

LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - BASE MAP

- Lyndeborough
- 1 Mile Buffer
- Town Properties
- Tax Parcels
- Buildings
- 100 Foot Contours
- Ponds
- Rivers & Streams
- NWI Wetlands (All Types)
- Conservation Lands
- Transportation Network
- State Maintained Primary
- State Maintained Secondary
- Town Maintained Paved
- Town Maintained Dirt
- Town Unmaintained
- Private
- Railroad
- Trails

Notes:  
A one-mile buffer around the town of Lyndeborough is provided to show natural and cultural features of immediate importance to planning, conservation, and other activities in Lyndeborough. Throughout this report, analyses of wetlands, streams, conservation areas, and other natural elements do not quantify those features within the buffer, unless specified otherwise.

A one-point border was applied to buildings to make them more visible. Without the border many were too small to be seen. No distinction is made between houses, barns, or other buildings.

Town, road, stream, and pond names are shown here, but are left off of some other maps to keep them as uncluttered as possible.

Wetlands shown here are those identified by the U.S. Fish & Wildlife Service for the National Wetlands Inventory. Many different ecological types of wetlands were described for the area but the depth of detail exceeds the scale of this map. Furthermore, hydric soils as identified by the USDA Soil Conservation Service are not included here. More information is provided in the Wetlands & Water Resources Section of this report.

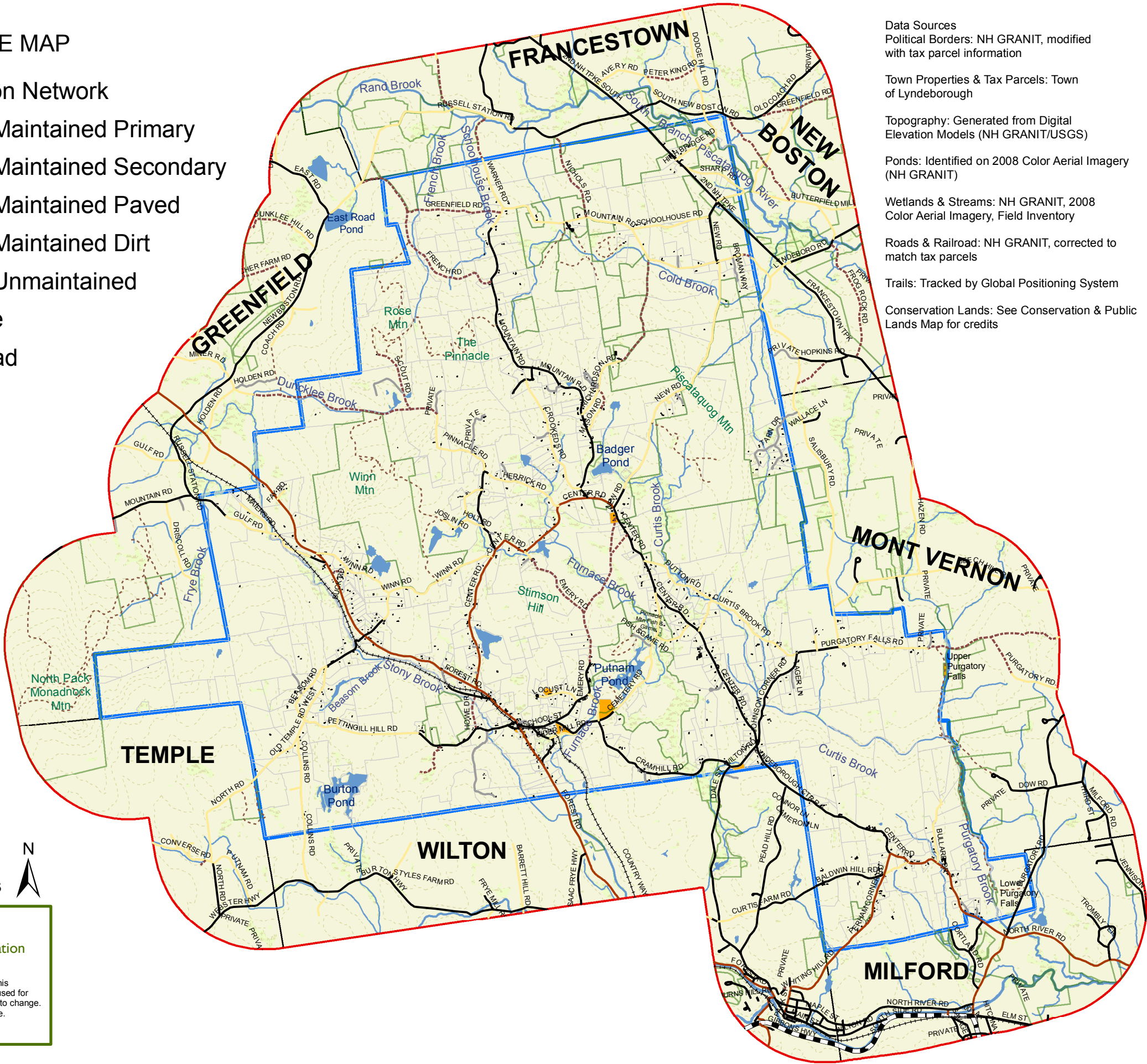


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Data Sources  
Political Borders: NH GRANIT, modified with tax parcel information  
  
Town Properties & Tax Parcels: Town of Lyndeborough  
  
Topography: Generated from Digital Elevation Models (NH GRANIT/USGS)  
  
Ponds: Identified on 2008 Color Aerial Imagery (NH GRANIT)  
  
Wetlands & Streams: NH GRANIT, 2008 Color Aerial Imagery, Field Inventory  
  
Roads & Railroad: NH GRANIT, corrected to match tax parcels  
  
Trails: Tracked by Global Positioning System  
  
Conservation Lands: See Conservation & Public Lands Map for credits





LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - GEOLOGY

Bedrock Geology - Rock Types

- Littleton Formation

Spaulding Tonalite

Smalls Falls Formation

Perry Mountain Formation

Rangeley Formation
- Lower Rangeley Form.

Upper Rangeley Form.

