

Town of Chichester

New Hampshire

KEY

Political Boundaries

- Neighboring Town Lines
- Chichester Town Line

Unfragmented Blocks by Acreage

- 100 - 1,000 acres
- 1,000 - 2,000
- > 2,000

Conservation & Public Lands *

- Conservation lands - town-owned
- Conservation easements - private
- Conservation lands - other towns
- Town buildings / facilities
- Town open space
- Town forest

Roads

- 1,393
- Principal Arterials
- Collectors
- Local Roads
- Other/Class VI Roads
- Trails
- Utility Lines

Hydrography

- Perennial
- Seasonal
- Lakes / Ponds / Rivers
- Wetlands (NWI / USGS)

Topography

- Contours (20' interval)

Other Features

- Village, settlement
- Summit
- Fairgrounds
- Campground
- Cemetery
- Gravel pit - active / inactive
- Natural feature
- School

* Conservation & Public Lands:
Only the conservation lands displayed in shades of green x-hatch have permanent protection from development.

DATA SOURCES

NH GRANIT Data



Most of the data displayed here represents stock data sets obtained in 2001 from the NH GRANIT database as maintained by the Complex Systems Research Center (CSRC) at the University of New Hampshire (UNH).

The New Hampshire Geographically Referenced Analysis and Information Transfer System (NH GRANIT) 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 NH Office of State Planning (OSP), the core GRANIT System is housed at the UNH Institute for the Study of Earth, Oceans, and Space in Durham. The GRANIT approach to a state-wide GIS depends upon the cooperative efforts of a host of agencies, collaborating on various elements of database design and construction as well as application development.

NH GRANIT and CSRC maintain a continuing program to identify and correct errors in these data. CSRC, OSP, SPNH and the cooperating agencies and organizations make no claims as to the validity or reliability or to any implied uses of these data.

Other Data:

- Unfragmented Blocks: refer to the explanation in the lower left.
- Roads derived from NH DOT roads layer (5/2002) and USGS digital line graph with assorted corrections and updates digitized from '98 GRANIT digital ortho-photo quads and as ID'd by Town of Chichester.

