	PEM6	Shrub: Evergreen
Shrub	PEM7	Shrub: Mixed
Shrub	PEM8	Shrub: Deciduous
Shrub	PEM9	Shrub: Evergreen
Shrub	PEM10	Shrub: Mixed
Open Water	R2	Riverine

IMPORTANT FOREST SOILS

- IA - Optimal for Northern Hardwood Production**
These soils are fertile, deep, and well-drained soils favoring shade tolerant hardwoods such as sugar maple and beech. Other species found on successional stands may include red maple, white birch, yellow birch, aspen, white ash, and northern red oak. Sometimes in combination with red and white spruce, balsam fir, hemlock, and occasionally white pine.
- IB - Optimal for Beech / Hardwood Production**
These soils are sandy or loamy, well-drained, and slightly less fertile than those in group IA. Successional stands favor a diverse of tolerant hardwoods, predominantly beech. Successional stands are commonly composed of a variety of hardwood species such as red maple, aspen, paper birch, yellow birch, white ash, and northern red oak. Sometimes in combination with red spruce, balsam fir, and hemlock.
- IC - Optimal for Spruce / Hemlock Production**
The soils in this group are coarse-textured outwash sands and gravels. Soils are very well-drained, favoring softwood growth. Successional stands are forest stands of shade tolerant softwoods, i.e., red spruce and hemlock. Balsam fir is a persistent component in many stands, but is shorter lived than red spruce and hemlock. These soils are ideal for white pine, but may also see slight competition from red maple, aspen, and paper birch in mid-successional stands.
- IIA - Other Hardwood Production**
This diverse group includes many of the same soils as in groups IA and IB. While not necessarily less productive than those soils, these soils are separated because of physical limitations which make forest management more difficult and costly, i.e., steep slopes, bedrock outcrops, eroded features, surface boulders, and extreme rockiness.
- IIB - Other Softwood Production**
Productivity of these poorly drained soils is generally less than soils in other groups. Successional stands are forest stands of shade tolerant softwoods, i.e., spruce and hemlock, as well as some hardwoods. Some of poorly drained soils such as red maple, red maple conifer stands or slow-growing hemlock sawtimber are common. Due to poor soil drainage, forest management is somewhat limited. Severe windthrow hazard limits partial cutting, frost action threatens survival of planted seedlings, and harvesting is generally restricted to periods when the ground is frozen.
- NC - NOT CLASSIFIED**
Several mapping units in the survey are either so variable or have such a limited potential for commercial production of forest products they have not been classified. Often an on-site visit would be required to evaluate the situation.

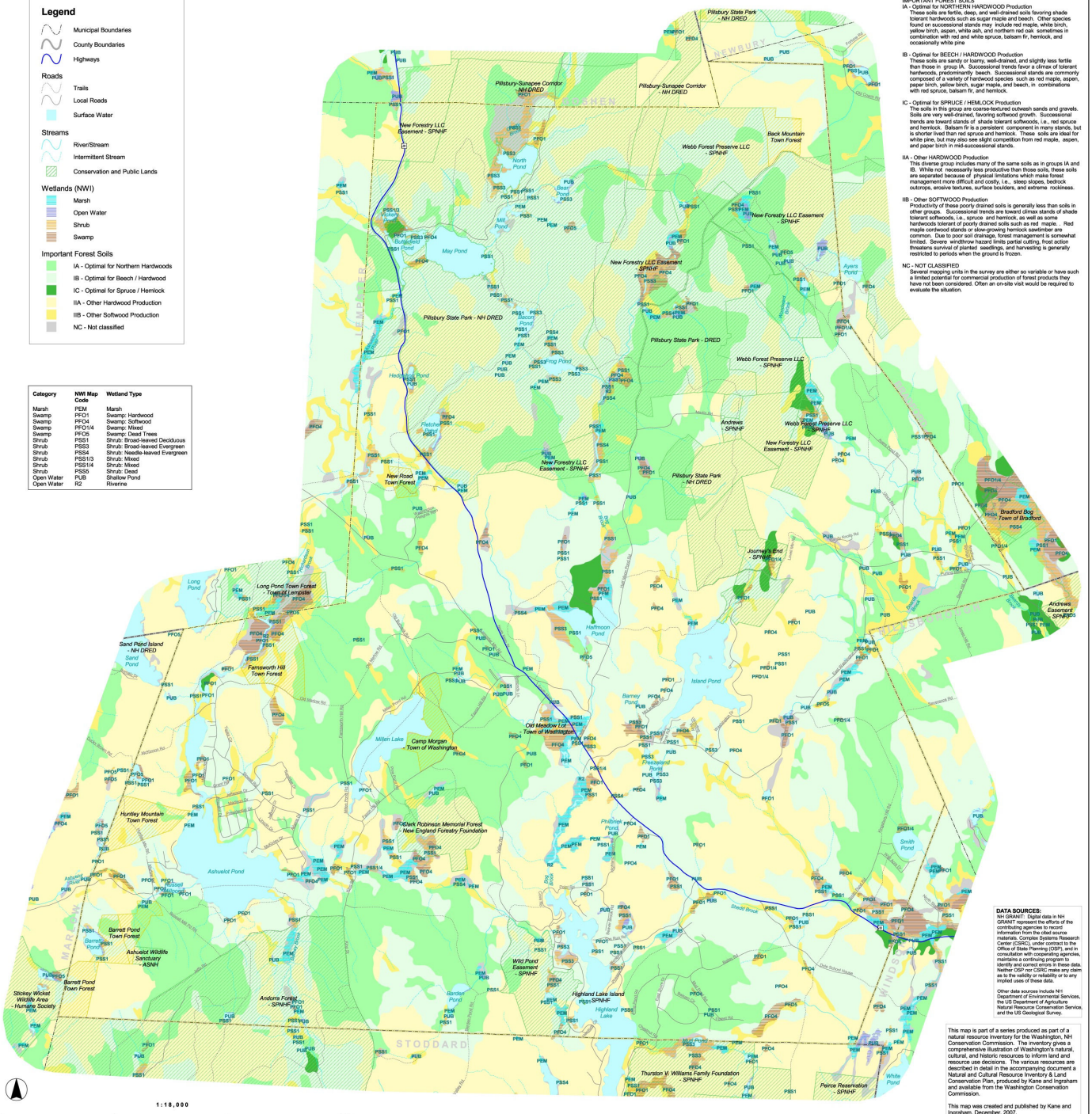
DATA SOURCES:

NH DNR - Digital data in NW1 format from the efforts of the Washington, NH Department of Environmental Services, the US Department of Agriculture, and the US Geological Survey.

Other data sources include NW1 Department of Environmental Services, the US Department of Agriculture, and the US Geological Survey.

This map is part of a series produced as part of a natural resource inventory for the Washington, NH Department of Environmental Services. The inventory gives a comprehensive illustration of Washington's natural, cultural, and historic resources to inform land and resource use decisions. The various resources are described in detail in the accompanying document a Natural and Cultural Resource Inventory & Land Conservation Plan, produced by Kane and Ingraham and available from the Washington Conservation Commission.

This map was created and published by Kane and Ingraham, December, 2007.

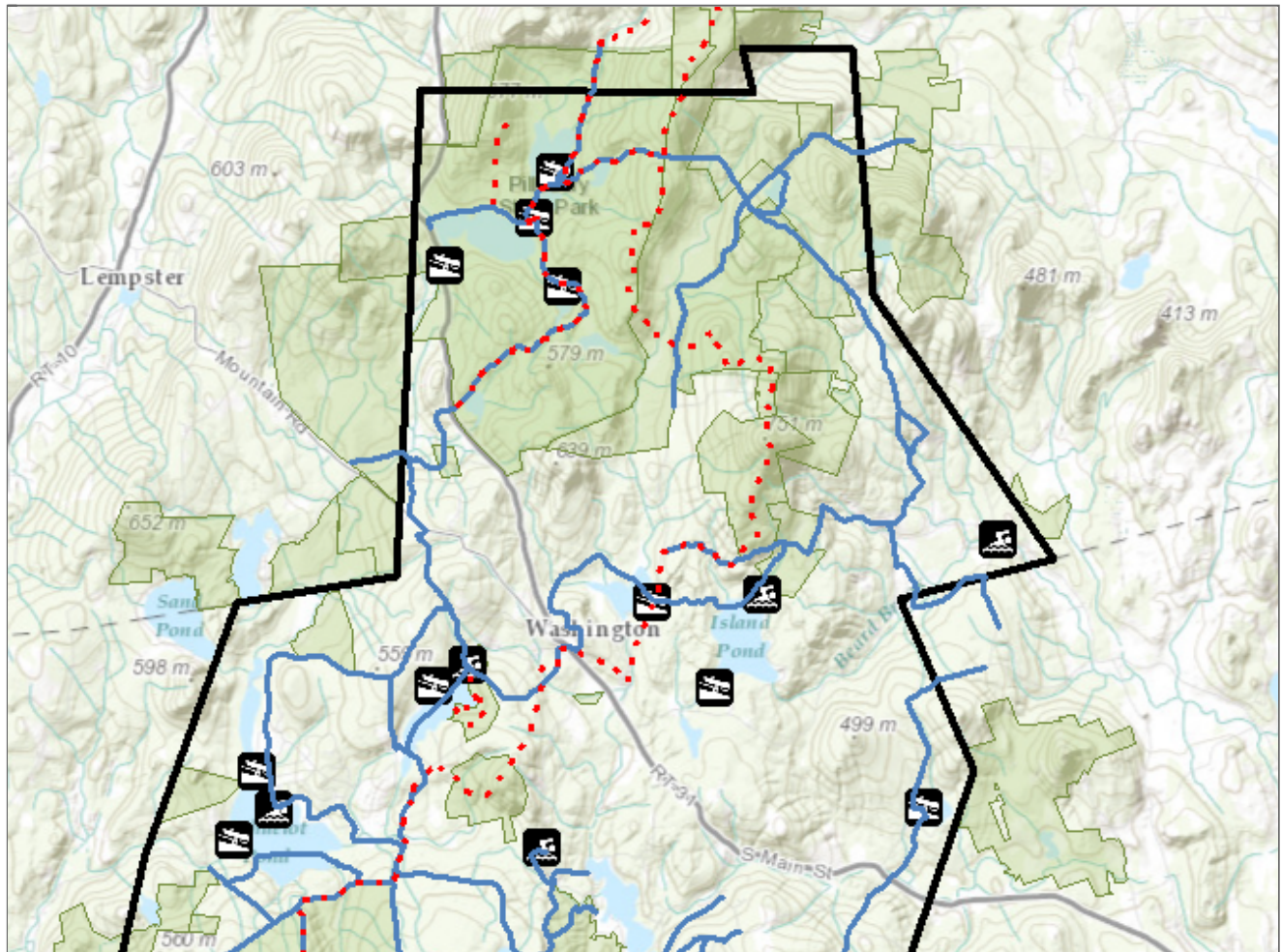


Natural Resource Inventory

Kane & Ingraham

Washington, NH Outdoor Recreation

Map showing outdoor recreation opportunities in Washington.



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PROJECT SCHEDULE



Year,	Season	Stand	Date Completed	Project
2014	any	all	_____ <input type="checkbox"/>	Develop and organize an updated written forest management plan by lot
BACK MOUNTAIN LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess growth, determine cutting practice needed, identify landing site and establish time frame for cutting.
BARRETT POND LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess growth, determine cutting practice needed, identify landing site and establish time frame for cutting.
CAMP MORGAN LOTS:				
2015-16,	any	all	_____ <input type="checkbox"/>	Check natural untouched area and define on map
2015-16,	any	all	_____ <input type="checkbox"/>	Locate boundary lines and freshen if needed
2016-18	any	1-3	_____ <input type="checkbox"/>	Plan and layout silvicultural thinning.