Gray Biotite Granite

Massabesic Gneiss

Faults

Surficial Geology Features

- Alluvial Deposits

Outwash

Till
- Drumlins

Talus, Slabs, Rocky Ridges

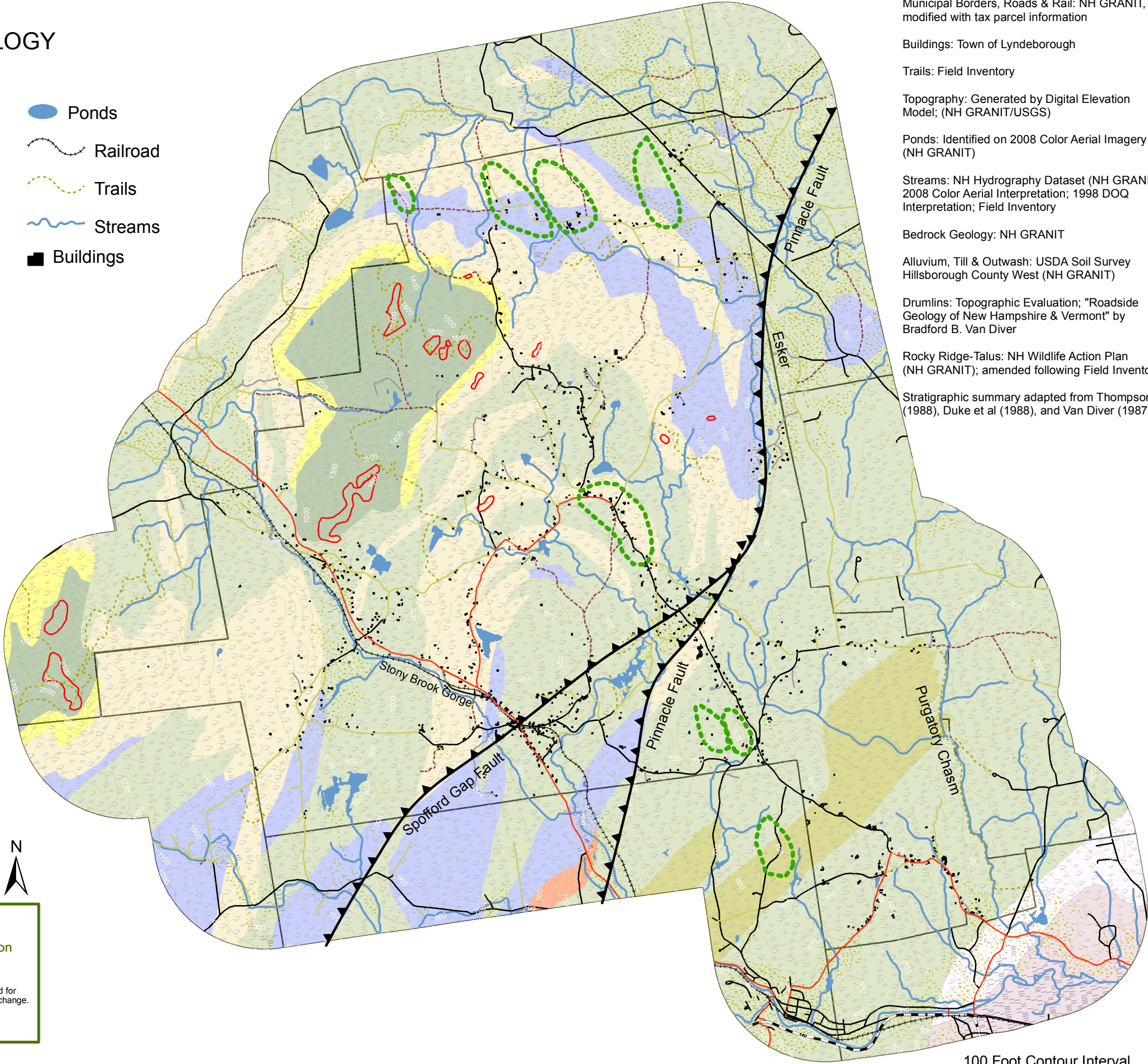
STRATIGRAPHIC COLUMN IN LYNDEBOROUGH & ASSOCIATED GEOLOGIC ACTIVITY			
Period	Millions of years ago	Rocks Formed	Activity
Quaternary	1	Surficial Features	Glaciation
Tertiary	65		
Cretaceous	136		
Jurassic	190		Uplift & Erosion
Triassic	225		
Permian	280	Milford Granites	
Carboniferous	345		
Devonian	395	Spaulding Tonalite Littleton Formation	Acadian Orogeny
Silurian	430	Smalls Falls Formation Perry Mountain Formation Rangeley Formation	Taconic Orogeny
Ordovician	500	} Massabesic Gneiss	
Cambrian	570		
Pre-Cambrian	4,600		



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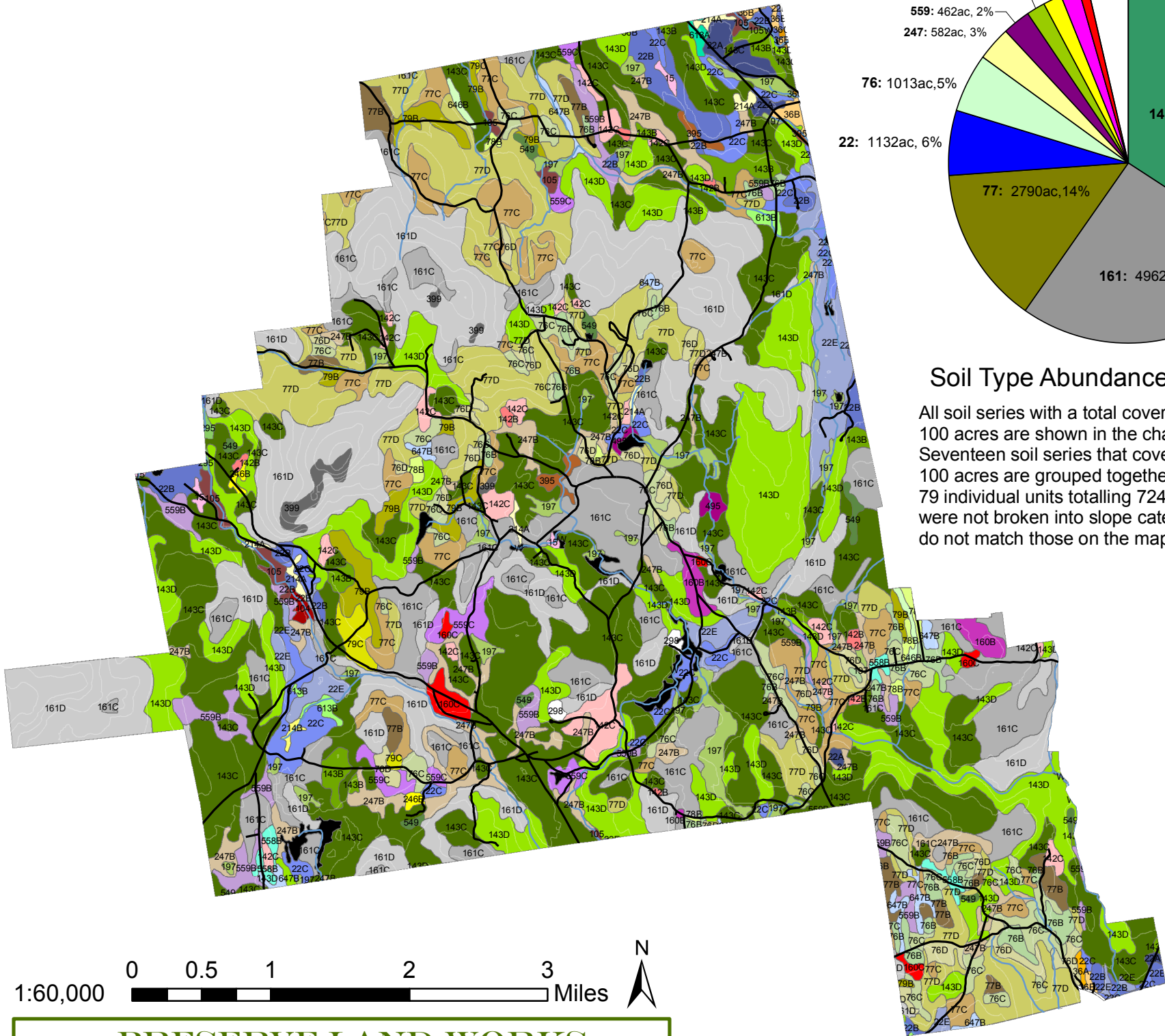
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LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - SOILS