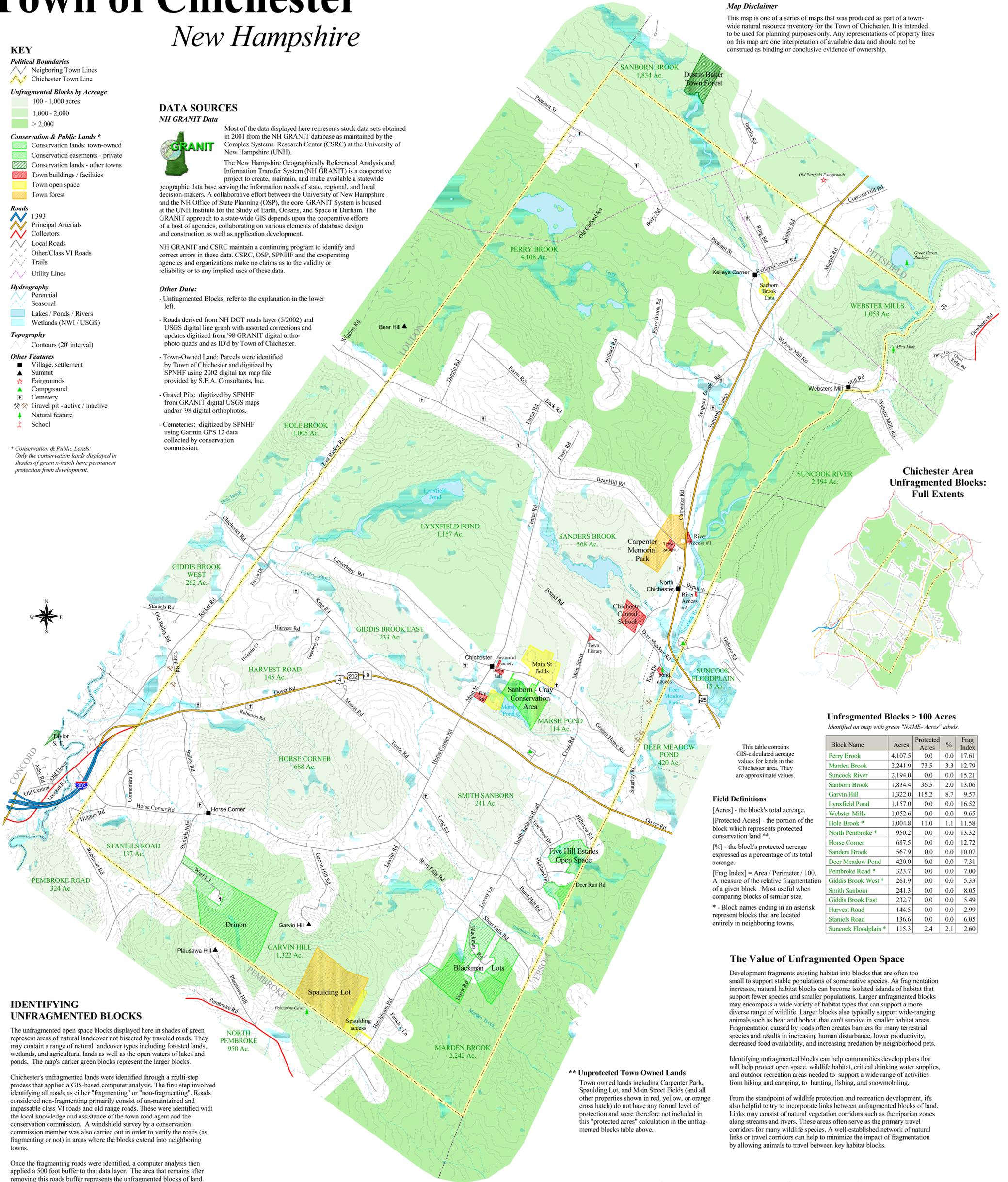
- Town-Owned Land: Parcels were identified by Town of Chichester and digitized by SPNH using 2002 digital tax map file provided by S.E.A. Consultants, Inc.

- Gravel Pits: digitized by SPNH from GRANIT digital USGS maps and/or '98 digital orthophotos.

- Cemeteries: digitized by SPNH using Garmin GPS 12 data collected by conservation commission.

Map Disclaimer

This map is one of a series of maps that was produced as part of a town-wide natural resource inventory for the Town of Chichester. It is intended to be used for planning purposes only. Any representations of property lines on this map are one interpretation of available data and should not be construed as binding or conclusive evidence of ownership.



Chichester Area Unfragmented Blocks: Full Extents



Unfragmented Blocks > 100 Acres

Identified on map with green "NAME-Acres" labels.

Block Name	Acres	Protected Acres	%	Frag Index
Perry Brook	4,107.5	0.0	0.0	17.61
Marden Brook	2,241.9	73.5	3.3	12.79
Suncook River	2,194.0	0.0	0.0	15.21
Sanborn Brook	1,834.4	36.5	2.0	13.06
Garvin Hill	1,322.0	115.2	8.7	9.57
Lynxfield Pond	1,157.0	0.0	0.0	16.52
Webster Mills	1,052.6	0.0	0.0	9.65
Hole Brook *	1,004.8	11.0	1.1	11.58
North Pembroke *	950.2	0.0	0.0	13.32
Horse Corner	687.5	0.0	0.0	12.72
Sanders Brook	567.9	0.0	0.0	10.07
Deer Meadow Pond	420.0	0.0	0.0	7.31
Pembroke Road *	323.7	0.0	0.0	7.00
Giddis Brook West *	261.9	0.0	0.0	5.33
Smith Sanborn	241.3	0.0	0.0	8.05
Giddis Brook East	232.7	0.0	0.0	5.49
Harvest Road	144.5	0.0	0.0	2.99
Staniels Road	136.6	0.0	0.0	6.05
Suncook Floodplain *	115.3	2.4	2.1	2.60

This table contains GIS-calculated acreage values for lands in the Chichester area. They are approximate values.

