9. APPENDICES

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Current Use Category Definitions:

- 1. <u>Farmland</u> means any cleared land devoted to or capable of agricultural or horticultural use as determined and classified by criteria developed by the NH Commissioner of Agriculture, Markets, and Food and adopted by the Current Use Board.
- 2. <u>Forest land</u> means any land growing trees as determined and classified by criteria developed by the state forester and adopted by the board. For the purposes of this paragraph, the board shall recognize the cost of responsible land stewardship in the determination of assessment ranges.
- 3. <u>Forest land with documented stewardship</u> has a lower assessment, to reflect the cost of active stewardship of the land; documentation of a Certified Tree Farm, a Forest Stewardship plan from a licensed forester, or a summary of a Forest Stewardship plan developed privately are sufficient to enroll a parcel in current use as forest land with documented stewardship.
- 4. <u>Unproductive Land</u> means land, including wetlands, which by its nature is incapable of producing agricultural or forest products due to poor soil or site characteristics, or the location of which renders in inaccessible or impractical to harvest agricultural or forest products, as determined and classified by criteria developed by the board. The board shall develop only one category for all unproductive land, setting its current use value equal to that of the lowest current use value established by the board for any other category. 5. <u>Wetland</u> means those areas of farm, forest and unproductive land that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support and that under normal circumstances.

National Land Cover Database Class Legend Description

Class\ Value Cla Water	ssification Description
	11 Open Water - areas of open water, g
	vegetation or soil.
	12 Perennial Ice/Snow - areas characte
	snow, generally greater than 25% of
Developed	show, generally greater than 25% of
Бечегореа	21Developed, Open Space- areas with
	but mostly vegetation in the form o
	for less than 20% of total cover. The
	single-family housing units, parks, g
	developed settings for recreation, e
	22 Developed, Low Intensity - areas with
	vegetation. Impervious surfaces acco
	cover. These areas most commonly
	23Developed, Medium Intensity -are
	and vegetation. Impervious surface
	These areas most commonly include
	24 Developed High Intensity -highly dev
	in high numbers. Examples include
	commercial/industrial. Impervious s
	total cover.
Barren	
	31Barren Land (Rock/Sand/Clay) - are
	slides, volcanic material, glacial debi
	other accumulations of earthen mat
	than 15% of total cover.

Forest

- 41**Deciduous Forest** areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.
- 42Evergreen Forest- areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.
- 43**Mixed Forest** areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.

Shrubland

51**Dwarf Scrub**- Alaska only areas dominated by shrubs less than 20 centimeters tall with shrub canopy typically greater than 20% of total vegetation. This type is often co-associated with grasses, sedges, herbs, and non-vascular vegetation.

52**Shrub/Scrub**- areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions. **Herbaceous**

71**Grassland/Herbaceous**- areas dominated by gramanoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to

intensive management such as tilling, but can be utilized for grazing.

- 72**Sedge/Herbaceous** Alaska only areas dominated by sedges and forbs, generally greater than 80% of total vegetation. This type can occur with significant other grasses or other grass like plants, and includes sedge tundra, and sedge tussock tundra.
- 73**Lichens** Alaska only areas dominated by fruticose or foliose lichens generally greater than 80% of total vegetation.
- 74**Moss** Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.

Planted/Cultivated

81Pasture/Hay-areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.

82Cultivated Crops -areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of

Wetlands

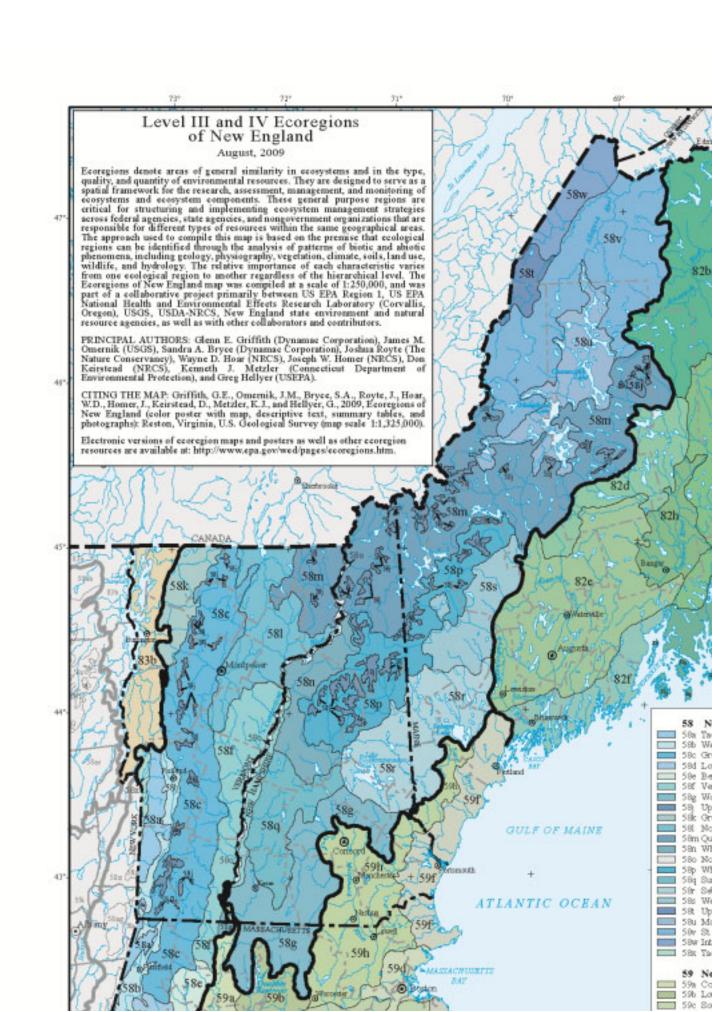
90**Woody Wetlands**- areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.

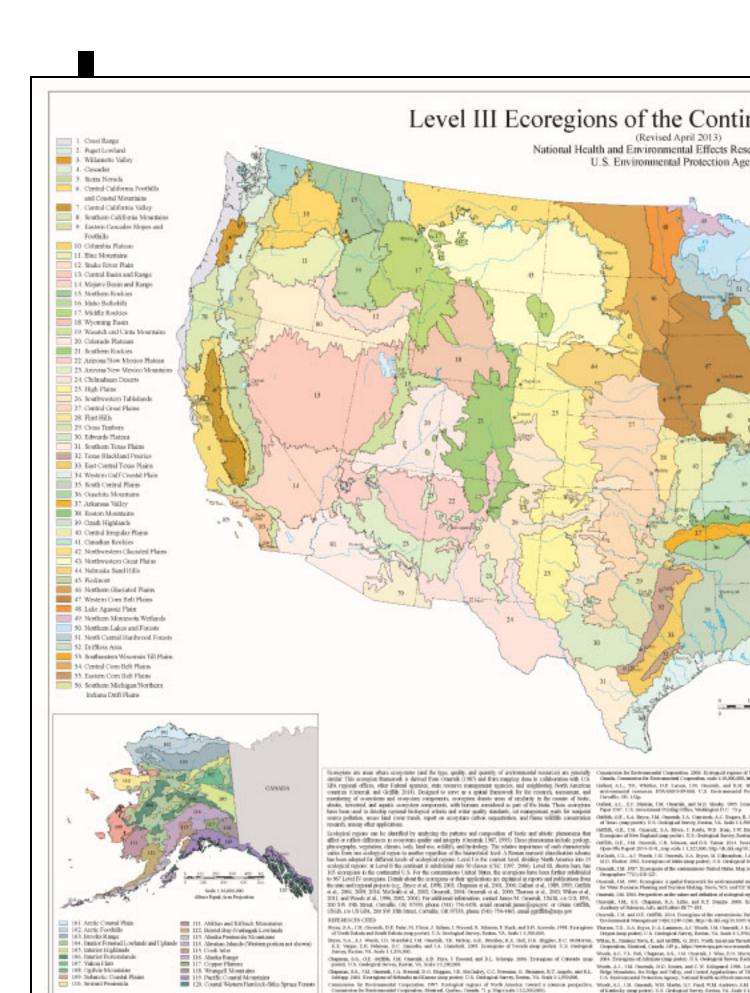
total vegetation. This class also includes all land being actively tilled.

95**Emergent Herbaceous Wetlands**- Areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is

periodically saturated with or covered with water.

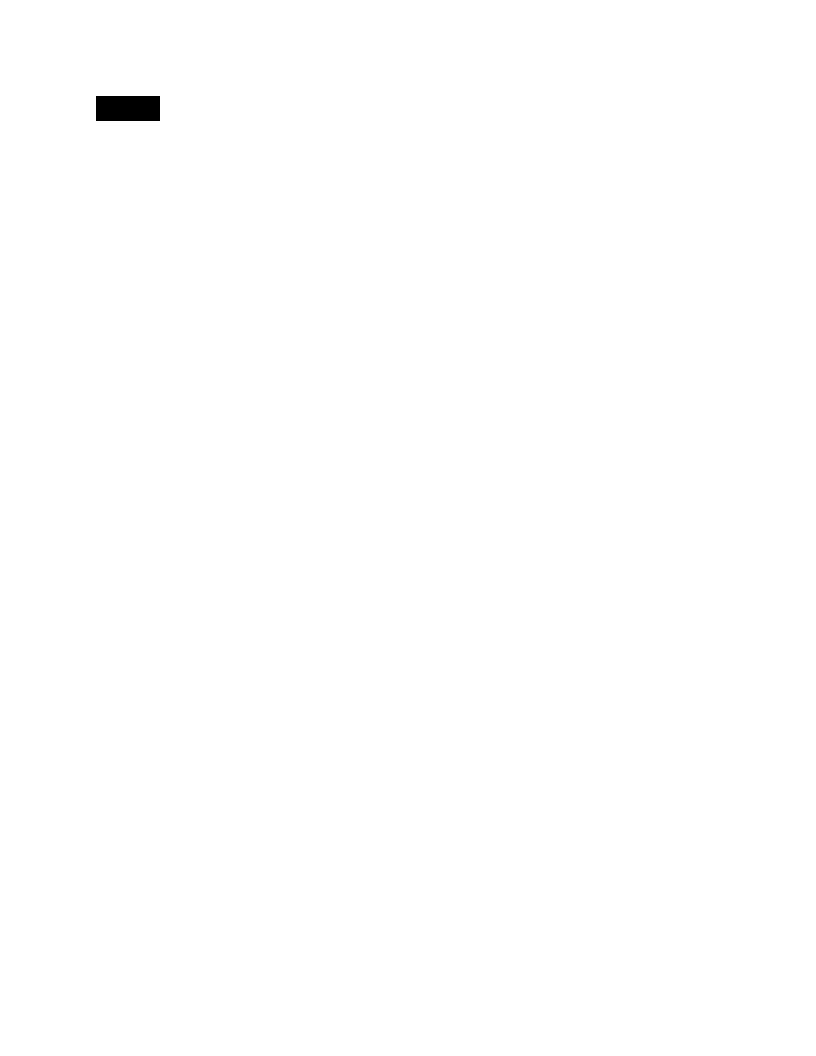
- 1. Level III and IV for New England
- 2. Level III for the Continental United States
- 3. Level I and II for North America





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9.03 Appendix C : Habitat Types & Associated Species

This Appendix contains the habitat summary brochures for the following:

- 1. Hemlock-Hardwood-Pine Forest
- 2. Northern Hardwood-Conifer Forests
- 3. Grasslands
- 4. Shorelines
- 5. Headwater Streams
- 6. Marsh and Shrub Wetlands
- 7. Natural Community: Montane subalpine circumneutral cliff 8.

