

Town of Gilmanton New Hampshire



DATA SOURCES

NOI GRANIT Data
 Most of the data displayed here represents vector data which was obtained in 2002 from the NOI GRANIT database as maintained by the Connecticut State Research Center (CSRC) at the University of New Hampshire (UNH). The New Hampshire Geographic Information System and Information Transfer System (NHGIS) is a cooperative project to create, maintain, and make available a statewide geographic data base serving the information needs of state, regional, and local decision-makers. A collaborative effort between the University of New Hampshire and the US Office of Data Planning (ODP), the NOI GRANIT System is based on the 1991 features for the Study of Public Choice, and Survey in Duffield. The GRANIT approach is a statewide GIS approach that incorporates efforts of a host of agencies, collaborating on various elements of database design and construction as well as application development.

NOI GRANIT and CSRC maintain a continuing program to identify and correct errors in their data. CSRC, ODP, and the participating agencies and organizations make no claims as to the reliability or warranty of any data used in this study.

- Other Data**
- Conservation Lands (2005): Includes most GRANIT data as well as more recent parcels digitized by The Forest Service and Lake Region Planning Commission from various sources including town maps.
 - Roads derived from NOI DCF road base (3/2001) and UNH digitized line graphs with assigned connections and updates as identified by Town of Gilmanton as digitized by 2005.
 - Streams digitized from most GRANIT stream base (1990) with assigned connections and updates as identified by Town of Gilmanton.
 - Contours, Slopes > 20%, and South Slopes > 10% derived by Forest Service from USGS National Elevation Data (1990) (10-meters and more).
 - Watershed Boundaries (2002): 100' buffer on perennial streams and all surface water bodies (1:12,000 scale USGS digital line graph data) combined with adjacent 100' perimeter wetland polygons. Overlaid areas, as defined by 2001 NOI Land Cover data, were removed.
 - Wetland Channels derived by NOI Fish & Game Dept. Represents channels of 7' or more width less than 1 acre in size within 1 km of each other and occurring in the same block of unfragmented land.
 - Stream Wetlands derived by NOI Fish & Game. Represents subacute stream wetlands selected from the National Wetlands Inventory data.
 - Agricultural & Other Open Lands derived by NOI Fish & Game from NOI Landcover 2001 with sub-classes & some additions by Forest Service through interpretation of USGS 1:250,000 aerial DNCR.
 - Conservation Land Buffers (Inventory History) 1,000' and 2,000' buffers to Conservation Lands derived by Forest Service.
 - Large Contiguous Wetlands > 2 Acres derived by NOI Fish & Game from a dissolved composite of Wetlands Inventory data.
 - Clear Yards digitized by Forest Service. Base point map, digitized by NOI Fish & Game 9/10/01.
 - Production Lands from Natural Resources Conservation Service, Montpelier, (February 2005).

Map Description
 This map was produced for the Gilmanton Conservation Commission and is intended to be used for planning purposes only. Representations of property lines on this map are an approximation of available information and should not be used for recording or construction purposes without verification.

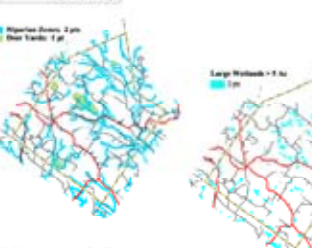
NATURAL RESOURCE CO-OCCURRENCE ANALYSIS

High-value natural resource areas can best be identified by creating a resource co-occurrence map. This is typically the final stage in a GIS-based natural resource inventory (NRI) and is developed by overlaying the individual resource layers in the GIS to identify features whose multiple occurrences of those resources exist.

Co-occurrence as displayed on this map with a gradient color map where the darker the color represents a higher value.

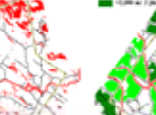
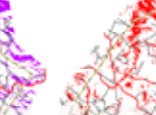
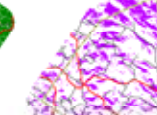
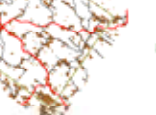
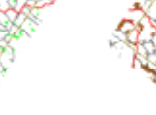
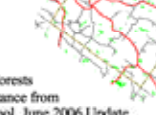
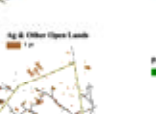
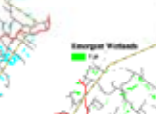
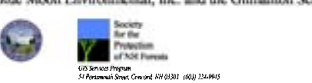
The co-occurrence model for the Town of Gilmanton's NRI included 16 natural resource factors as well as a proximity to conservation lands factor. Each factor was assigned a value of 1-5 points. Refer to the small text map along the edge of the map to see the spatial extent and point values of each natural resource factor. Total co-occurrence values displayed in the orange color map on the main map represent the sum of the values behind the overlapping factors that exist at a given location.