Field Definitions

- [Acres] - the block's total acreage.
- [Protected Acres] - the portion of the block which represents protected conservation land **.
- [%] - the block's protected acreage expressed as a percentage of its total acreage.
- [Frag Index] = Area / Perimeter / 100. A measure of the relative fragmentation of a given block. Most useful when comparing blocks of similar size.
- * - Block names ending in an asterisk represent blocks that are located entirely in neighboring towns.

The Value of Unfragmented Open Space

Development fragments existing habitat into blocks that are often too small to support stable populations of some native species. As fragmentation increases, natural habitat blocks can become isolated islands of habitat that support fewer species and smaller populations. Larger unfragmented blocks may encompass a wide variety of habitat types that can support a more diverse range of wildlife. Larger blocks also typically support wide-ranging animals such as bear and bobcat that can't survive in smaller habitat areas. Fragmentation caused by roads often creates barriers for many terrestrial species and results in increasing human disturbance, lower productivity, decreased food availability, and increasing predation by neighborhood pets.

Identifying unfragmented blocks can help communities develop plans that will help protect open space, wildlife habitat, critical drinking water supplies, and outdoor recreation areas needed to support a wide range of activities from hiking and camping, to hunting, fishing, and snowmobiling.

From the standpoint of wildlife protection and recreation development, it's also helpful to try to incorporate links between unfragmented blocks of land. Links may consist of natural vegetation corridors such as the riparian zones along streams and rivers. These areas often serve as the primary travel corridors for many wildlife species. A well-established network of natural links or travel corridors can help to minimize the impact of fragmentation by allowing animals to travel between key habitat blocks.

** Unprotected Town Owned Lands
Town owned lands including Carpenter Park, Spaulding Lot, and Main Street Fields (and all other properties shown in red, yellow, or orange cross hatch) do not have any formal level of protection and were therefore not included in this "protected acres" calculation in the unfragmented blocks table above.

IDENTIFYING UNFRAGMENTED BLOCKS

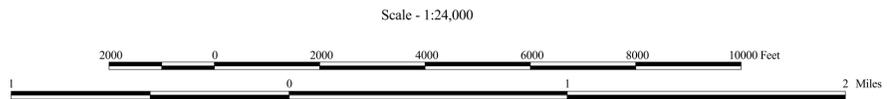
The unfragmented open space blocks displayed here in shades of green represent areas of natural landcover not bisected by traveled roads. They may contain a range of natural landcover types including forested lands, wetlands, and agricultural lands as well as the open waters of lakes and ponds. The map's darker green blocks represent the larger blocks.

Chichester's unfragmented lands were identified through a multi-step process that applied a GIS-based computer analysis. The first step involved identifying all roads as either "fragmenting" or "non-fragmenting". Roads considered non-fragmenting primarily consist of un-maintained and impassable class VI roads and old range roads. These were identified with the local knowledge and assistance of the town road agent and the conservation commission. A windshield survey by a conservation commission member was also carried out in order to verify the roads (as fragmenting or not) in areas where the blocks extend into neighboring towns.

Once the fragmenting roads were identified, a computer analysis then applied a 500 foot buffer to that data layer. The area that remains after removing this roads buffer represents the unfragmented blocks of land. A final step consisted of overlaying the unfragmented blocks with recent aerial photography (1998) in order to clip out any developed landcover areas missed in the preceding stage.

Unfragmented Lands Map

Prepared by the Society for the Protection of NH Forests - July 2003



SOCIETY FOR THE PROTECTION OF NEW HAMPSHIRE FORESTS

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