Natural Community: Northern hardwood - conifer forest system

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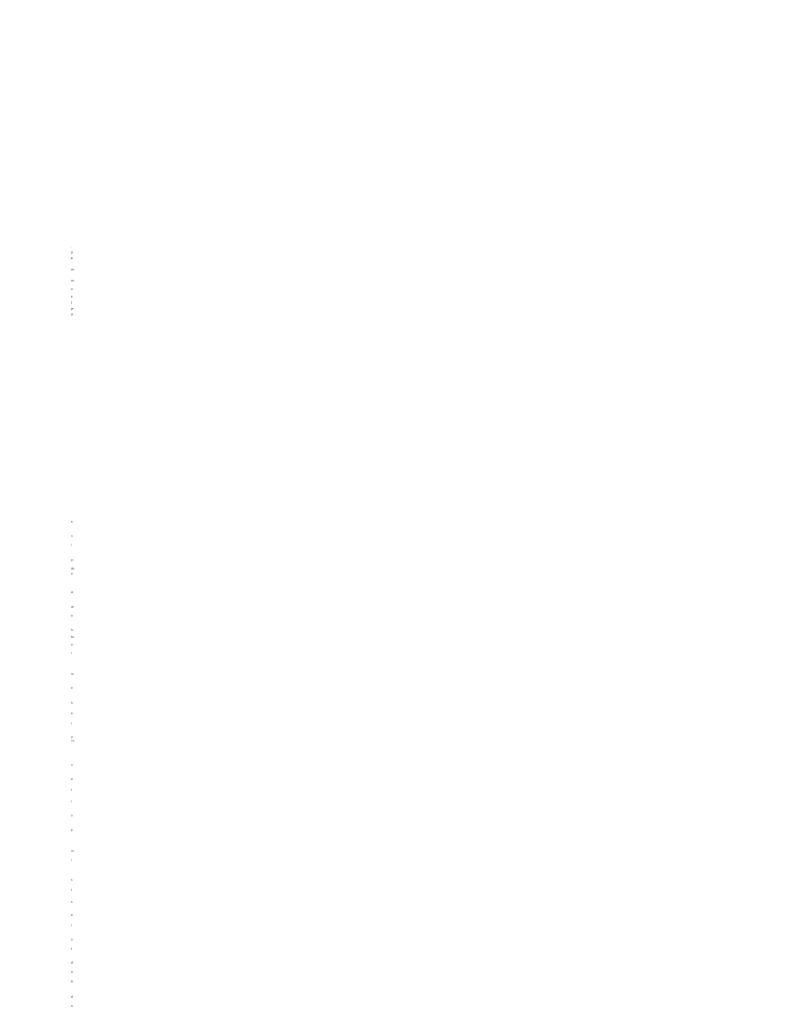
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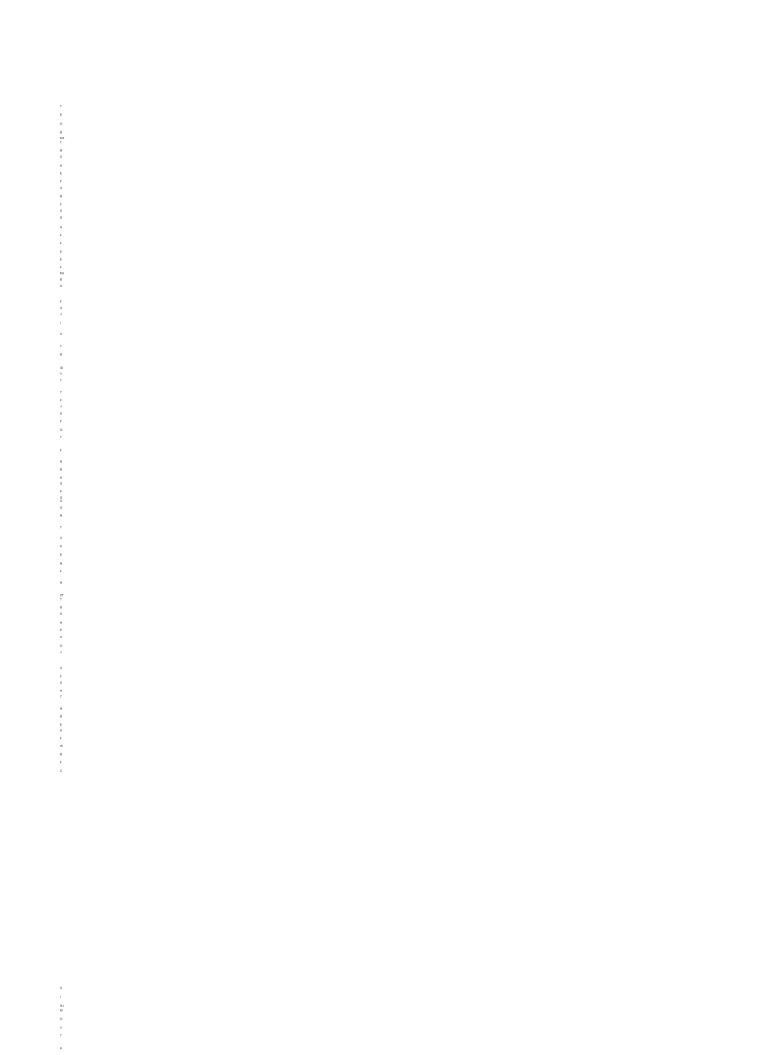
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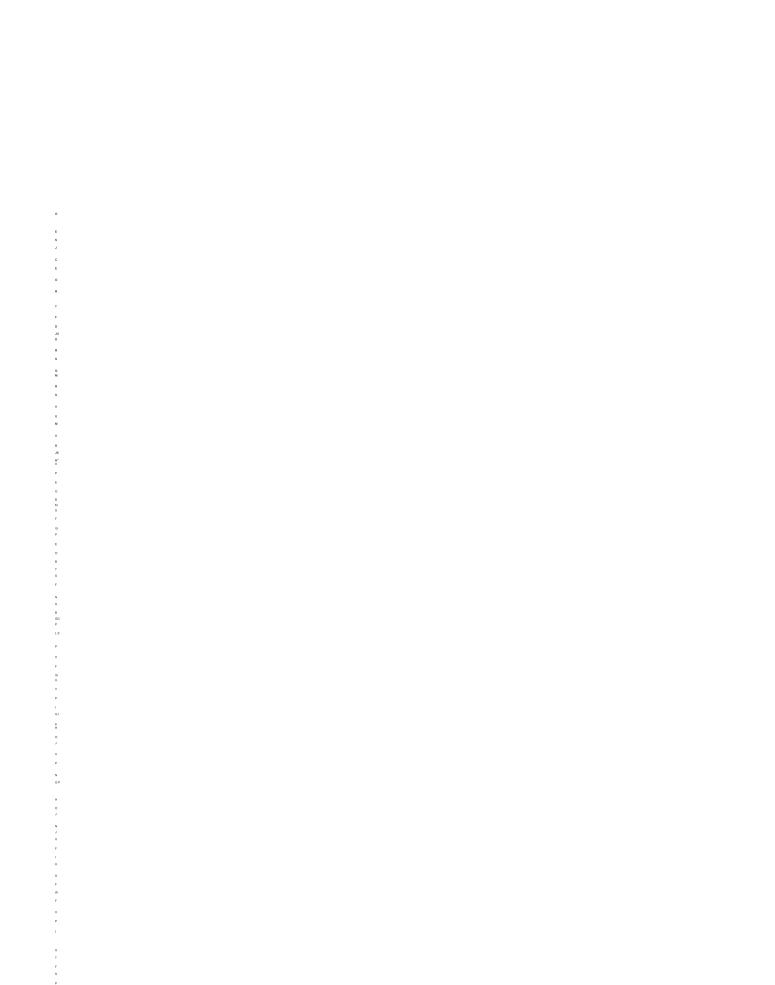
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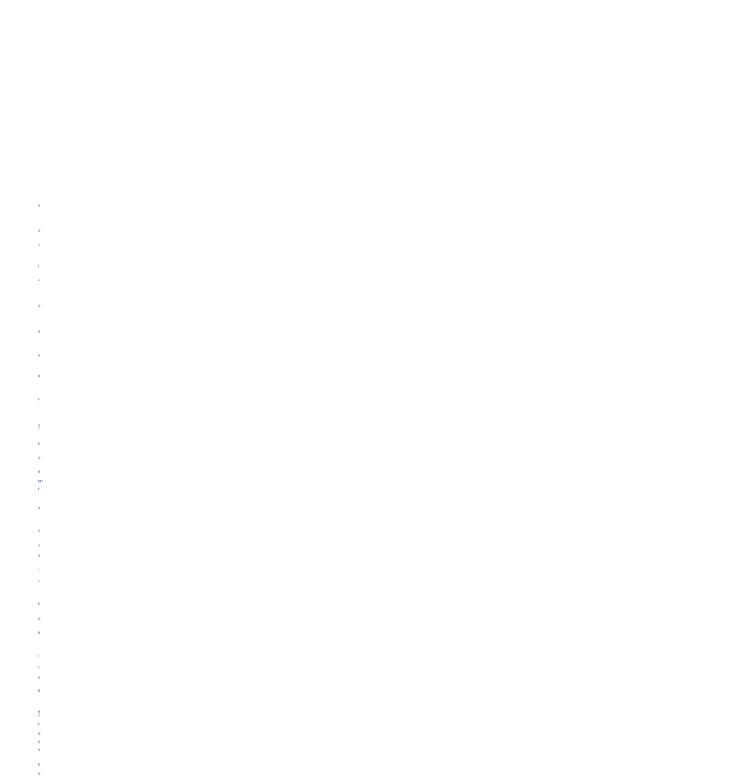
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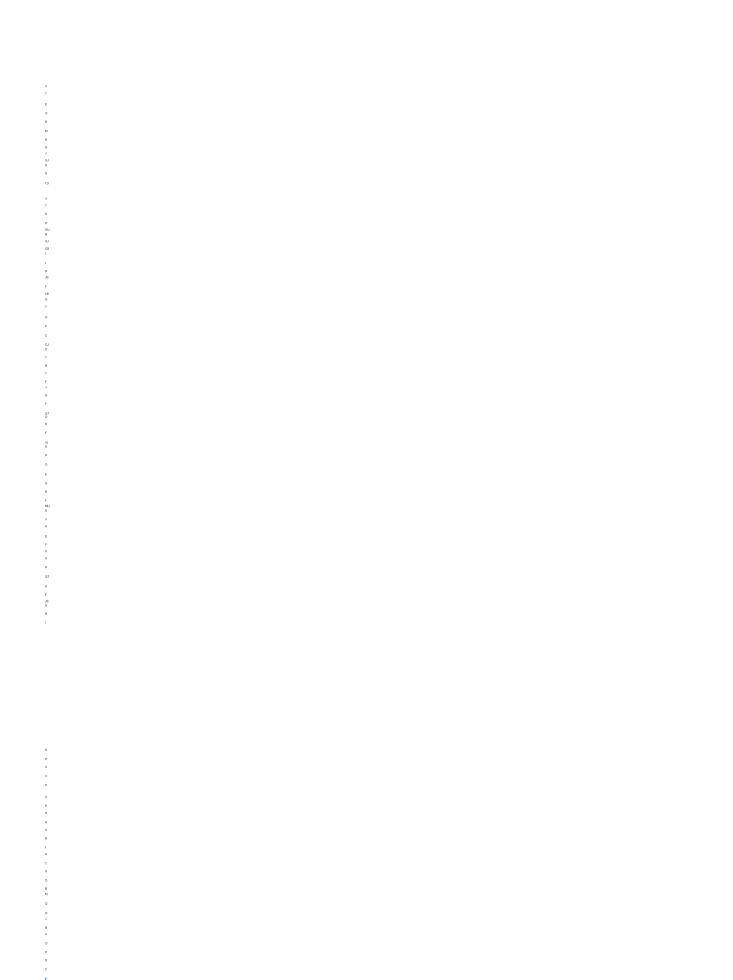