- Gilmanton's co-occurrence model included the following resource factors and values:
- Wetland Channels: 2 pts
 - Stream Wetlands: 2 pts
 - Conservation Lands: 2 pts
 - Streams: 1 pt
 - Contours: 1 pt
 - Large Wetlands: 1 pt
 - Emergent Wetlands: 1 pt
 - Ag & Other Open Lands: 1 pt
 - South Slopes > 10%: 1 pt
 - Steep Slopes > 20%: 1 pt
 - Proximity to Conservation Lands: 1 pt
 - Drinking Water Resources: 1 pt
 - Production Forest Lands: 1 pt
 - Predefined Forest Sinks: 1 pt
 - Predefined Ag Sinks: 1 pt
 - Predefined Wetland Sinks: 1 pt



Natural Resource Co-occurrence

Gilmanton Natural Resources Inventory
 Map prepared by the Society for the Protection of NH Forests for the Gilmanton Conservation Commission with assistance from Blue Moon Environmental, Inc. and the Gilmanton School, June 2006 Update.



KEY

Point Features

- County
- Church
- Village/Settlement
- Camp

Political Boundaries

- Neighboring Town Lines
- Gilmanton Town Line
- Conservation Lands

Roads

- Major State Road
- Local Road
- Other Roads (Less Than 1/2 Mile)
- Trail

Hydrology

- Wetland Boundaries (2002) 1:5
- Streams
- Streambed Interiors
- Wetland (2000 and 1980s)
- All Surface Waters

Elevation

- Number of Ridges
- Contour Lines - 100' Interval
- Contour Lines - 40' Interval

Natural Resource Co-occurrence Value

0 - 15
 0.1 - 0.2 points Gilmanton Town-wide Average

ACKNOWLEDGEMENT
 This updated 2006 map is one of a series of maps that were produced in early 2005 as part of a comprehensive natural resources inventory for the Town of Gilmanton. The project was a joint effort of the Gilmanton Conservation Commission and the Society for the Protection of NH Forests. Financial assistance was provided by Blue Moon Environmental, Inc. and Gilmanton School. We are grateful for the expertise and time of those involved and hope that the natural resources inventory may serve as a valuable planning tool to support of local growth and land conservation in Gilmanton.

GILMANTON STATISTICS
 The table below lists the total acreage for each natural resource co-occurrence value.

Definitions:
 [Total Area] = Average of points in Gilmanton
 [% Total] = % of town represented by that value
 [Prevalent] = Average within conservation land
 [% Prevalent] = % of total that lies within conservation land

Town-wide, the average co-occurrence value is 5.5. "High Value" areas are the second to last six areas with above average values (7-15). This represents 47.7% of Gilmanton's area.

Natural Resource Co-occurrence	Co-occurrence Value	Total Area (Acres)	% Total	Prevalent	% Prevalent
1	1,070.9	1.7	0.03	0.0	0.0
2	6,205.7	11.2	0.20	0.0	0.0
3	7,201.0	13.0	0.24	0.0	0.0
4	4,464.4	8.1	0.15	0.0	0.0
5	1,066.5	1.9	0.04	0.0	0.0
6	1,077.8	1.9	0.04	0.0	0.0
7	5,261.5	9.6	0.10	0.0	0.0
8	964.4	1.7	0.03	0.0	0.0
9	111.9	0.2	0.00	0.0	0.0
10	141.9	0.3	0.00	0.0	0.0
11	12.9	0.0	0.00	0.0	0.0
12	1.4	0.0	0.00	0.0	0.0
13	14,363.3	26.1	0.47	0.0	0.0
14	18,128.0	33.0	0.33	0.0	0.0
15	4,297.2	7.9	0.08	0.0	0.0

Note: All values are USGS-derived and are approximate. Dimensional values are rounded to 0.1 feet.