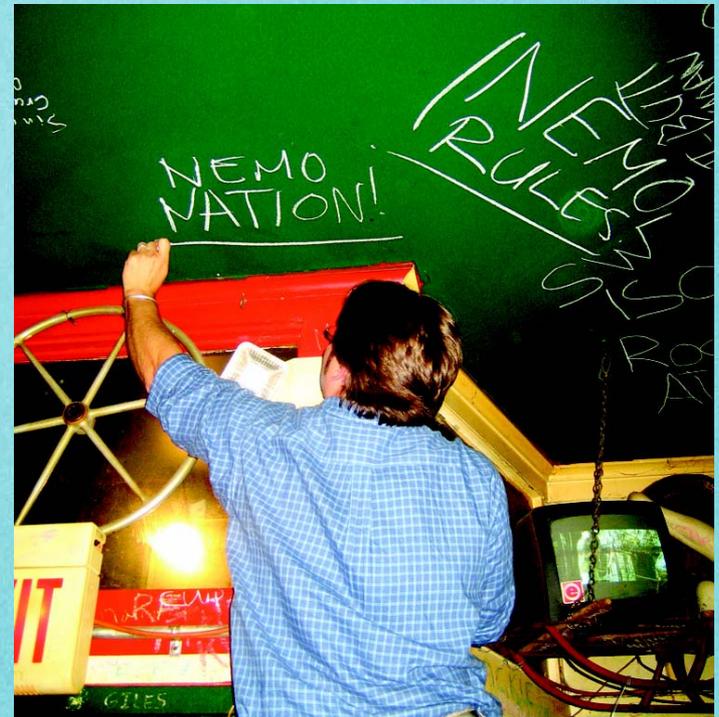


New & Noteworthy in NEMOland



Today's Presentation

- ▶ **Quick & Dirty NEMO**
- ▶ **New & Noteworthy In NEMOLand**
 - ▶ **Planning Tools**
 - ▶ **Site Design Tools**
 - ▶ **New Topics**

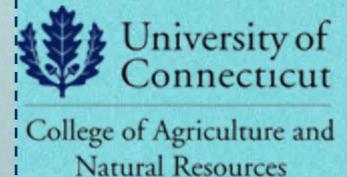


The Center for Land Use Education and Research

*Research, Tools & Training,
Outreach*

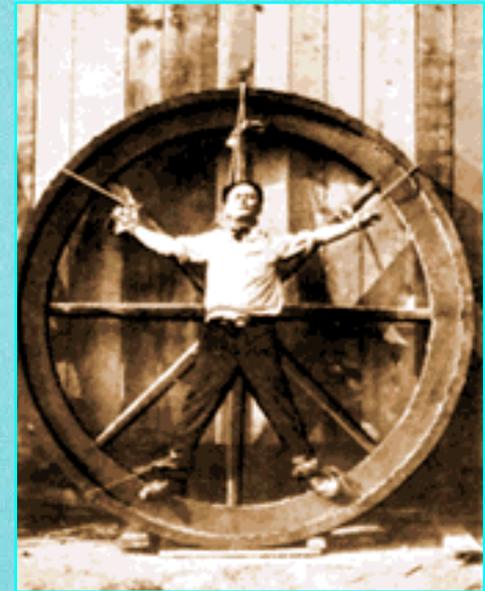


- To provide information, education and assistance to land use decision makers, in support of balancing growth and natural resource protection.



Nonpoint Education for Municipal Officials

- First NEMO workshop:
Fall of 1993
- Worked with about $\frac{3}{4}$
of CT's 169 towns
- Average 100
presentations/year
- FTE's: 2.5, all grant
funded



•Early NEMO workshops
included innovative techniques
to ensure participation.

3 Tiered Approach to NPS Pollution

1. Planning

2. Site Design

3. (Mechanical) Best Management Practices

Development that minimizes the damage to aquatic resources cannot rely on structural BMP's, because there is no evidence that they can mitigate any but the most egregious consequences of urbanization.

Booth et al., 2003.

The Target Audience

Local land use decision makers

- **Legal Mandates**
- **Full Plate**
- **High Turnover**
- **Complexity of Environmental Issues**
- **Tracking of Cumulative Impacts**

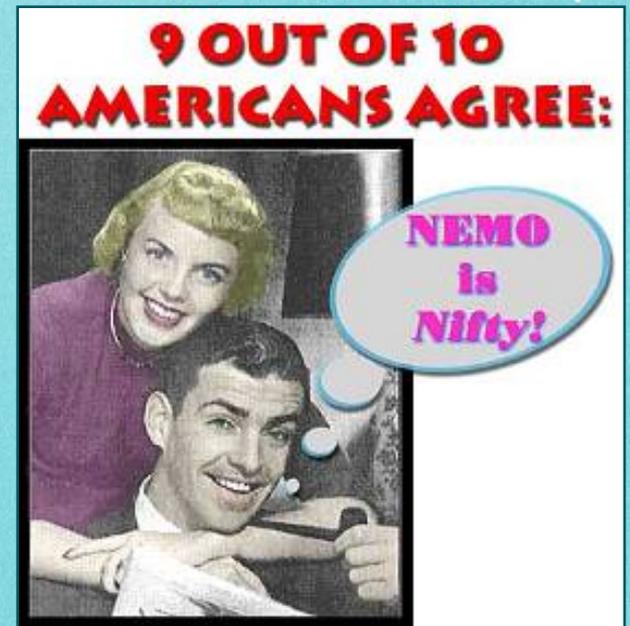


The Message (s)

- Natural resource-based planning
- **You can do this!**
- Planning as self-determination



NEMO NATIONAL



National NEMO Network

Presentations



Tools

A group of educational projects focused on the relationship of land use to natural resource protection, sharing information, materials and educational models.