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ROCKY RIDGES, CLIFFS, AND TALUS SLOPES • Montane - subalpine cliff system Landscape settings: steep outcrops on mountain side slopes

Soils: dry to wet, acidic to circumneutral, turfy mineral to organic substrates in cracks and on benches

Spatial pattern: steep outcrops (in excess of 65 degrees slope) to over-hanging (<1–100+ acres);

irregular

Physiognomy: sparsely vegetated to partially wooded

Distribution: mostly above 2,200 ft. elevation in the White Mountains and northward, and scattered in adjacent subsections to the south

Description: Montane - subalpine cliffs in NH are generally found above 2,200 ft. in elevation and are thus concentrated in the White Mountain region and sparingly at higher elevations elsewhere in the state. The most common natural community in this system is *montane - subalpine acidic cliff*, which dominates the entire area of many cliffs. *Montane - subalpine circumneutral cliff* communities are relatively uncommon within this system, and when they do occur they are often restricted to only certain zones of a cliff, with the remainder of the cliff corresponding to *montane - subalpine acidic cliff*.

Circumneutral conditions on cliffs can arise from two possible sources: 1) where the matrix bedrock is intermediate, mafic, calc-silicate, or carbonate-bearing; and/or 2) where groundwater passes through fractured bedrock and transports base-cations to the cliff face (particularly under overhangs) (Bailey 2001, Sperduto 2001, Sperduto 2002). These conditions typically occur as restricted zones on otherwise acidic cliffs. Only a few cliffs in New Hampshire have close to uniformly circumneutral conditions across the entire cliff face.

Seeps are relatively common in montane - subalpine cliff systems. Typically they occupy relatively small areas but occasionally cover an acre or more in extent. The plants that occur on cliff seeps are very distinct from those that typify more dry or mesic cliff conditions; the difference is equivalent to that seen when going from a fen to an upland forest. They range from acidic to circumneutral conditions and are indicated by wetland species.

Diagnostic natural communities:

- Montane subalpine acidic cliff (S4)
- Montane subalpine circumneutral cliff (S2S3)

Peripheral or occasional natural communities:

• Red spruce - heath - cinquefoil rocky ridge (S3S4) - on less steep, slab portions of cliff system

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Associated natural community systems: Cliff systems are often but not always associated with talus systems; massive cliffs with little fracturing tend not to have much talus debris at their bases, whereas those with considerable fracturing do have talus slopes. Montane - subalpine cliffs are also frequently associated with montane rocky ridge and subalpine heath - krummholz/rocky bald systems.

Characteristic species:

Montane - subalpine acidic cliff: Paronychia argyrocoma (silverling)*

Oclemena acuminata (sharp-toothed nodding

Picea rubens (red spruce) aster) Betula alleghaniensis (yellow birch)

Abies balsamea (balsam fir)

Sibbaldiopsis tridentata (three-toothed On both montane and temperate acidic cliffs:

cinquefoil)

Juncus trifidus (highland rush)

Deschampsia flexuosa (wavy hair grass)

Polypodium virginianum (rock polypody) Cystopteris tenuis (Mackay's fragile fern) Cystopteris fragilis (fragile fern)

Woodsia ilvensis (rusty cliff fern) Sambucus racemosa (red elderberry)

On seepy portions:

Montane - subalpine circumneutral cliff:

Campanula rotundifolia (Scotch bellflower)

Dryopteris fragrans (fragrant wood fern)*

Dasiphora floribunda (shrubby-cinquefoil)

Vascular plants

Bryophytes

Tortella tortuosa (moss)*

Acid seepage indicators:

Drosera rotundifolia (round-leaved sundew)

Houstonia caerulea (little bluet)

Viola spp. (violets)

Circaea alpina (small enchanter's-nightshade)

Thuja occidentalis (northern white cedar) Woodsia ilvensis (rusty cliff fern) Subacid to circumneutral seepage indicators:

Vascular plants

Trichophorum alpinum (alpine clubsedge) Pinguicula vulgaris (violet butterwort)* Woodsia glabella (smooth

Gymnostomum aeruginosum (moss)* Distichium capillaceum (moss)* cliff fern)*

Myurella siberica (liverwort)* *Amphidium mougeotii* (moss)* **Bryophytes**

Preissia quadrata (liverwort)* On both montane and temperate circumneutral *Mnium thomsonii* (moss)* cliffs:

Cryptomnium hymenophylloides (moss)* Conocephalum conicum (liverwort)

Asplenium trichomanes (maidenhair spleenwort)

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Northern hardwood - conifer forest system

Landscape settings: mountains, high hills, and mountain valleys

Soils: loose and firm glacial till, glacio-fluvial soils (e.g., river and kame terraces, outwash), stabilized

Spatial pattern: matrix (<10–1,000+ acres); irregular and linear zonation of component communities

Physiognomy: forest

Distribution: 1,400–2,500 ft. elevation in northern NH and along the western highlands; occasionally found down to about 1,000 ft. elevation in cool, mesic settings

Description: New Hampshire's northern hardwood forests are characterized by Fagus grandifolia (American beech), Acer saccharum (sugar maple), and Betula alleghaniensis (yellow birch). These northern hardwood forests are positioned latitudinally and elevationally between the high-elevation spruce - fir forest and hemlock - hardwood - pine forest systems. Northern hardwood forests are generally found between 1,400–2,500 ft. in elevation in northern NH and along the western highlands (Sunapee Uplands subsection), although the tolerance range of individual species varies. Some

occurrences can be found down to about 1,000 ft. elevation.

The upslope ecotone to spruce - fir forest is marked by the appearance of *Picea rubens* (red spruce), *Abies balsamea* (balsam fir), the increased importance of yellow birch, and the disappearance of sugar maple and beech; the downslope ecotone to the hemlock - hardwood - pine forest system is marked by the appearance of more *Tsuga canadensis* (hemlock) along with *Quercus rubra* (red oak), *Pinus strobus* (white pine), and occasionally *Ostrya virginiana* (ironwood) and decreased dominance of yellow birch and sugar maple.

The matrix forest community type of this system, sugar maple - beech - yellow birch forest, mixes with patches of several other communities. Hemlock - oak - northern hardwood forests occur at lower elevations (800–2,000 ft.) and are differentiated from the matrix community by a substantial presence of hemlock. They occur in valley bottoms and lower mountain slopes of the White Mountains, and middle to higher elevations of hills and low mountains of the Sunapee Uplands subsection of western New Hampshire. *Hemlock - spruce - northern hardwood forests* are also found at elevations below 2,000 ft. This is a conifer to mixed community type with considerable hemlock and spruce mixing with variable amounts of birches, other northern hardwoods, balsam fir, and sometimes white pine. It occurs primarily on river terraces, stream ravines, and compact till settings in the mountains where it transitions to more pure northern hardwoods on richer soils (e.g., fine tills). Semi-rich mesic sugar maple forests are a common but relatively small part of the mosaic formed by this system where there is slightly enriched till or fine river terrace sediments. Both beech forest and hemlock forest types are occasional in this and the hemlock- hardwood - pine forest systems, but generally form relatively small patches. Northern hardwood - spruce - fir forests mark the transition to the high-elevation spruce - fir forest system, but in most cases are considered part of the northern hardwood - conifer forest system because the hardwood trees that disappear in *high-elevation spruce - fir forest* (due to climate and/or soil conditions) are still present. Some spruce - fir or mixed forests that have been cut or heavily disturbed may currently support a hardwood or mixed forest canopy, and may or may not succeed to greater spruce - fir prominence.

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Diagnostic natural communities:

- Northern hardwood spruce fir forest (S4)
- Sugar maple beech yellow birch forest (S5) matrix forest type
- Hemlock spruce northern hardwood forest (S3S4)
- Hemlock oak northern hardwood forest (S4)
- Semi-rich mesic sugar maple forest (S3S4)

Peripheral or occasional natural communities:

- Beech forest (S4)
- Hemlock forest (S4)
- Northern white cedar forest/woodland (S1)

Associated natural community systems: Northern hardwood - conifer forest systems transition upslope to high-elevation spruce - fir forest systems. Downslope they transition to either 1) hemlock - hardwood - pine forest systems, especially in low elevation valleys of White Mountains and further south; or 2) lowland spruce - fir forest/swamp systems in the North Country and some valley bottoms in the White Mountains.

Characteristic species:

forest system:

Characteristic species of the northern hardwood - conifer forest system:

Trees - hardwoods

Acer saccharum (sugar maple)

Fagus grandifolia (American beech)

Betula alleghaniensis (yellow birch)

Acer rubrum (red maple)

Betula papyrifera (paper birch)

Acer pensylvanicum (striped maple)

Prunus pensylvanica (pin cherry)

Fraxinus americana (white ash)

Trees - conifers

Tsuga canadensis (hemlock)

Abies balsamea (balsam fir)

Picea rubens (red spruce)

Pinus strobus (white pine) – infreq. at low elev. Understory species absent or less frequent in communities of hemlock - hardwood - pine

Species common to communities of both systems:

Dryopteris intermedia (evergreen wood fern) Aralia nudicaulis (wild sarsaparilla)

Lysimachia borealis (starflower)

Uvularia sessilifolia (sessile-leaved bellwort)

Epifagus virginiana (beech-drops)

Maianthemum canadense (Canada-mayflower)

Mitchella repens (partridge-berry)

Monotropa uniflora (one-flowered Indian-pipe) Species infrequent in northern hardwood -

Herbs and fern allies

Clintonia borealis (yellow bluebead-lily)

Huperzia lucidula (shining firmoss)

Dryopteris campyloptera (mountain wood fern)

Oxalis montana (northern wood sorrel)

Oclemena acuminata (sharp-toothed nodding

aster)

Streptopus lanceolatus (lance-leaved twistedstalk)

Shrubs & dwarf shrubs

Acer spicatum (mountain maple)

Viburnum lantanoides (hobblebush)

Chamaepericlymenum canadense (bunchberry)

Coptis trifolia (three-leaved goldthread)

Lonicera canadensis (American honeysuckle)

Polystichum braunii (Braun's holly fern)

NH Natural Heritage Bureau 39 conifer system (characteristic of hemlock - hardwood - pine forests):

Betula lenta (cherry birch)

Betula populifolia (gray birch)

Prunus serotina (black cherry)

Quercus rubra (red oak)

Hamamelis virginiana (American witch-hazel)

Gaultheria procumbens (eastern spicy

wintergreen) Viburnum acerifolium

(maple-leaved viburnum)

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9.04 Appendix D : Soil Survey Descriptions

This data dictionary provides essential information about the soil attributes contained in the spreadsheet tables located on the NH NRCS web site http://www.nh.nrcs.usda.gov/Soil_Data/Soil_Data or the attribute table accompanying the NRCS soil spatial data distributed through GRANIT (NHSoilMaster.dbf). The description, units of measure and labeling of soil attributes conforms to the standards of the USDA National Cooperative Soil Survey (NCSS) and the National Soil Information System (NASIS). The data contained within the tables are consistent with, and are derived from, the NRCS National Soil Information System. The tables located on the NH NRCS web site reflect the official soil dataset for New Hampshire. They take precedence over any other source of soil information. The attribute information is specific for each survey area and reflects the most current level of understanding of soil properties and their behavioral characteristics. This data may not agree with previously published soil survey reports that represent historical records of our level of knowledge at the time of publication. Likewise, the attribute data that is provided in these tables are subject to change

as the soil survey program continues to refine our ability to measure and interpret soil physical and chemical properties. It is the responsibility of the users of this information to adequately document when these attributes were retrieved for a specific purpose and that any land use decision made based on these attributes reflect the NCSS standards at that time. Because this data is subject to change, it is the user's responsibility to update their records as appropriate and not to rely on data previously downloaded from the NH NRCS web site or from the GRANIT web site.