Soil Type Abundance by Series

All soil series with a total coverage of more than 100 acres are shown in the chart above. Seventeen soil series that cover fewer than 100 acres are grouped together, representing 79 individual units totalling 724 acres. Series were not broken into slope categories so colors do not match those on the map.

USDA Soil Survey - Hillsborough County West

- 143C Monadnock stony fine sandy loam (8-15% slopes)
- 143B Monadnock stony fine sandy loam (3-8% slopes)
- 143D Monadnock stony fine sandy loam (15-35% slopes)
- 161C Lyman-Turnbridge-rock outcrop complex (3-15% slopes)
- 161D Lyman-Turnbridge-rock outcrop complex (15-35% slopes)
- 77B Marlow stony loam (3-8% slopes)
- 77C Marlow stony loam (8-15% slopes)
- 77D Marlow stony loam (15-35% slopes)
- 22A Colton loamy sand (0-3% slopes)
- 22B Colton loamy sand (3-8% slopes)
- 22C Colton loamy sand (8-15% slopes)
- 22E Colton loamy sand (15-50% slopes)
- 76B Marlow loam (3-8% slopes)
- 76C Marlow loam (8-15% slopes)
- 76D Marlow loam (15-25% slopes)
- 247B Lyme stony loam (0-5% slopes)
- 559B Skerry stony fine sandy loam (0-8% slopes)
- 559C Skerry stony fine sandy loam (8-15% slopes)
- 79C Peru stony loam (8-15% slopes)
- 79B Peru stony loam (3-8% slopes)
- 142C Monadnock fine sandy loam (8-15% slopes)
- 142B Monadnock fine sandy loam (3-8% slopes)
- 160B Turnbridge-Lyman-Monadnock Complex, stony (3-8% slopes)
- 160C Turnbridge-Lyman-Monadnock Complex, stony (8-15% slopes)
- 104 Poduck fine sandy loam
- 105 Rumney loam
- 214A Naumberg fine sandy loam (0-3% slopes)
- 214B Naumberg fine sandy loam (3-8% slopes)
- 246B Lyme loam (0-5% slopes)
- 36A Adams loamy sand (0-3% slopes)
- 36B Adams loamy sand (3-8% slopes)
- 36C Adams loamy sand (8-15% slopes)
- 558B Skerry fine sandy loam (3-8% slopes)
- 613A Croghan loamy fine sand (0-3% slopes)
- 613B Croghan loamy fine sand (3-8% slopes)
- 646B Pillsbury loam (0-5% slopes)
- 647B Pillsbury stony loam (0-5% slopes)
- 78B Peru loam (3-8% slopes)
- 399 Rock outcrop
- 298 Gravel pit
- 549 Peacham stony muck
- 295 Greenwood mucky peat
- 197 Ponded Borochemists
- 395 Chocurua mucky peat
- 495 Ossipee peat
- 15 Searsport muck
- W Water



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A buffer was not used because numerous soil units exist in the low country surrounding Lyndeborough that have little consequence for this NRI and soils east of Lyndeborough are classified in a completely different system and have no correlation to Lyndeborough.

Roads Streams 100 Foot Contours



LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - LAND COVER & VEGETATION

- Lyndeborough
- Ponds
- Rivers & Streams
- NWI Wetlands (All Types)
- Black gum swamp
- Fern leaved false foxglove

Land Cover Types

- Developed
- Mixed Forest
- Transportation
- Alpine (Krumholz)
- Row Crops
- Open Water
- Hay/Pasture
- Forested Wetland
- Orchards
- Open Wetland
- Beech/Oak
- Tidal Wetland
- Paper Birch/Aspen
- Disturbed Land
- Other Hardwoods
- Bedrock/Vegetated
- White/Red Pine
- Sand Dunes
- Spruce/Fir
- Other Cleared
- Hemlock
- Tundra
- Pitch Pine

Wildlife Action Plan Cover Type Overlays

- Hemlock-Hardwood-Pine
- Lowland Spruce-Fir
- Northern Hardwood-Conifer
- Rocky Ridge-Talus
- Appalachian Oak-Pine
- Floodplains



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Data Sources  
Municipal Borders: NH GRANIT, modified with tax parcel information

Ponds: Identified on 2008 Color Aerial Imagery (NH GRANIT)