2016-18	spring or fall	2	_____ <input type="checkbox"/>	Lime, fertilize and seed landing/hot yard for dual use as wildlife food plot and future log landing
2023-28	any	all	_____ <input type="checkbox"/>	Review stand response, growth and condition in 7-10 years.
FARNSWORTH HILL LOT:				
2014-16	dry, frozen	all	_____ <input type="checkbox"/>	Establish suitable access and log landing
2014-16,	any	all	_____ <input type="checkbox"/>	Locate boundary lines and freshen if needed
2014-16	any	1-3	_____ <input type="checkbox"/>	Plan and layout silvicultural thinning.
2015-16	spring or fall	2	_____ <input type="checkbox"/>	Lime, fertilize and seed landing/hot yard for dual use as wildlife food plot and future log landing.

Washington Town Forests 2014

Year,	Season	Stand	Date Completed	Project
FARNSWORTH HILL LOT (Continued):				
2015-16	any	all	_____ <input type="checkbox"/>	Identify sections of skid trails as new loop trail. Clear, mark and map new trail.
2021-24	any	all	_____ <input type="checkbox"/>	Review stand response, growth and condition in 7-10 years.
HUNTLEY MOUNTAIN LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess growth, determine cutting practice needed, identify landing site and establish time frame for cutting.
NEW ROAD (TWIN BRIDGES ROAD) LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess growth, determine cutting practice needed, identify landing site and establish time frame for cutting.
OLD MEADOW LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess usefulness as wildlife viewing area and wayside park.
EAST WASHINGTON LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, retain as a buffer.
VALLEY ROAD LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, retain as a possible access to Highland Lake for a boat launch site.
NUTHATCH LOT:				
2015-16	any	all	_____ <input type="checkbox"/>	Locate boundaries, assess growth, determine cutting practice needed, if any and assess use as lake access.