9.04(a) Farmland classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

9.04(b) Forest soil group

NH Forest Soil Groups (NHFSGs) consist of map units that are similar in their potential for commercial forest products, their suitability for native tree growth, and their use and management. Considered in grouping the map units are depth to bedrock, texture, saturated hydraulic conductivity, available water capacity, drainage class, and slope. The grouping applies only to soils in the State of New Hampshire.

The NHFSGs have been developed to help land users and managers in New Hampshire evaluate the relative productivity of soils and to better understand patterns of plant succession and how soil and site interactions influence management decisions. The soils are assigned to one of five groups (IA, IB, IC, IIA, and IIB). Several map units in New Hampshire either vary so greatly or have such a limited potential for commercial forest products that they have not been assigned to an NHFSG (NC). Examples of NC map units are very poorly drained soils and soils at high elevations. The kinds of tree species generally growing in climax stands in each of the five NHFSGs vary from county to county. This information is available through local NRCS field offices.

IA—This group consists of very deep, loamy, moderately well drained or well drained soils. Generally, these soils are more fertile than other soils and have the most favorable soil moisture relationships.

IB—The soils in this group are generally sandy or loamy over sandy material and are slightly less fertile than group IA soils. Group IB soils are moderately well drained or well drained. Their soil moisture is adequate for good tree growth, but it may not be quite as abundant as that in group IA soils.

IC—The soils in this group are in areas of outwash sand and gravel. They are moderately well to excessively drained. Their soil moisture is adequate for good softwood growth but is limited for hardwoods.

IIA—This diverse group includes many of the same soils as those in groups IA and IB. The soils are separated into a unique group, however, because they have physical limitations that make forest management more difficult and costly, i.e., steep slopes, bedrock outcrops, erosive textures, surface boulders, and extreme rockiness.

IIB—The soils in this group are poorly drained. The seasonal high water table is generally within 12 inches of the surface. Productivity is generally less than that of soils in the other groups.

NC—The map units in this category either vary so greatly or have such a limited potential for commercial forest products that they have not been assigned to an NHFSG. Commonly, onsite visit would be required to evaluate the situation.

9.04(c) Hydric soils

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these

soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

9.04(d) Gravel source

Gravel consists of natural aggregates (2 to 75 millimeters in diameter) suitable for commercial use with a minimum of processing. It is used in many kinds of construction. Specifications for each use vary widely. Only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material.

The properties used to evaluate the soil as a source of gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains gravel, the soil is considered a likely source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds

the minimum thickness. The ratings are for the whole soil, from the surface to a depth of about 6 feet. Coarse fragments of soft bedrock, such as shale and siltstone, are not considered to be gravel.

The soils are rated "good," "fair," or "poor" as potential sources of gravel. A rating of "good" or "fair" means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of gravel. The number 0.00 indicates that the layer is a poor source. The number 1.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

9.04(e) Sand source

Sand is a natural aggregate (0.05 millimeter to 2 millimeters in diameter) suitable for commercial use with a minimum of processing. It is used in many kinds of construction. Specifications for each use vary widely. Only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material.

The properties used to evaluate the soil as a source of sand are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains sand, the soil is considered a likely source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness. The ratings are for the whole soil, from the surface to a depth of about 6 feet.

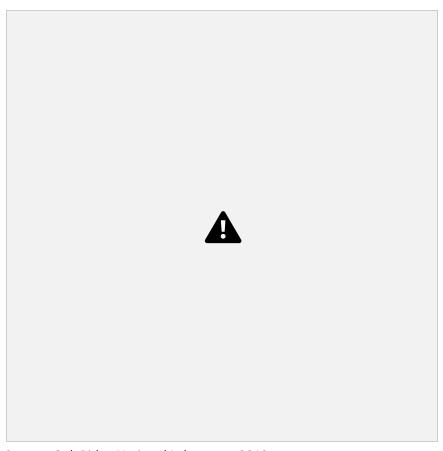
The soils are rated "good," "fair," or "poor" as potential sources of sand. A rating of "good" or "fair" means that sand is likely to be in or below the soil. The bottom layer and the thickest layer of the soil are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of sand. The number 0.00 indicates that the layer is a "poor source." The number 1.00 indicates that the layer is a "good source." A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent

composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

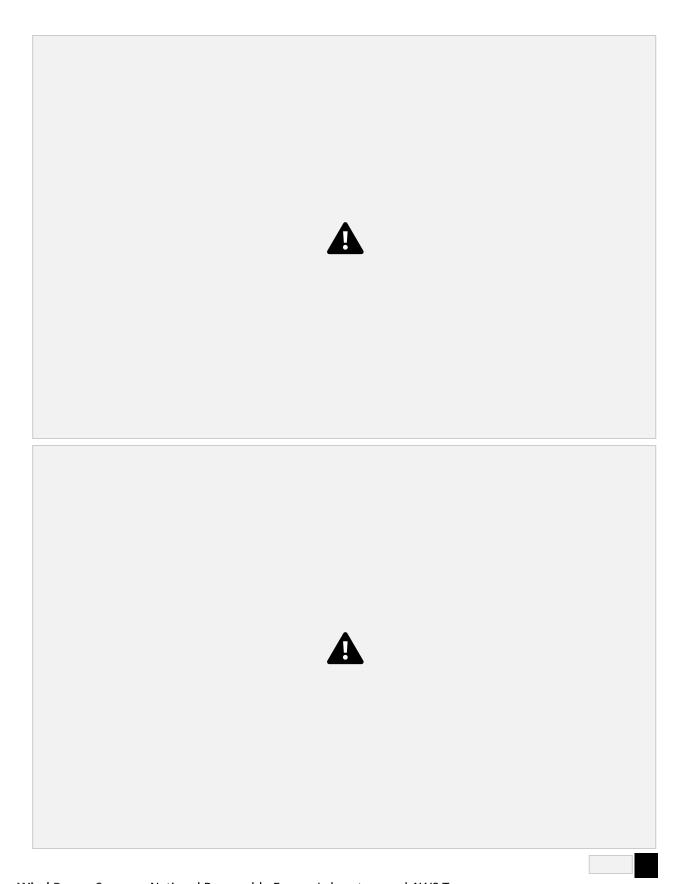
Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

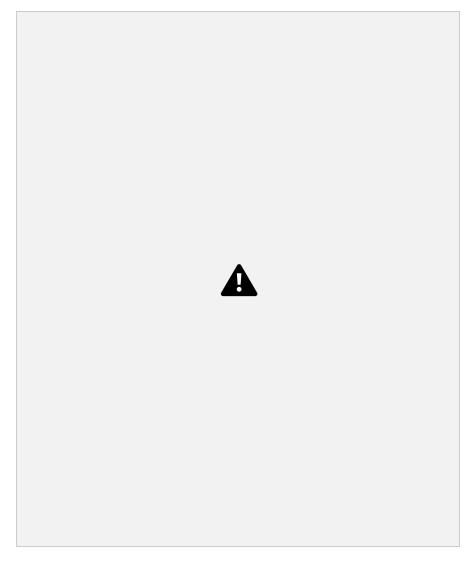




Source: Oak Ridge National Laboratory 2013

Hydropower Potential from New Stream-Reach Development for New England Region Dataset Overview. This dataset provides hydropower potential data (high-energy intensity stream-reaches and new potential areas for hydropower development) and environmental attributes in stream segments that do not currently have hydroelectric facilities in the New England Region 1 HUC. The data is aggregated to HUC10 watersheds.

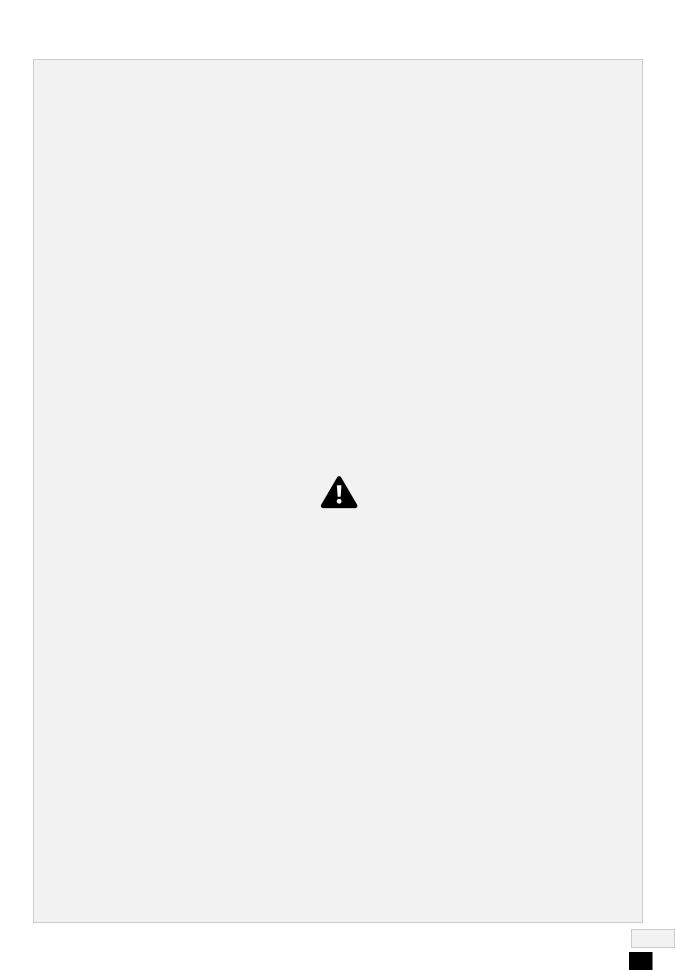




This map shows the predicted mean annual wind speeds at a 30-m height, presented at a spatial resolution of 2 kilometers that is interpolated to a finer scale. Areas with good exposure to prevailing winds and annual average wind speeds around 4 meters per second and greater at a 30-m height are generally considered to have a suitable wind resource for small wind projects. Small wind turbines are typically installed between 15 and 40 m high. Given the technological advancements in the wind industry, locations with lower wind speeds that may not have been suitable for wind development in the past may be suitable today or in the future. The average wind speeds indicated on this map are model derived estimates that may not represent the true wind resource at any given location. Small terrain features, vegetation, buildings, and atmospheric effects may cause the wind speed to depart from the map estimates. Consumers should seek expert advice for siting wind turbines and estimating their energy production.