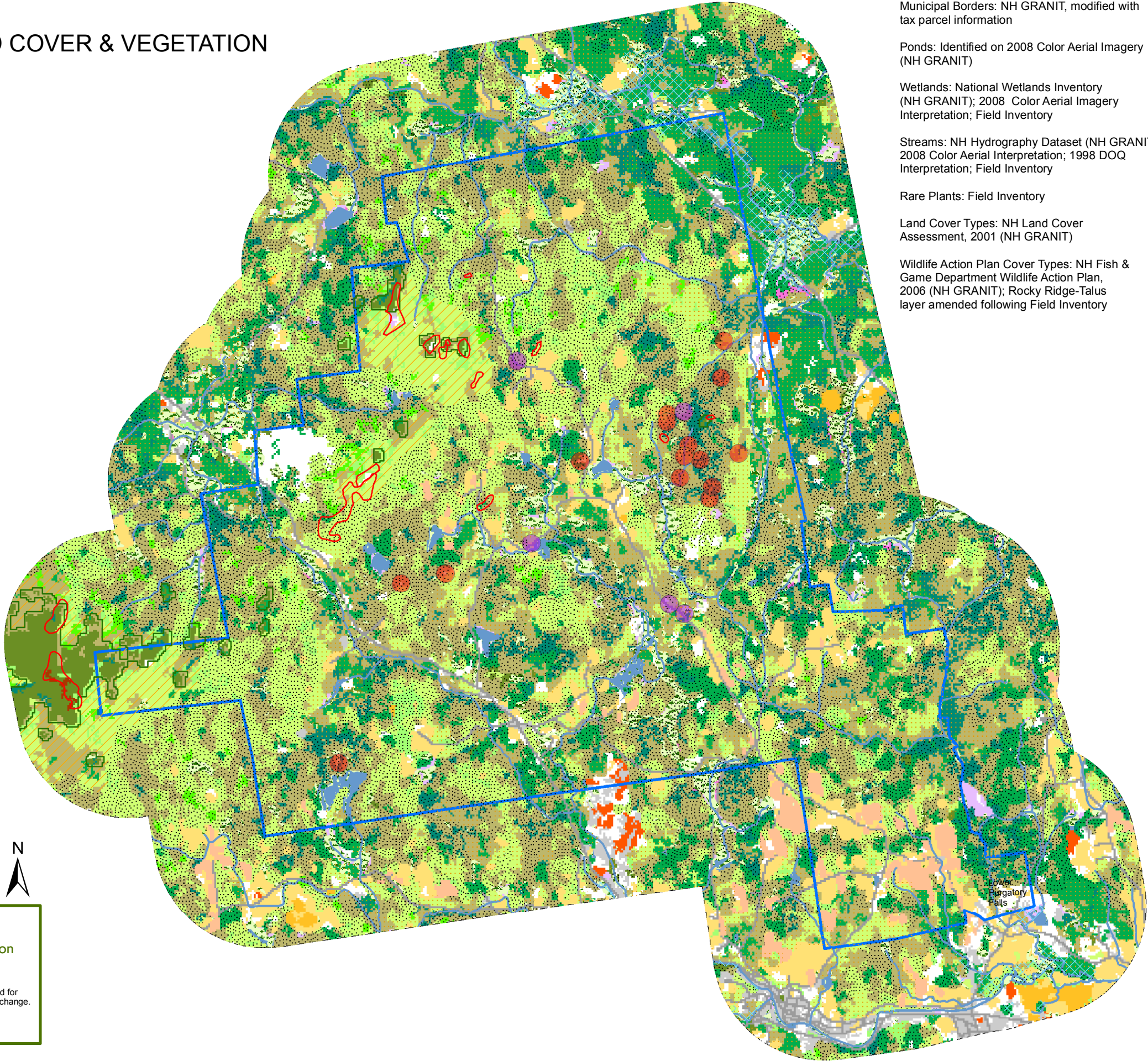
Wetlands: National Wetlands Inventory (NH GRANIT); 2008 Color Aerial Imagery Interpretation; Field Inventory

Streams: NH Hydrography Dataset (NH GRANIT); 2008 Color Aerial Interpretation; 1998 DOQ Interpretation; Field Inventory

Rare Plants: Field Inventory

Land Cover Types: NH Land Cover Assessment, 2001 (NH GRANIT)

Wildlife Action Plan Cover Types: NH Fish & Game Department Wildlife Action Plan, 2006 (NH GRANIT); Rocky Ridge-Talus layer amended following Field Inventory





LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - WETLANDS & WATER RESOURCES

Wetlands

- Streams
- Ponds
- Emergent Marshes
- Shrub Swamps
- Swampy Forests
- Unconsolidated Bottom
- Unclassified Wetlands
- NRCS Hydric Soil

Water Resource Features

- Watershed Boundary
- Beaver Dam
- Dams & Impoundments
- Black Gum Swamp
- Vernal Pool
- Public Water Supply
- Conservation Lands
- 100 Foot Contour
- Buildings

Transportation Network

- State Maintained Primary
- State Maintained Secondary
- Town Maintained Paved
- Town Maintained Dirt
- Unmaintained Dirt
- Private Road
- Railroad
- Trails

Data Sources  
Municipal Borders, Roads & Rail: NH GRANIT, modified with tax parcel information (Town of Lyndeborough)

Ponds: Identified on 2008 Color Aerial Imagery (NH GRANIT)

Wetlands: National Wetlands Inventory (NH GRANIT); 2008 Color Aerial Imagery Interpretation (NH GRANIT); Field Inventory

Hydric Soils: Natural Resource Conservation Service Hillsborough County Soil Survey (NH GRANIT)

Watersheds: Hydrologic Unit Code (HUC) level 12 (NH GRANIT)

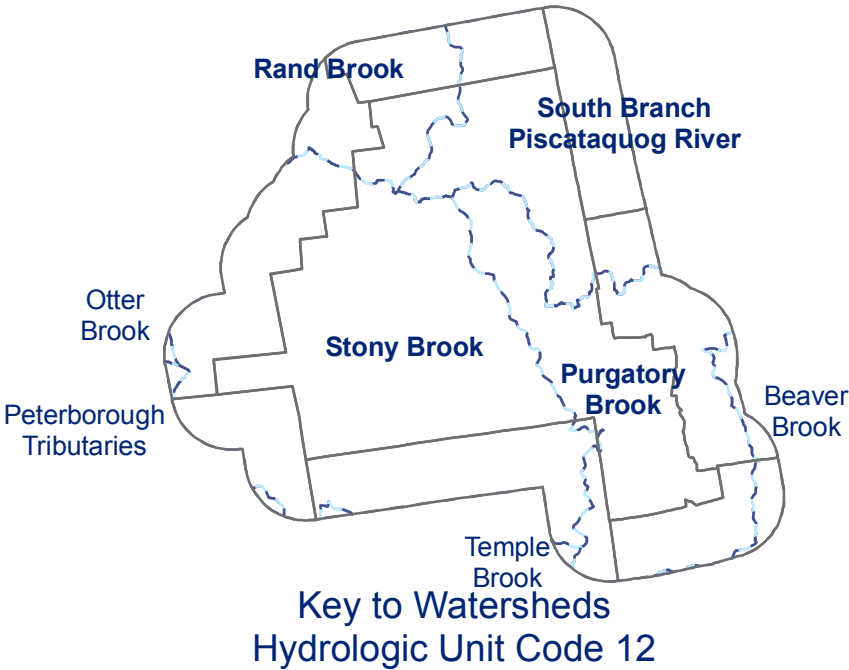
Streams: NH Hydrography Dataset (NH GRANIT); 2008 Color Aerial Interpretation; 1998 DOQ Interpretation (NH GRANIT); Field Inventory

Rare Plants, Beaver Dams, Vernal Pools & Trails: Field Inventory

Public water Supplies & Impoundments: NH Department of Environmental Services

Topography & Shaded Relief: Generated from Digital Elevation Models (NH GRANIT/USGS)

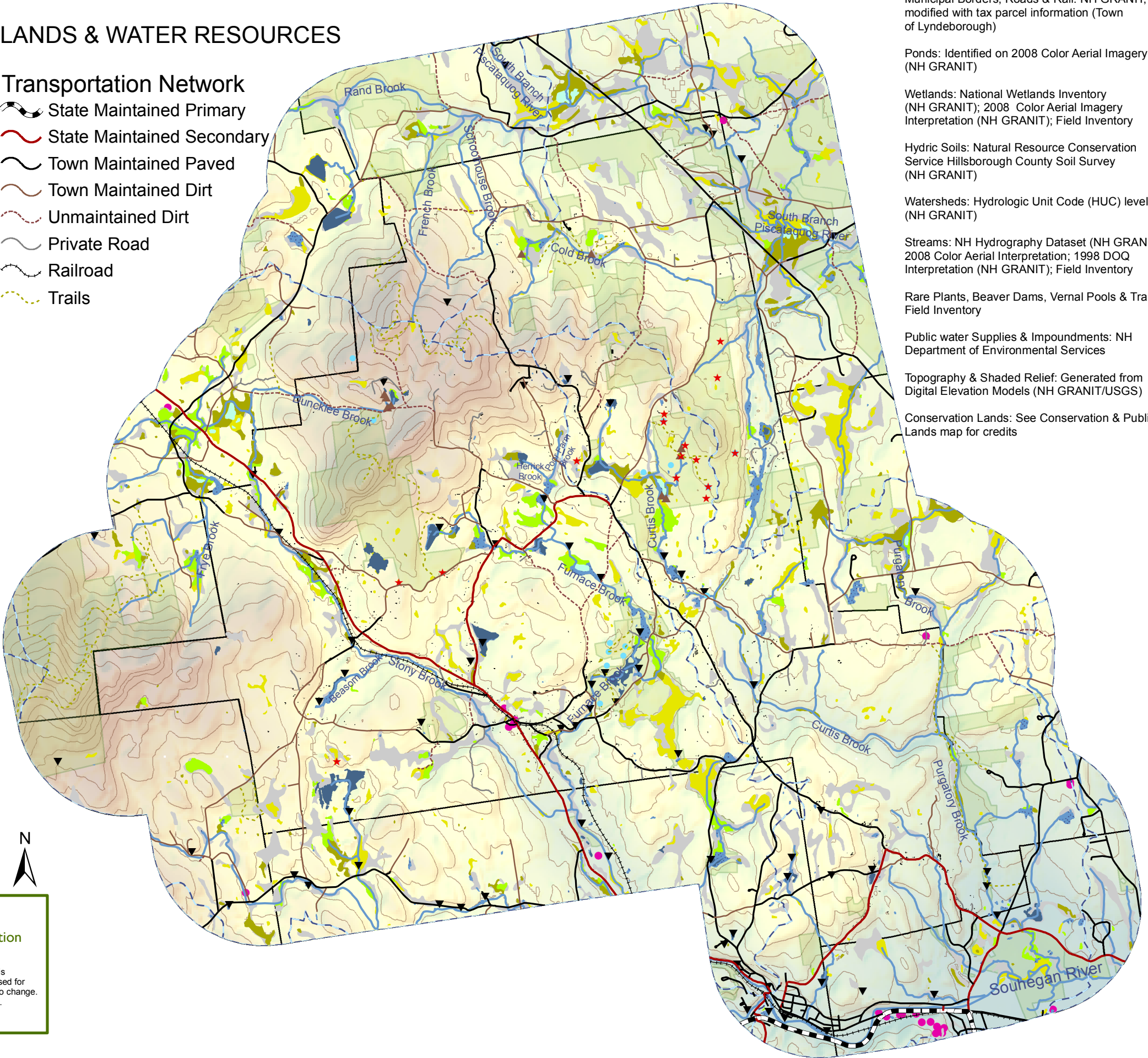
Conservation Lands: See Conservation & Public Lands map for credits



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LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - IMPORTANT ECOLOGICAL FEATURES

Land Cover Types

- Farm & Open Lands
- Hardwood Forests
- Conifer Forests
- Mixed Forests

- 100 Foot Contours
- Conservation Lands
- Buildings
- Lyndeborough

Ecological Features

- Black Gum Swamp (+ 500 foot buffer)
- Fern-leaved false foxglove population (+ 500 foot buffer)
- Natural Heritage Record (+ 1/2 mile buffer)
- Rocky Ridge-Talus
- Beaver Dams
- Vernal Pools
- Ponds
- Unfragmented Forest Blocks
- NWI Wetlands (All Types)

Roads

- State Maintained Primary
- State Maintained Secondary
- Town Maintained Paved
- Town Maintained Dirt
- Town Unmaintained
- Private

NH NATURAL HERITAGE BUREAU DATA

This map illustrates the general locations of rare plants, wildlife, and natural communities (natural communities are different types of wetlands, forests, etc.). Precise locations are not shown due to the data's sensitive nature. The NH Natural Heritage Bureau's database contains more detailed information including locations, population sizes, and habitat descriptions.

Please contact the Natural Heritage Bureau at (603) 271-2214 for more information. Wildlife occurrences are compiled and displayed in cooperation with the NH Fish & Game Department's Nongame Program, who may be reached at (603) 271-2462.

RARE PLANT(S), WILDLIFE, AND/OR NATURAL COMMUNITY:

Precise location within circle known.  
Contact the Natural Heritage Bureau for additional information.