This resource map shows estimates of wind power density at 50 m above the ground and depicts the resource that could be used for community-scale wind development using wind turbines at 50-60-m hub heights. As a renewable resource, wind was classified according to wind power classes, which were based on wind speed frequency distributions and air density. These classes ranged from Class 1 (the lowest) to Class 7 (the highest). In general, at a 50-m height, wind power Class 4 or higher could have been useful for generating wind power with turbines in the 250-kW to 750-kW rating. Given the advances in technology, resources below Class 4 may now be suitable for the new midsize wind turbines. In recognition of these continuing advancements in wind energy technologies and the ability for the current generation of wind turbines to extract cost competitive wind energy from lower wind speeds the Energy Department has moved away from the wind power classification system and now reports wind speeds only.



9.06(a) Geological

(i) Mine, Quarried, Natural Rock Features

1. Indians Cave: Located on Keyser Hill

Indians' Cave is a natural cave formed by broken granite at the surface of the hill that have shifted to create this natural cave that forms the basis of a local legend from the 1860s or earlier. Legend has a native American man and woman sheltering at the cave after small pox wiped out their tribe, but they were also infected and died together in the cave. The cave first known as Hedgehog Den was renamed by a group of excursionists in 1878 who paid a local stone cutter to carve the name and date into the stone at the cave entrance.

2. Bears' Den: Located in Simpson Reserve

Bear's Den is a natural group of huge glacial erratic boulders that form a cave near Red Water Brook, accessed today by a hiking trail.

3. Pulcifer Rock: off Caldwell Lane

Pulcifer Rock is a glacial erratic, like the nearby Bear's Den rock cluster. It is consistently referenced in all the old deeds for the land within the triangle formed by Hells Corner Road, Rte 103-B (Edgemont Road) and Caldwell Lane.

4. Twin Willow Mica Mine: Located on Mica Mine Hill north of Trow Hill Road

Sunapee's only commercial mica mine was located at a deposit discovered in the early 1880s by John L. George (1839-1919) a local farmer and amateur mineralogist. Mine operations began in 1895 by men from Lempster when large pieces of mica were worth about 1/10 the price of gold. In 1896 mining rights were purchased by the Boston Mica Company that extracted mica from the spring to fall until about 1905.

5. Samuel Bailey Granite Quarry: Located off south side of Rolling Rock Road

Samuel Bailey (1792-1892) was Sunapee's early and best-known quarryman who operated a granite quarry from the 1830s into the 1860s at this location quarrying natural fissured surface rock with hand tools, first establishing Sunapee's long quarry history.

6. Boyce & Bailey Granite Quarry: Located off Burkehaven Hill Road

In 1884 Samuel Bailey (1792-1892) sold the rights to his 2nd major quarry, north of Rolling Rock Road to his grandson Murvin Bailey and neighbor Arland Boyce. This was Sunapee's largest quarry that produced a fine grain granite called Light Sunapee and Dark Sunapee, well suited for monuments and building use. The industry was aided by the arrival of the railroad in 1877. Blocks from this quarry were purportedly used for the Library of Congress building in Washington D.C. This quarry remained active until about 1910.

7. Stocker Granite Quarry: Located off Edgemont Road

This quarry is located on land that was once Samuel Bailey's land, now owned by William Stocker. He and his family quarry, cut, shape and polish granite for a variety of uses since the 1980s to present day.

(i) Burial Grounds & Burial Structures

1. Colby Burial Ground: Located on Stagecoach Road

Established in 1801 as the town's official burial ground on land of Joshua Gage, surrounded by a stone wall. Burials include several Revolutionary War veterans. This cemetery continues to be in use today.

2. Old Eastman Burial Ground: Located on North Road

Established in 1801 as the town's official burial ground on land of Elijah

Eastman. 3. Cooper-Young Burial Ground: Located off Stagecoach Road

Established about 1808 on land of Cornelius Young, who was the first burial, and contains several Revolutionary War veteran graves. About _ were buried there, all lived in the local area of this cemetery, with the last in 1925.

4. Lower Village Burial Ground & Granite Tomb: located at Lower Main Street

Established about 1815 on land of Nathanial Perkins, where the North Meeting House was built in 1832. In 1868 the town had a granite holding tomb constructed at this cemetery. 1950 was the last burial here.

5. South Sunapee Cemetery: Located on Harding Hill Road

Established about 1822 on land owned by Thomas Pike, where the South Meeting House was built in 1833. Families from south Sunapee are buried here. This cemetery continues to be used today.

6. George's Mills Village Cemetery: Located on Main Street

Established in 1865 by Elbridge G. Chase (1815-1895) for residents of George's Mills. Graves are unusually laid-out to orient North-South with burials facing Lake Sunapee. This cemetery continues to be in use today.

7. Crowther Chapel & Burial Ground: Located on Stagecoach Road

Built in 1936 by Mary and Samuel Crowther on their property after the death of their young son John. This small stone chapel with a Tiffany window, is a quiet, reflective place in the forest on land once owned by Joshua Gage. The Crowther family graves are nearby. The Chapel is open Sundays in the summer to the public.

(ii) Early Settlement Roads & Stone Culverts / Bridges

- 1. Mill Road (stone culverts) laid-out 1769, at Webb Home Farm Forest, in use as Angell Brook Rd, Trask Brook Rd, Cross Rd, Brook Rd
- 2. Thurber Road, laid-out in 1772, in use as Stagecoach Rd, Winn Rd, North Rd to Springfield 3. Whipple Road to Croydon, laid-out in 1773, in use as Ryder Corner Rd
- 4. North Road, laid-out 1786, in use as Prospect Hill Rd, part of Otter Hill Rd 5.

County Road, laid-out 1786, in use as Bradford Rd

- 6. Goshen Road, laid-out 1789, in use as Nutting Rd
- 7. Abandoned sections of the Georges Mills Road

(iii) Sugar River Railroad

1. Railroad bed built 1870-71 from Newbury to Newport; discontinued 1955.

- 2. Granite block trestle 1871, off Paradise Rd
- 3. Wendell Depot 1872, 52 Depot Rd (see buildings)

(iv) Stone Structures

1. Sugar River Railroad granite trestle

Built in 1870 with granite blocks provided by Augustus Trask and George Paul, probably from Samuel Bailey's granite quarry off Rolling Rock Road for the Sugar River Railroad formed in 1865 to build the section of track and stations between Bradford and Claremont. The line later became part of the concord & Claremont Railroad and then the B&M Railroad. Rail traffic began over the trestle in 1872 and continued to 1955.

(v) Stone Dams

1. Sugar River granite block dam: Located on River Road

Built circa1836 by the Sunapee Company, a consortium of businessmen, it is the oldest surviving dam on the Sugar River in Sunapee. Several mills on both sides of the river were powered by water held by this dam. The damaged top section was rebuilt.

2. Sugar River gristmill, tannery & pulp mill dam: Located by Hames Park, Main Street

First built in 1797 by millwright John Chase Jr for a mill pond to power a grist and sawmill, This dam was also used by a leather tannery and excelsior mill from the 1860s to 1890s. In 1888 the dam was refurbished for use by the new wood pulp mill and in 1925, refurbished again for use by the Lake Sunapee Power Company's new hydroelectric station penstock. Portions of this dam still exist.

3. Sugar River excelsior mill dam: Located north of Town Hall, Edgemont Road

The boulder dam was built in 1888 by Wm. Clinton Stocker of Sunapee for a new excelsior mill after selling is old mill to the wood pulp company. The excelsior mill operated until about 1898. In 1895 the Sunapee Electric Light Company, of Clinton Stocker and his nephew Arthur Stocker, located a turbine at the excelsior mill powered by water in the mill pond at this dam, and installed the first village street and house lighting.

4. Sugar River Smithville dam: Located off Abbott court

Boulder dam built in 1854 by John B. Smith (1818-1884) arguably Sunapee's most important machinist, inventor and industrialist, who founded Smith Machine Company in the lower village on the bank of the Sugar River where he built a wood shop, machine shop, and forge where his patented wooden clothes pin machines were manufactured for sale across the country. His mills burned down in 1871 but he rebuilt and in 1874 had perfected a grinding technique to make a perfect two-piece achromatic lens, then the standard for telescopes. John had become interested in astronomy and was one of very few men in America who had achieved this. John produced about 5 telescopes in Sunapee, quite an achievement. One telescope was 60" long, 4" diameter with a power from 80 to 400 diameters. His telescopes were purchased by the Cambridge Observatory and Grand Prairie College.

5. Sugar River George Sawmill Canal: Located off Lower Main St.

About 1840 Elijah George 2nd and his sons began construction of canal, about 370-ft long, averaging 6-ft deep and totalling about 644,000 cu ft of soil and rock dug and moved by hand on the south side of the Sugar River to flow water to a grist and sawmill that they built located south of the Lower Main Street bridge. The canal remained in use until 1887. It remains as a land form with stone walls and the remains of pulleys and shafts from the mill.

6. Sugar River Trow Sawmill dam: Located off Lower Main St

south side of the Sugar River. After damage to the dam from the Great Hurricane of 1938, a diesel engine provided power to run the mill instead of water power. The canal was filled in, but the portions of the stone dam remain. This sawmill continues to be operated by the 4th generation, Jeffrey Trow in 2022, a 127-year family history on this site. The Trow Sawmill is the last operating wood products mill in Sunapee.

7. Sugar River dam at Wendell Marsh

About 1800, Abiathar Young (1753-1827) built a dam that created Wendell Marsh to operate a sawmill at the south end of today's marsh. Operation of the sawmill continued after his death by his 4 sons until 1832 when the land was sold out of the family. In 1923 the Abiathar Young water flow rights and dam site were sold to Francis Murphy, who represented the newly formed Lake Sunapee Power Company. A new dam was built near the site of the old dam and nearly 1-mile of 6-ft diameter wooden penstock was built to power a 750-HP hydro-electric turbine located near Wendell Depot. This dam and hydro-electric facility operated until 1952. The dam remained in place and in 2014 was rebuilt to modern standards by the NH Fish and Game Department to maintain water levels in Wendell Marsh, a wildlife refuge.

8. Otter Pond dam at Otter Brook

In the late 1780s John Harvey built a mill at Otter Pond, sold to Ichabod Hearsee in 1791, and sold again in 1805 to miller Daniel George. The dam at Otter Pond has been maintained to this day. Daniel George and his descendants operated grist and sawmills on Otter Brook that flows from this dam into the 1890s. The village of Georges Mills was named for Daniel George.