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Data Sources  
Municipal Borders & Roads: NH GRANIT,  
modified with tax parcel information

Ponds: Identified on 2008 Color Aerial Imagery  
(NH GRANIT)

Wetlands: National Wetlands Inventory  
(NH GRANIT); 2008 Color Aerial Imagery  
Interpretation; Field Inventory

Streams: NH Hydrography Dataset (NH GRANIT);  
2008 Color Aerial Interpretation; 1998 DOQ  
Interpretation; Field Inventory

Rare Plants & Communities, Vernal Pools,  
and Beaver Dams: Field Inventory

Land Cover Types: NH Land Cover  
Assessment, 2001 (NH GRANIT)

Rocky Ridge-Talus: Wildlife Action Plan  
layer amended following Field Inventory

Buildings: Town of Lyndeborough

Unfragmented Forest Blocks: NH GRANIT data  
amended with 2008 Color Aerial Imagery and  
Buildings Layer



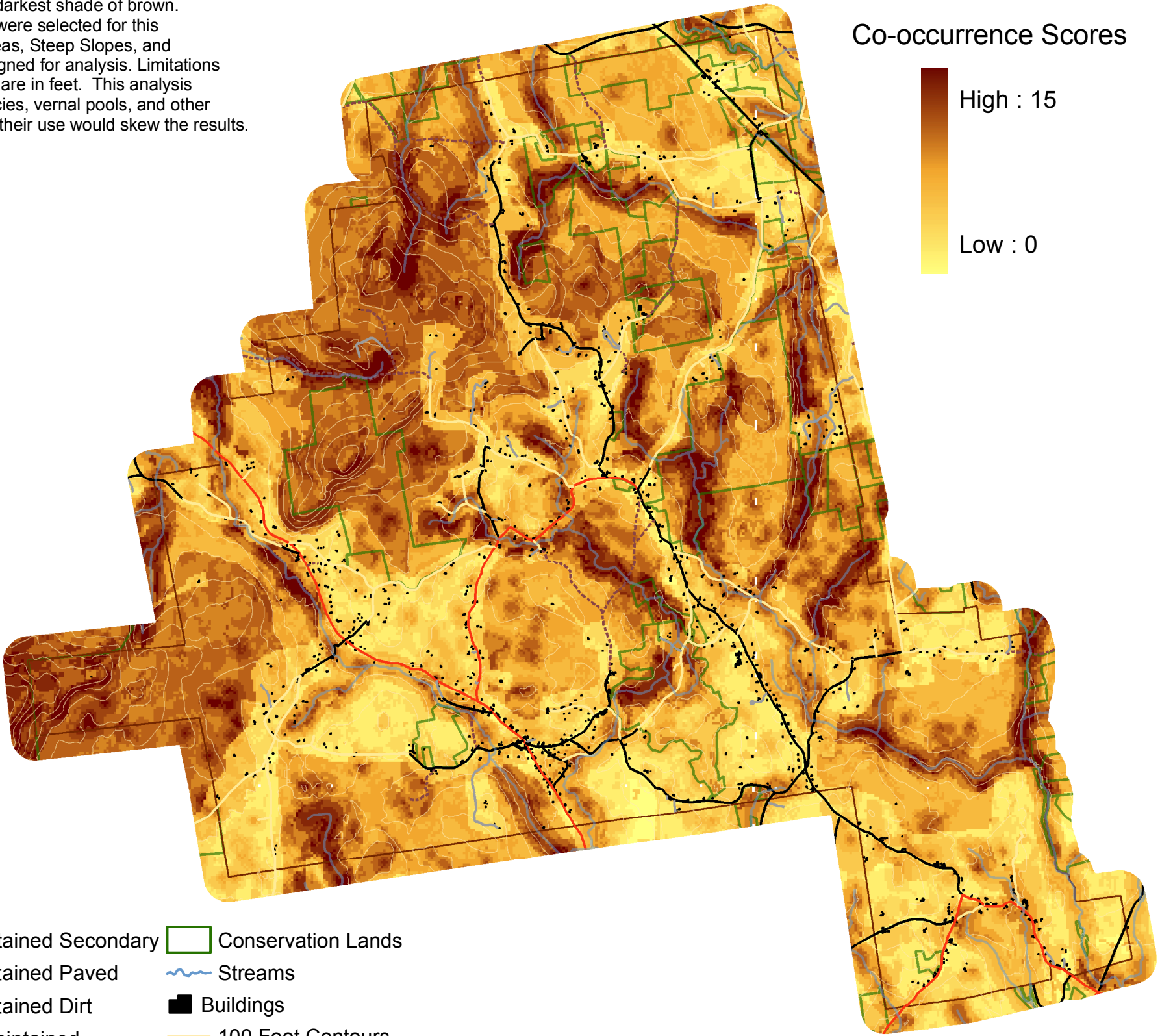


# LYNDEBOROUGH, NEW HAMPSHIRE

## NATURAL RESOURCES INVENTORY - HIGHEST QUALITY HABITAT CO-OCCURRENCE

Co-occurrence analysis is the process of identifying areas where several different qualities are present. It is a method for visualizing areas that have a 'higher' relative value than others based on assigned occurrences of valuable features. In this analysis, areas that provide the highest quality wildlife habitat are those with the most co-occurring values; areas of the darkest shade of brown. The lightest shades of tan are areas that provide the least high quality habitat. The following attributes were selected for this analysis: Proximity to Streams, Proximity to Wetlands, Unfragmented Forest Blocks, High Elevation Areas, Steep Slopes, and Selected Land Cover Types. The table below explains why each was chosen, and the value it was assigned for analysis. Limitations in the data did not allow for inclusion of the full 1 mile buffer so a buffer of 1000' is shown. All distances are in feet. This analysis considers data that is available for the entire town, and does not take into account locations of rare species, vernal pools, and other rare natural communities. These data were not included because they only represent known locations; their use would skew the results.

QUALITY	RANGE (in feet)	VALUE	RATIONALE
Riparian Corridors: Distance from Stream	0-250	3	Floodplains, beaver activity, and high moisture and humidity support floristic diversity. Continuous systems provide movement corridors. Coldwater fish require shaded streams.
	251-500	2	
	501+	0	
Wetland Ecotones: Distance from Wetlands	0-100	3	The most floristically rich and biologically diverse ecosystems in Lyndeborough. Moisture gradients support diverse complexes of natural communities. High structural diversity & spatial heterogeneity.
	101-250	2	
	251-500	1	
	>500	0	
Steep Slopes	0-25%	0	The steepest slopes in Lyndeborough support areas of old forest with complex habitat structure, exposed ledges and talus fields, springs and seeps, and unique very dry habitats.
	26-35%	2	
	36-100%	3	
High-Elevation Habitats	<1000	0	Abandoned berry fields have grown into dry shrublands, one of the most endangered habitat types in NH. Important for migrating raptors; patches of spruce forest; open ledges provide potential bobcat sunning areas.
	1001-1500	2	
	>1500	3	
Land Cover	Pasture	3	Grasslands provide habitat for more than 150 species
	Orchards	3	Flowers and fruits valued by insects, birds & mammals
	Row Crops	2	Flowers and fruits valued by insects, birds & mammals
	Mixed Forest	1	Broad mixture of many forest types provides matrix habitat
	Red-White Pine	1	Important for generalist species
	Mixed Hardwoods	1	Early spring flowers support insects & birds; shrubs common
	Hemlock Forest	2	Winter cover for deer
	Beech-Oak Forest	2	Highest hard-mast production of our local forests
	Paper Birch-Aspen	2	Very important young forest type with high seed production
	Spruce-Fir	3	Highly valued by uncommon birds & mammals
Unfragmented Forest Blocks	All Blocks	3	Provides habitat for large mammals, carnivores, secretive species, and species with low reproductive rates or high sensitivity to human activity.
	TOTAL POSSIBLE SUM	18	



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- Roads

  - State Maintained Secondary
  - Town Maintained Paved
  - Town Maintained Dirt
  - Town Unmaintained
  - Private
- Conservation Lands

  - Streams
  - Buildings
  - 100 Foot Contours



LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY - CONSERVATION & PUBLIC LANDS

Protected Lands

- Fee Ownership
- Conservation Easement
- Flowage Easement
- Deed Restriction
- Agricultural Easement
- Unknown Status
- TreeFarms

Natural Features

- Ponds
- Streams
- NWI Wetlands (All Types)
- Vernal Pool
- Fern Leaved False Foxglove
- Black Gum Swamp
- 100 Foot Contours

Infrastructure

- State Maintained Primary
- State Maintained Secondary
- Town Maintained Paved
- Town Maintained Dirt
- Town Unmaintained
- Private
- Railroad
- Trails
- Trailheads
- Buildings

Note on Tree Farms: Private lands enrolled in the American Tree Farm System (ATFS) are not necessarily considered 'protected' or 'conserved' but they may provide a higher level of protection for habitat, water quality, recreation, and other natural resource values than other land. While enrolled in the ATFS, Tree Farms are managed to provide Wood, Water, Wildlife, and Passive Recreation, but they can be withdrawn at any time for any reason. Tree Farms shown here are those not protected by higher legal mechanism such as a Conservation Easement or Fee Ownership. Other conservation lands in Lyndeborough are also Tree Farms, such as some Forest Society and New England Forestry Foundation Fee Ownership lands.



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Data Sources  
Municipal Borders, Roads & Rail: NH GRANIT, modified with tax parcel information (Town of Lyndeborough)

Ponds: Identified on 2008 Color Aerial Imagery (NH GRANIT)

Wetlands: National Wetlands Inventory (NH GRANIT); 2008 Color Aerial Imagery Interpretation; Field Inventory

Streams: NH Hydrography Dataset (NH GRANIT); 2008 Color Aerial Interpretation; 1998 DOQ Interpretation (NH GRANIT); Field Inventory

Rare Plants, Vernal Pools, Trails & Trailheads: Field Inventory

Conservation Land: NH GRANIT; Monadnock Conservancy; Piscataquog Land Conservancy; Tax Maps; Hillsborough County Registry of Deeds; Landowner Communication; Field Inventory; Nashua Regional Planning Commission

Tree Farms: Landowner Communication

- Key to Trailheads
- | No. | Trail                 |
|-----|-----------------------|
| 1   | Senters Falls         |
| 2   | Forest Society Lands  |
| 3   | Teds Trail            |
| 4   | Helens Trail          |
| 5   | Curtis Dogwood Park   |
| 6   | Lower Purgatory Falls |
| 7   | Purgatory Falls       |
| 8   | Temple Town Forest    |



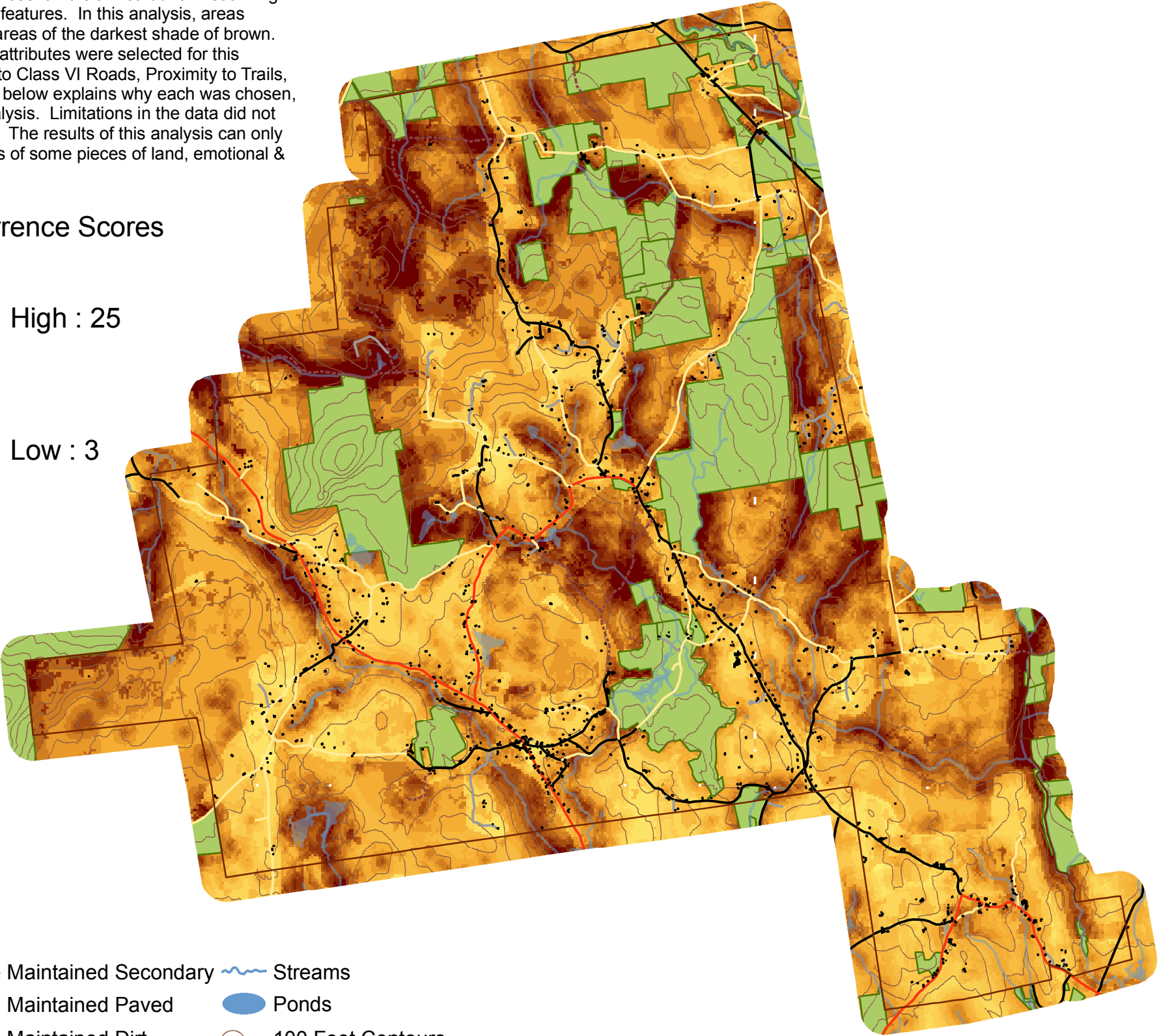
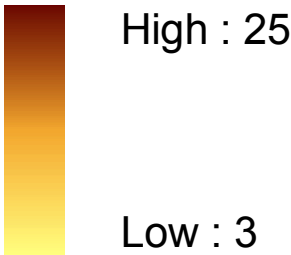
# LYNDEBOROUGH, NEW HAMPSHIRE