9. Ledge Pond Brook dams

The stone dams on Ledge Pond Brook were built about 1810 by Caleb Mudgett and about 1840, probably by Wells Davis to create two mill ponds on Ledge Pond Brook for the operation of a sawmill on the brook at the north side of Perkins Pond Road. In 1849 the sawmill was owned by James Trow, who built a third dam at Ledge Pond. From James, 5 generations of the Trow family have operated sawmills in Sunapee and continue to do so in 2022. These stone dams exist in 2022 and two are protected in the MacWilliams Lot, conserved by Ausbon Sargent. The sawmill operated from about 1810 to the 1880s.

10. Angell Brook sawmill dam

This stone dam powered a sawmill, built bout 1795, by Joseph Chase on Angell Brook at the north side of Bradford Road. It was one of two sawmills in south Sunapee and the only dam remnants in this part of town to survive today.

(vi) Stone Walls

- 1. Range & Lot line stone walls (see stone wall mapper)
- 2. Farm yard & pasture stone walls
- 3. Granite bank walls at roads: High Street 1890, Central St 1948
- 4. Granite bank walls at river: Hames Works at High Street 1890, Main St at Rte.11 1909 5. Granite bank walls at lake: Sunapee Harbor 1890

(vii) Cellar holes and barn foundations

- 1. Wm McBritton house site at Webb Home Farm Forest
- 2. E. Young-Eleaser Sischo house site at Webb Home Farm Forest
- 3. Nathaniel Perkins house site c1800 at 279 Youngs Hill Rd
- 4. Joshua Freeto house site 1829, at Wendell Marsh
- 5. Francis Pingree c1794, Trow Hill Road
- 6. Sam Cilley-Josiah Conant farm house c1800, Dodge Pasture Rd 7.

Theodore Davis farm house & barns c1828, Dodge Pasture Rd 8. James Eastman farm house c1834 Maurer Rd

- 9. Robert Emerson farm house c1800, Dodge Pasture Rd 10. David Perrin - Noyes farm house c1810, Dodge Pasture Rd 11. No. 6 Schoolhouse 1817 site of 741 North Rd
- 12. Joseph Pillsbury farm house c1795 off Main St Geo Mills 13. Jacob Evans-John Bartlett farm house & barn c1780, site of 800 North Rd

(viii) S<u>ignificant Buildings</u>

	Circa year	Description	Location		Circa year	Description
m	1780	Benjamin George	101 Bradford Rd	8	1892	Loon Island Lighthouse

1			1		
	farm house		и 0 В	rebuilt 1960	
1780	Woodward farm house	Bradford Road	8 i	1909 rebuilt 19802	Burkehaven Lighthouse
1780s	Esek Young -John Angell farm house	45 Angell Brook Rd	L	1859	Methodist Church parsona
1789	Whittier Perkins farm house	175 North Road		1871	Methodist Church
1790	William Gage farm house	324 Stagecoach Rd	r u	1897	Methodist Church
1790s	Abiathar Young farm hou			1898	St. James Episcopal Church
1791 rebuilt 1881	Stephen Lang farm house	3 Messer Rd	c	1860	No. 5 Schoolhouse
1790s	Daniel Moses - Merrill farm house & barns	144 Route 11		1867	No. 8 Schoolhouse
1790 altered 1931	Joshua Gage farm house & barns	258 Stagecoach Rd		1870	No. 7 Schoolhouse
1794	Abijah Emerson farm house	526 North Road	5 U 0 h	1877	No. 2 Schoolhouse
1795	Ichabod Heasee farm house	1279 Route 11	0 b	1877	No. 3 Schoolhouse
1796	Esquire Woodward farm house	Keyes Road off Trow Hill Rd		1893	No. 1 Schoolhouse
1798	Philbrick Huntoon farm house	77 Burkehaven Hill Rd	5	1815	Dane house general store
1798	Samuel George farm ho		y t i	1826	Conant - Russell Store
1800	Job Clapp farm house	110 Brook Rd	m .A	1835	Cutting tavern house
1800	James Young farm house	34 Stagecoach Rd	,	1843	Marble General Store
1800	Enoch Perkins farm house	140 Perkins Pond Rd	r 0 t	1850	Gardner Tavern
1800	Perkins farm house	140 Perkins Pond Rd		1851	Josiah Turner's general sto
	1780s 1789 1790 1790s 1791 rebuilt 1881 1790s 1790 altered 1931 1794 1795 1796 1798 1800 1800 1800	1780 Woodward farm house 1780s Esek Young -John Angell farm house 1789 Whittier Perkins farm house 1790 William Gage farm house 1791 Stephen Lang farm house 1791 Poss Daniel Moses - Merrill farm house & barns 1790 Joshua Gage farm house & barns 1790 Abijah Emerson farm house 1794 Abijah Emerson farm house 1795 Ichabod Heasee farm house 1796 Esquire Woodward farm house 1798 Philbrick Huntoon farm house 1798 Samuel George farm house 1800 Job Clapp farm house 1800 James Young farm house 1800 Enoch Perkins farm house	1780 Woodward farm house Bradford Road 1780s Esek Young -John Angell farm house 1789 Whittier Perkins farm house 1790 William Gage farm house 1790 Abiathar Young farm house 1791 Stephen Lang farm house 1790 Daniel Moses - Merrill farm house & barns 1790 Joshua Gage farm house & 258 Stagecoach Rd 1790 Abijah Emerson farm house 1791 Ichabod Heasee farm house 1794 Abijah Emerson farm house 1795 Ichabod Heasee farm house 1796 Esquire Woodward Keyes Road off Trow Hill Rd 1798 Philbrick Huntoon farm house 1798 Samuel George farm house 1800 Job Clapp farm house 1800 James Young farm house 1800 Iames Young farm house 1800 Enoch Perkins farm house 140 Perkins Pond Rd	1780 Woodward farm house Bradford Road 1780s Esek Young -John Angell Farm house 1789 Whittier Perkins farm house 1790 William Gage farm house 1790 Abiathar Young farm house 1790s Daniel Moses - Merrill farm house & barns 1790 Joshua Gage farm house & barns 1790 Abijah Emerson farm house 1791 Esquire Woodward farm house 1795 Ichabod Heasee farm house 1796 Esquire Woodward farm house 1798 Philbrick Huntoon farm house 1798 Samuel George farm house 1800 Job Clapp farm house 1800 James Young farm house 1800 Enoch Perkins farm house 1800 Enoch Perkins farm house 1800 Enoch Perkins farm house 1700 Abight Emerson farm house 1700 Abight Emerson farm house 1701 Burkehaven Hill Rd 1702 Burkehaven Hill Rd 1703 Burkehaven Hill Rd 1704 Abight Emerson farm house 1705 Abight Emerson farm house 1706 Esquire Woodward farm house 1707 Burkehaven Hill Rd 1708 Samuel George farm house 1709 Abight Emerson farm house 1709 Abight Route 11 1709 Abight Emerson farm house 1709 Abight Route 11 1709 Abight Emerson farm house 1709 Abight Route 11 1709 Abight Ro	1780 Woodward farm house Bradford Road 1909 rebuilt 19802 1780s Esek Young -John Angell Farm house 45 Angell Brook Rd 1859 1789 Whittier Perkins farm house 175 North Road 1871 1790 William Gage farm house 324 Stagecoach Rd 1897 1790s Abiathar Young farm house 3 Messer Rd 1860 1791 rebuilt 1881 Daniel Moses - Merrill farm house & barns 144 Route 11 1867 1790 Joshua Gage farm house & barns 258 Stagecoach Rd 1870 1791 Abijah Emerson farm house 526 North Road 1877 1794 Abijah Emerson farm house 1279 Route 11 1877 1795 Ichabod Heasee farm house 1279 Route 11 1877 1796 Esquire Woodward farm house Keyes Road off Trow Hill Rd 1893 1798 Philbrick Huntoon farm house 77 Burkehaven Hill Rd 1815 1798 Samuel George farm house 110 Brook Rd 1835 1800 Job Clapp farm house 110 Brook Rd 1843 1800 James Young farm house 140 Perkins Pond Rd 1850

Circa year	Description	Location		Circa year	Description
1800	Francis Smith farm house	511 North Road		1855	Hopkins Wallet Shop hous
1800	Samuel Patch farm house & barn	962 Route 11		1857	Tin Shop
1800	Hadley Muzzey farm house	1007 Main St Georges Mills		1870	Knowlton Block – IOOF Ha
1802	Joseph Chase farm house	47 Harding Hill Rd		1872	Wendell Depot
1804	Thomas Pike farm house	28 Bradford Rd		1889	Hame Works Office
1805	Trask-Paul farm house	9 Youngs Hill Rd		1890	Flanders Livery-Museum
1805	Enoch Harvey farm house	171 Burkehaven Hill Rd		1890	Harbor Hotel Livery
1806	James Atwood farm hous		e 5	1792	Philip Huntoon Stone Hous
1808	Asahel Dickinson farm house	66 Hells Corner Rd	н	1800	Jonathan Worster house
1808	Joshua Bartlett farm hou			1800	Moses Muzzey house
1809	John Currier farm house	26 Caldwell Lane		1800	Stone House
1810	Caleb Whitaker farm hou			1823	Nathan Burpee - Russell ho
1810	Jonathan Crowell farm house	143 Bradford Rd		1832	John Colby house
1810	Cornelius Young farm house & barn	207 Stagecoach Road		1840	Moses Muzzey house
1810	Samuel Gardner farm house	24 Fairway Drive		1844	Jesse Wilson house
1812	Amos Rowell-Levi Colby farm house	172 Sleeper Rd		1845	Amos George house
1812	Moses Eastman farm house	247 Prospect Hill Rd		1851	William Stevens house
1815	Clapp farm house	59 Cross Rd		1854	John B. Smith house
1815	Abiathar Young Jr farm house	164 Lower Main St		1876	Robert C. Osgood cottage, Island, oldest surving lake

1820s	Samuel Bailey farm barn	154 Edgemont Rd	1880	Pleasant Home - Conrad M
1821	Ichabod Eastman farm house	12 Ryder Corner Rd	1906	Billy B Van estate house ar

e Circa year	Description	Location		e Circa year	Description
1822	Abial Cooper farm house	28 Old Granliden Rd	r a	1830s	Ryder farm house
1824	William Trow farm house	16 Trow Hill Road		1832	Hackett farm house
1825	Ira Hurd farm house	270 Nutting Rd		1832	Abial Cooper farm house
1825	William Trow farm house	915 Route 11		1832	John Balch farm house
1825	Eliakim Putney farm house & barn	37 Meadow Brook Rd		1832	John Gardner farm house
1825	Jacob Stickney farm house	60 Wayland Rd off Prospect Hill Rd		1835	Daniel George Jr. farm hou
1825	Elbridge Chase farm house & barns	79 Prospect Hill Rd		1840s	Gideon Angell farm barn
1828	Francis Pingree farm house	Woodham Springs Route 11		1840	Gardner farm barn
1830s	Elijah George farm barn	325 North Rd		1840s	Welcome Angell farm hou
1830	Oliver Young farm house	66 Stagecoach Rd		1847	Elias Abbott farm house



(i) Hiking & snowmobile trails

- 1. Ledge Pond Town Forest trails
- 2. MacWilliams Conservation Land trails
- 3. Class 6 Dodge Pasture Rd, laid-out 1810, abandoned in 1930s.
- 4. Dewey Woods Town Forest 1928, hiking trails 2007 & 2011
- 5. Garnet Hill Park 1948, hiking trails 2011
- 6. Wendell Marsh Town Forest trails
- 7. Harbor River Walk 1997
- 8. Tilton Park aka Ski Tow Hill, 1938, Sun-Ragged-Kearsarge Greenway Trail 9.