## NATURAL RESOURCES INVENTORY - CONSERVATION PRIORITIES CO-OCCURRENCE

Co-occurrence analysis is the process of identifying areas where several different qualities are present. It is a method for visualizing areas that have a 'higher' relative value than others based on assigned occurrences of valuable features. In this analysis, areas of a higher priority for enhanced land conservation are those with the most co-occurring values; areas of the darkest shade of brown. The lightest shades of tan are areas that are of low priority for land conservation. The following attributes were selected for this analysis: Proximity to Conserved Land, Proximity to Streams, Proximity to Wetlands, Proximity to Class VI Roads, Proximity to Trails, Unfragmented Forest Blocks, High Elevation Areas, and Selected Land Cover Types. The table below explains why each was chosen, and the value it was assigned for analysis. Land currently protected was excluded from this analysis. Limitations in the data did not allow for inclusion of the full 1 mile buffer so a buffer of 1000' is shown. All distances are in feet. The results of this analysis can only suggest priorities based on the available data, and cannot take into consideration intrinsic values of some pieces of land, emotional & cultural connections, and other values that can not be quantified.

QUALITY	RANGE (in feet)	VALUE	RATIONALE
Proximity to Streams	0-250	5	Streams and their proximal settings provide riparian habitats, wildlife movement corridors, flood mitigation, water quality protection, recreational opportunities, and landscape & biological diversity.
	251-500	4	
	501-750	3	
	751-1000	2	
	>1000	1	
Proximity to Wetlands	0-100	3	Wetlands are the most floristically rich and biologically diverse ecosystems in Lyndeborough. They provide flood storage, water filtration, exceptional wildlife habitat, recreation opportunities, and contiguous wildlife corridors.
	101-250	2	
	251-500	1	
	>500	0	
Proximity to Conservation Areas	0-500	5	Expanding on existing conserved land has increased habitat and natural resource protection value versus protecting isolated fragments of land.
	500-2640	4	
	2641-5280	3	
	5280-7940	2	
	>7940	1	
Elevation	<250	0	The people of Lyndeborough strongly spoke in favor of protecting the mountains in the 2001 Community Profile. Unique shrub habitats & steep slopes of high elevation areas provide high quality and uncommon wildlife habitat. Trails and roads through these areas are popular recreational assets.
	250-500	1	
	501-1000	2	
	1001-1500	3	
	>1500	4	
Land Cover	Pasture	3	Grasslands provide important habitat & agricultural use
	Orchards	2	
	Row Crops	2	
	Mixed Forest	1	Land Cover values are based on percent coverage for each class. More widespread cover types received lower values; less common cover types received higher values
	Beech-Oak	1	
	Pine Forest	2	
	Hemlock Forest	2	
	Mixed Hardwoods	3	
	Paper Birch-Aspen	4	
	Spruce-Fir	4	
Unfragmented Forest Blocks	All Blocks	3	Large blocks of forest unfragmented by permanent homes, roads, or areas of high intensity human use provide habitat for wide ranging mammals and sensitive species, as well as protect watersheds, maintain scenic views, and minimize the spread of invasive species.
Proximity to Trails	0-250	3	Recreational trail availability is an important asset of Lyndeborough that was highly regarded in the Community Profile.
	251-500	2	
	>500	0	
Proximity to Class VI Roads	0-250	3	Class VI roads provide important recreational opportunities, and provide access for forestry, hunting, and fire fighting.
	251-500	2	
	>500	0	
	TOTAL POSSIBLE SUM	30	

### Co-occurrence Scores



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- #### Roads

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  - Town Maintained Paved
  - Town Maintained Dirt
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  - Private
- Streams
  - Ponds
  - 100 Foot Contours
  - Conservation Lands
  - Buildings



LYNDEBOROUGH, NEW HAMPSHIRE  
NATURAL RESOURCES INVENTORY  
IMPORTANT AGRICULTURAL LANDS CO-OCCURRENCE

Co-occurrence analysis is the process of identifying areas where several different qualities are present. It is a method for visualizing areas that have a 'higher' relative value than others based on assigned occurrences of valuable features. In this analysis, areas with high agricultural value are those with the most co-occurring values; areas of the darkest shade of brown. The lightest shades of tan are areas that have little value for agricultural production, either current or future. The following attributes were selected for this analysis: NRCS Soil Types that are determined to be productive for farming, areas with appropriate aspect to receive high amounts of direct sunlight, areas with low slopes where farming is possible, and currently farmed areas including orchards, pastures, and row crops. The table below provides details on the qualities chosen for analysis and the range of values given to them. A substantial portion of ranked area (nearly 275 acres in Lyndeborough) is classified by the U.S. Fish & Wildlife Service as wetland. Because those areas are not suitable for most forms of farming they are overlaid by green. Ponds and streams are similarly shown to exclude them from consideration as valuable agricultural land.

ATTRIBUTE	RANGE	VALUE
Natural Resource Conservation Service Soil Types	Not Prime Farmland	0
	Farmland of Local Importance	1
	Farmland of Statewide Importance	2
	Prime Farm Soils	2
Aspect	Northwest, North, Northeast	0
	West, East	1
	Flat, Southwest, South, Southeast	2
Farmable Slopes	0-3%	2
	3-8%	1
	8-100%	0
2001 Land Cover	Pasture	2
	Orchards	2
	Row Crops	2
	All others	0
	TOTAL POSSIBLE SUM	8

Roads

- State Maintained Secondary

Town Maintained Paved

Town Maintained Dirt

Town Unmaintained

Private
- Conservation Lands

NWI Wetlands

Streams

Ponds

Lyndeborough

Buildings



PRESERVE LAND WORKS

Conservation Science -- Ecological Forestry -- Environmental Education  
www.preservelandworks.com 52 Kimball Rd, Hancock, NH

Map produced January 2009 for Town of Lyndeborough Conservation Commission by Joseph M. Trudeau as part of this Natural Resources Inventory. Data is accurate up to 1:24,000 scale. This map and others in this report are not to be used for navigation or take the place of a survey. All locations are approximate as of the date of preparation and are subject to change. The author assumes no responsibility for user error or injury. Projection: North American Datum 1983, NH State Plane.

Co-occurrence Scores