Frank Simpson Reserve 2004, Sun-Ragged-Kearsarge Greenway Trails 10. Webb

Harrison lot trail 2006

- 11. Webb Home Farm Forest trails 1972
- 12. Abandoned railroad bed trail
- 13. Webb-Dane Lot trail 2006

(ii) Parks

- 1. Sunapee Harbor Park 1971, Bandstand 1996, Main St.
- 2. Sunapee Harbor Town Wharf 1944, Main St.
- 3. Coffin Park 1966, Harbor River Walk 1997, Fitness equipment 2020, Edgemont Rd 4.

Tilton Park aka Ski Tow Hill 1938, Playground at Edgemont Rd

- 5. Hames Park 1998, 42 Main St
- 6. Osborne Reflecting Pool 1966, at High St bridge
- 7. Veterans' Park 1948, ball field, 567 Route 11
- 8. Dewey Beach 1936, Garnet St
- 9. Dewey Woods Ball Field 1973 & 1990
- 10. Georges Mills Beach & Town Wharf 1938, Cooper St

(iii) Water Body Access

1. Sunapee Harbor town wharf and boat launch 1944, 83 Main St

- 2. Georges Mill town wharf and boat launch, Cooper St
- 3. Dewey Beach, 1936 Garnet St
- 4. Perkins Pond boat launch, Perkins Pond Rd
- 5. Ledge Pond, off Meadow Brook Rd
- 6. Sugar River at River Road
- 7. Sugar River at Coffin Park
- 8. Sugar River at Wendell Marsh

(iv) Scenic Vistas and Viewpoints

- 1. View to Corbin Park from Burkehaven Hill Road
- 2. View to Mt Sunapee from North Rd, Trow Hill Road
- 3. View of Sugar River from River Road
- 4. View to Mt Sunapee from Trask Brook Road
- 5. Views of Lake Sunapee from Harbor & Beaches
- 6. Note: Lake Sunapee Scenic & Cultural Byway: 103-B / Rte 101 / Rte 11 / Sun Harbor

9.07 Appendix G : Conservation Plan Process

At the regular meeting of the Sunapee Conservation Commission on November 11, 2022, project consultant (Upper Valley Lake Sunapee Regional Planning Commission) facilitated a prioritization exercise. Commission members were asked to provide their priority focus areas, focus topics, and specific actions for the conservation plan. Members were provided with Town maps and results of the co-occurrence analysis to inform their choices. The consultant than facilitated discussion with opportunity for members to describe their choices and for consensus on how similar items were grouped together. Once priorities were understood, members were asked to select those focus areas and focus topics of highest priority. Members who were not in attendance at the meeting shared their

highest priorities via email based on those chosen during the meeting. This process resulted in the following:

Focus topics.
Each heading
indicates a group of
priorities and
discussion topics,
further described
under each bullet.
The numerical
value next to each
heading reflects
the number of SCC
members who

voted for this topic



as a high priority.

• 5 - Water / sewer

infrastructure

- where expansion might occur
- advance development where infrastructure available to reduce impact on natural resources

• 5 - Planning and zoning

collaboration

- Advance enforcement through available staffing
- Reduce variance and increase predictability
- o Consider appropriate enforcement and use of fines
- Increase lot size in rural residential
- Ensure changes in planning/zoning include consultation with SCC and consideration of conservation values
- 4 Protect resiliency zones
 - Protect resilient areas
 - Wetlands protection
- 4 Protect drinking water sources
 - Municipal water source protection
 - Zoning protection for future wells
 - Protection of aquifers
- 3 Invasives management
 - Unsure where to start, not much information available outside of the efforts by LSPA
 - Keep scenic vista sight lines clear from invasive species disturbance.
 - o Flip side is to advance native plants and species.
- 3 Preserve farmland and important farmland soils
- 2 Advance natural settings recreation
 - Support existing and new places

<u>Focus areas</u>. Each heading indicates a group of priority areas, further described under each bullet. The numerical value next to each heading reflects the number of SCC members who voted for this topic as a high priority.

- 5 South Sunapee south of Rte. 103 (connection to large Mt Sunapee tracts) Concern for use of NH Highway garage at high co-occurrence area along Nutty Rd Discussion of opportunity to connect with Q2C corridor just south
- 5 Wellhead and drinking water supply protections
 - Wendell Marsh Well head protection area
 - Shoreland along Lake Sunapee protections, particular concern for homes not connected to public systems and septic that may fail, impacting WQ
 - Wellhead protection areas over all
- 5 Red Water Creek to Mud Pond including Blueberry Mt southeast corner of town •

- 4 Identify preferred area for development and no development
- 4 Ledge Pond / northwest corner of town (highest rated area on the draft co-occurrence map) •
- 1 Lower Sugar River

<u>Specific actions</u>. Each item listed below was identified as a specific action the SCC could take as part of the Conservation Plan. These items were not prioritized.

- Continue protecting large and small high value conservation lands
- Protecting large undeveloped land tracts
- Identify prime wetlands
- Zoning protection now for future municipal wells
- Enforcing existing regulations
- Integrating NRI into planning board decision making
- Protecting wildlife corridors
- No variances
- What can be done to further protect NW Sunapee?

<u>Interviews</u>. To inform the Conservation Plan, project consultant performed a series of interviews with the following individuals.

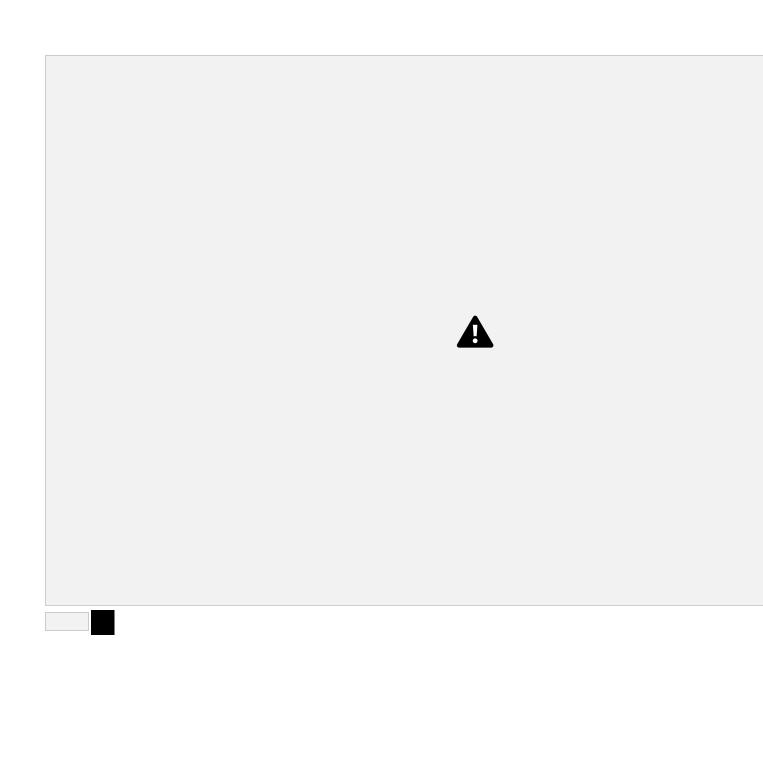
- Town Water and Sewer Department, Aaron Cartier.
- Town Recreation Department, Steve Bourque.
- Town Highway Department, Scott Hazelton.
- Town Planning and Zoning Department, Scott Hazelton and Michael Marquise. Lake Sunapee Protective Association, Geoff Lizotte.

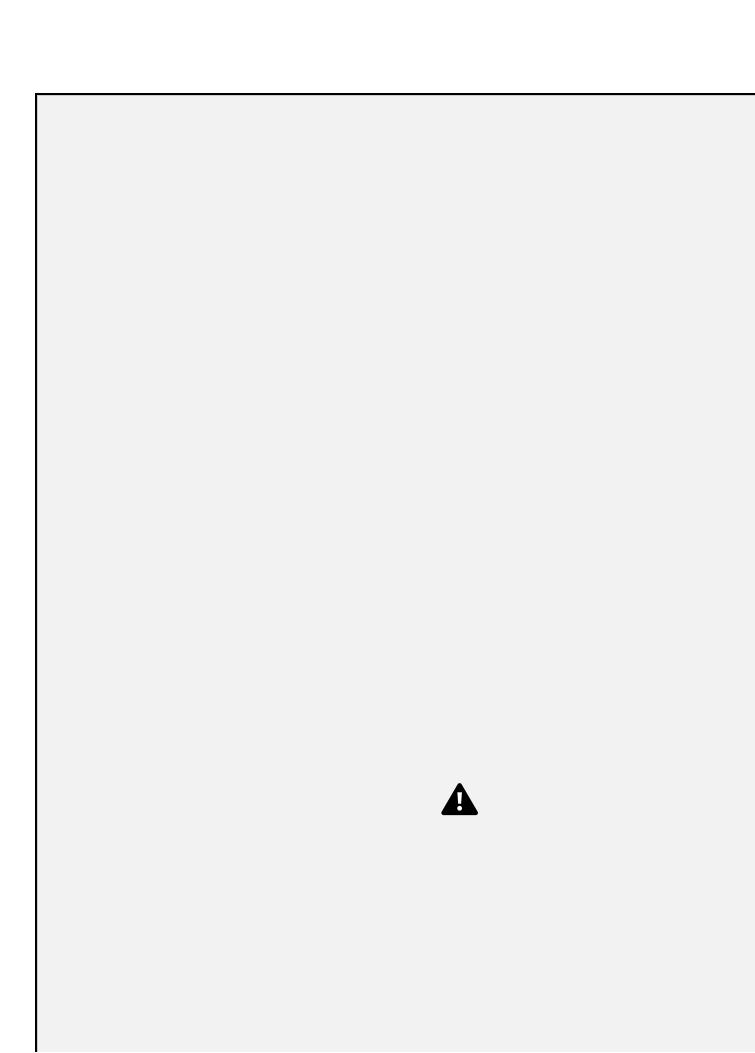
9.08 Appendix H : Additional Resources

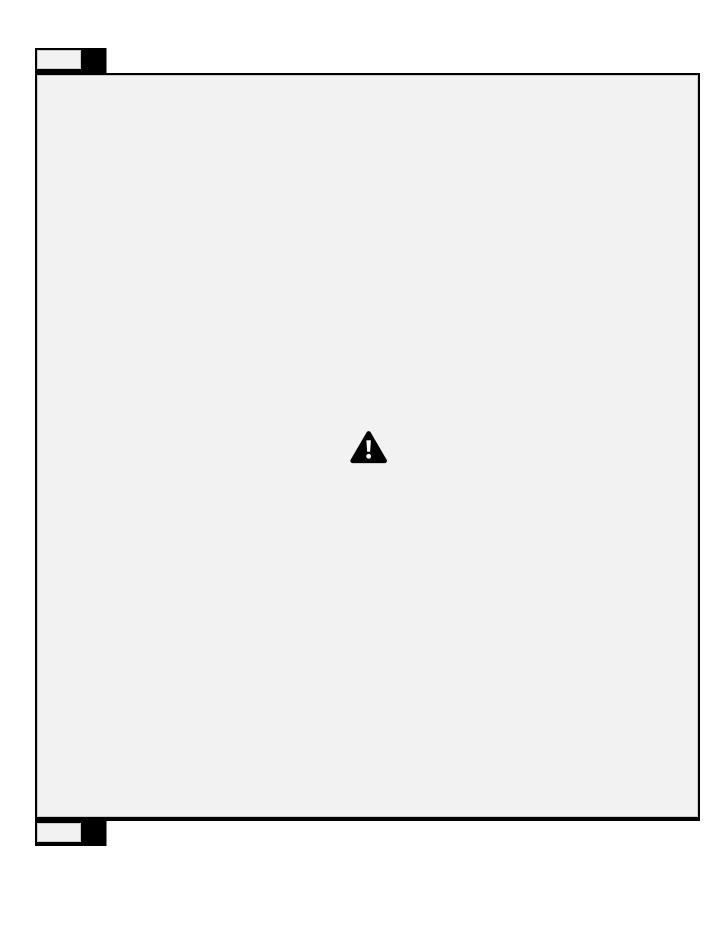
This Appendix contains the following information:

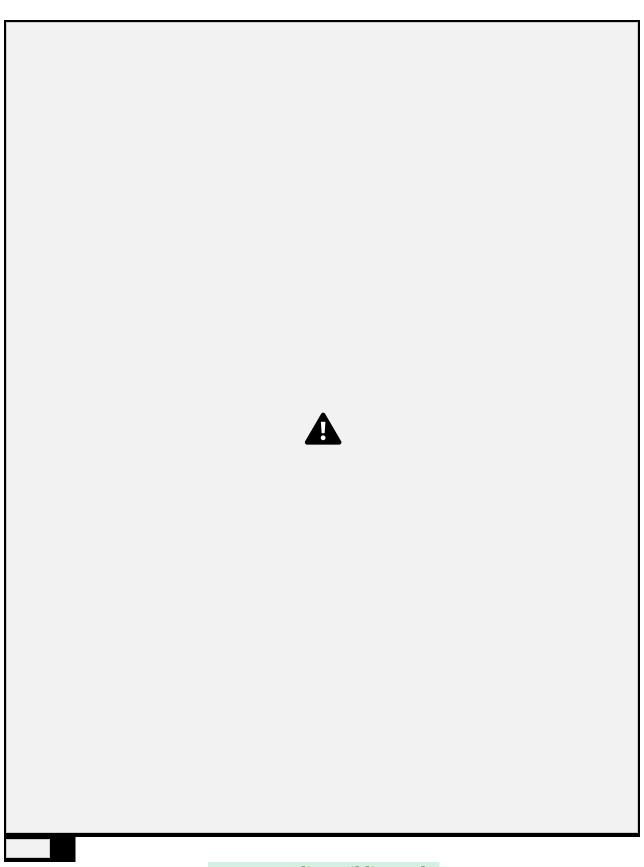
- 1. Private Well water testing & exceedance rates in Sunapee (2006-2020) 2. Quabbin to Cardigan Partnership, 2018 Regional Plan
- 3. Lake Sunapee Scenic and Cultural Byway brochure
- 4. Lake Sunapee Ice-Out dates according to the Sunapee Historical Society











9.09 Appendix I: Bibliography

Anderson, M.G., A. Barnett, M. Clark, C. Ferree, A. Olivero Sheldon, J. Prince. 2016. Resilient Sites for Terrestrial Conservation in Eastern North America. The Nature Conservancy, Eastern Conservation Science.

Anderson, M.G., Barnett, A., Clark, M., Prince, J., Olivero Sheldon, A. and Vickery B. 2016. Resilient and Connected Landscapes for Terrestrial Conservation. The Nature Conservancy, Eastern Conservation Science, Eastern Regional Office. Boston, MA.

Anderson, M.G., M. Clark, and A. Olivero Sheldon. 2014. Estimating Climate Resilience for Conservation across Geophysical Settings. Conservation Biology 28 (4) 1523-1739. http://dx.doi.org/10.1111/cobi.12272

Ardizone, Katherine A. and Mark A. Wyckoff, FAICP. FILLING THE GAPS: Environmental Protection Options for Local Governments, 2nd Ed. Michigan Department of Natural Resources and Environment, Coastal Management Program with financial assistance from the National Oceanic and Atmospheric Administration, authorized by the Coastal Zone Management Act of 1972. December 2010.

Auger, P. & J. McIntyre. 1991. Revised 2001 by A. J. Lindley Stone. *Natural Resources Inventories: A Guide for New Hampshire Communities and Conservation Groups*. Durham, NH: University of New Hampshire Cooperative Extension.

Centers for Disease Control and Prevention (CDC). 2022, June 1. Harmful Algal Bloom (HAB)-Associated Illness. Available online at https://www.cdc.gov/habs/

Connecticut River Joint Commissions. "A Homeowner's Guide to Water Quality Protection." 2018, https://cric.org/wp-content/uploads/2018/10/homeguide-07162018R.pdf.

Flavelle, Christopher, et al. "New Data Reveals Hidden Flood Risk Across America." *The New York Times*, The New York Times, 29 June 2020, https://www.nytimes.com/interactive/2020/06/29/climate/hidden flood-risk-maps.html.

Jay, A., D.R. Reidmiller, C.W. Avery, D. Barrie, B.J. DeAngelo, A. Dave, M. Dzaugis, M. Kolian, K.L.M. Lewis, K. Reeves, and D. Winner, 2018: Overview. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 33–71. doi: 10.7930/NCA4.2018.CH1

Lake Sunapee Protective Association (LSPA). 2016. Water Quality Trends and Concerns. Available online at: https://www.lakesunapee.org/trends-concerns

Lemcke-Stampone, Mary D.; Wake, Cameron P.; and Burakowski, Elizabeth, "New Hampshire Climate Assessment 2021" (2022). The Sustainability Institute. 71.

Moore, R.B., Johnson, C.D., and Douglas, E. M. 1994. Geohydrology and water quality of stratified-drift aquifers in the lower Connecticut River basin, southwestern New Hampshire: U.S. Geological Survey Water-Resources Investigations Report 92-4013. Denver, CO: United States Geological Survey Earth Science Information Center.

Murphy, J. and L. Anderson, 2019. Responsible Wind Power and Wildlife. Washington, DC: National Wildlife Federation.

National Wildlife Federation. 2013. *Wildlife in a Warming World*. Available online at: https://www.nwf.org/~/media/PDFs/Global-Warming/Reports/NWF_Wildlife-WarmingWorld_Report_web.pdf

New Hampshire Bureau of Economic and Labor Market Information. 2008. *Community Profiles*. Available online at: http://www.nh.gov/nhes/elmi/communpro.htm.

New Hampshire Department of Environmental Services (NHDES). 2021. Status Report on the Occurrence of Per- and Polyfluoroalkyl Substance (PFAs) Contamination in New Hampshire. Concord, NH: New Hampshire Department of Environmental Services.

New Hampshire Department of Environmental Services (NHDES). 2021. New Hampshire Fish Consumption Guidelines. Available online at https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/ard-ehp-25.pdf

New Hampshire Department of Environmental Services (NHDES). 2021. Cyanobacteria Sightings Reported - Gloeotrichia. Available online at https://www.des.nh.gov/news-and-media/cyanobacteria sightings-reported-gloeotrichia

New Hampshire Department of Environmental Services (NHDES). 2022. New Hampshire Watershed Report Cards built from the 2020/2022, 305(b)/303(d), HUC 12: Newport Tributaries. Available online at https://www4.des.state.nh.us/onestoppub/SWQA/010801060405_2020.pdf

New Hampshire Department of Environmental Services (NHDES). 2022. New Hampshire Watershed Report Cards built from the 2020/2022, 305(b)/303(d), HUC 12: Sunapee Lake. Available online at https://www4.des.state.nh.us/onestoppub/SWQA/010801060405_2020.pdf

New Hampshire Department of Environmental Services. 2008. *DES List of Fourth Order and Higher Streams (Publication WD-08-9)*. Available online at http://des.nh.gov/organization/divisions/water/wetlands/cspa/index.htm.

New Hampshire Department of Environmental Services. 2008. *DES List of Public Water Supplies*. Available online at http://www2.des.state.nh.us/OneStop/.

New Hampshire Department of Environmental Services. 2008. *Official List of Public Waters*. Available online at http://www2.des.state.nh.us/OneStop/.

New Hampshire Department of Natural and Cultural Resources Division of Forests and Lands. 2020. *New Hampshire Forest Action Plan*. Available online at: https://www.nh.gov/nhdfl/documents/nh <a href="https://www.nh.gov/nhdfl/documents/nh] <a href="https://www.nh.gov/nhdfl/documents/nh] <a href="https://www.nh.gov/nhdfl/documents/nh] <a href="https://www.nh.gov/nh] <a href="https://www.nh.gov/nh] <a href="https://www.nh.gov/nh] <a href="https://www.nh.gov/nh] <a href="https://www.nh.gov/nh] <a href="https://www.nh.gov

New Hampshire Department of Revenue Administration. 2021 (reports generated annually). *Current Use Reports*. Available online at: https://www.revenue.nh.gov/mun-prop/property/equalization 2019/documents/current-use-alpha.pdf.

New Hampshire Fish and Game Department. 2015. *Wildlife Action Plan*. Concord, NH: New Hampshire Fish and Game Department.

New Hampshire Natural Heritage Bureau. 2008. *Rare Plants, Rare Animals and Exemplary Natural Communities in New Hampshire Towns* (an online resource, regularly updated). Concord, NH: Department of Resources and Economic Development.

New Hampshire Office of Energy and Planning. 2022. *OEP Population Projections*. Available Online at: https://www.nh.gov/osi/data-center/population-projections.htm.

Omernik, J.M., and G.E. Griffith. 2014. Ecoregions of the conterminous United States: evolution of a hierarchical spatial framework. Environmental Management 54(6):1249-1266, http://dx.doi.org/10.1007/s00267-014-0364-1.

Simpson M.H., Stack L.J., Gruber J., Wood R., Crosslin T., Lawson C., Roseen R., Smith J. 2012. Stormwater drainage system vulnerability, capacity, and cost: Response to climate change and population growth. Final project report: Sectoral Applications Research Program FY2009, Climate Program Office, National Oceanic and Atmospheric Administration

Society for the Protection of New Hampshire Forests and The Nature Conservancy NH Field Office. 2005. *New Hampshire's Changing Landscape 2005*. Concord, NH: Society for the Protection of New Hampshire Forests.

Sperduto, D. D. & W. F. Nichols. 2004. *Natural Communities of New Hampshire*. Concord, NH: New Hampshire Natural Heritage Bureau and The Nature Conservancy.

United States Department of Agriculture Natural Resources Conservation Service. 1999. *Soil Survey of Sullivan County Area, New Hampshire*. Available online at: http://nh.nrcs.usda.gov/Soil Data/index.html.

Wake, Cameron P.; Burakowski, Elizabeth A.; Wilkinson, Peter; Hayhoe, Katharine; Stoner, Anne; Keeley, C.; and LaBranche, Julie, "Climate Change in Southern New Hampshire: Past, Present and Future" (2014). The Sustainability Institute. 2. https://scholars.unh.edu/sustainability/2