Members
Development
Network Hub



Publications

NEMO Family Values

- The **IMPACT OF LAND USE** on water resources is the issue
- **LOCAL LAND USE DECISION MAKERS** are the target audience
- **Unbiased, research-based EDUCATION** is the method
- **NATURAL RESOURCE-BASED PLANNING** is the solution offered
- **GEOSPATIAL TECHNOLOGY** is used to enhance the education



Network Hub Services

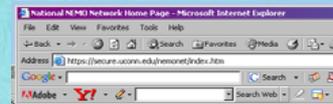
- Startups
- Networking
- Resource Sharing
- Training
- Partnerships

National NEMO Network OPEN SPACE PLANNING BOOT CAMP

UConn Marine Campus
Avery Point, CT
August 5 & 6, 2002



Sponsored by:



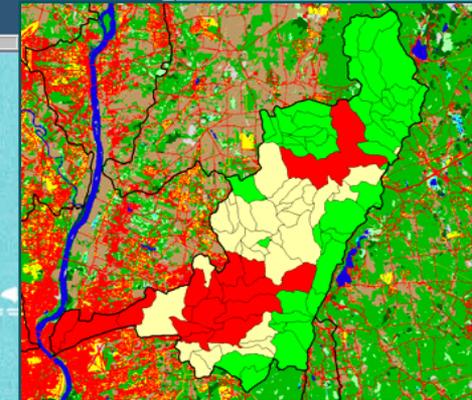
National NEMO Network
The National NEMO Network is a confederation of programs that educate local land use decision makers about the links between land use and natural resource protection.

About the Network
NEMO Programs
Network Hub
Got NEMO?

Network News Publications For Members

Announcements For Members, visit the **NEMO US Website** today!

The national NEMO Network is a program of the Center for Land Use Education and Research (CLUER), Land, Sea and Space Grant collaborating. Network Coordination funded by CLUER, NEMO and US Sea Office of the University of Connecticut | 2002-2003 and 2004-2005



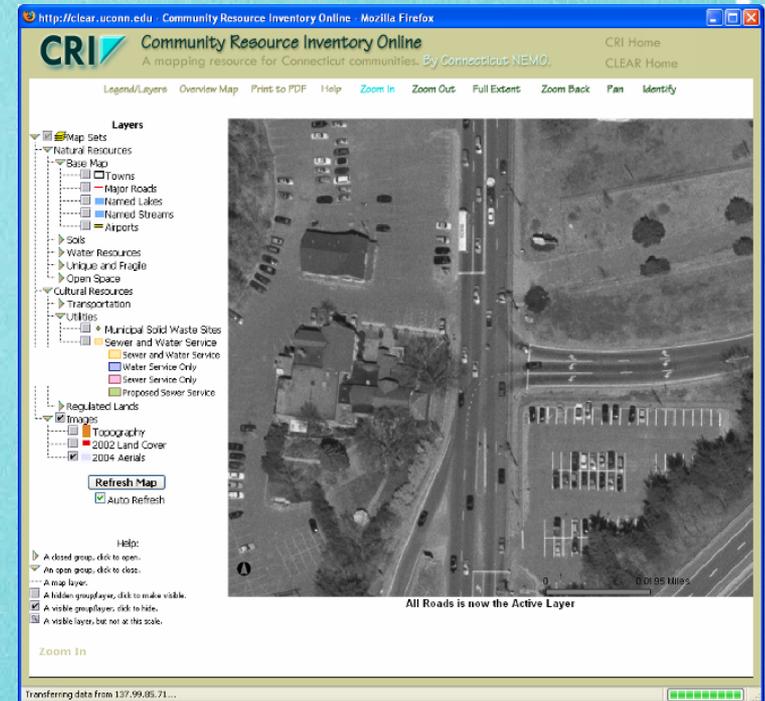
Yes, we have impacts!



- ▶ **Research & information gathering**
- ▶ **Changes to the decision making process**
- ▶ **Changes to plans**
- ▶ **Changes to regulations**
- ▶ **On the ground changes**
- ▶ **Beyond local impacts**

Today's Presentation

- ▶ Quick & Dirty NEMO
- ▶ New & Noteworthy In NEMOLand
 - ▶ Planning Tools
 - ▶ Site Design Tools
 - ▶ New Workshops



3 Tiered Approach to NPS Pollution

1. Planning

2. Site Design

3. (Mechanical) Best Management Practices

Development that minimizes the damage to aquatic resources cannot rely on structural BMP's, because there is no evidence that they can mitigate any but the most egregious consequences of urbanization.

Booth et al., 2003.

Natural Resource Based Planning

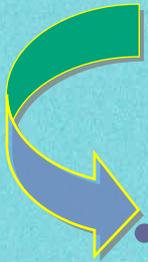
- inventory natural/cultural resources

- open space plan

- economic development plan

- Plan of Conservation & Development

- review/change land use plans, regulations, and town policies



The Online Community Resource Inventory

Community Resource Inventory - CT NEMO Program

http://clear.uconn.edu/projects/cri/index.htm

AppleInsider MacInTouch Apple Yahoo! NEMO CLEAR Your Town CRI Online Geog274 NWS Haddam Weather News Google Wikipedia

NEMO **CRI** Community Resource Inventory Online
A mapping resource for Connecticut communities.

[CRI Home](#) [Build Your CRI](#) [Use Your CRI](#) [Interactive Map](#) [Enhance Your CRI](#)

Welcome

[← Back to Tools & Resources](#)

[CRI Home](#)
[Schedule a CRI Presentation](#)
[Contact Us](#)
[CLEAR Site](#)
[CT NEMO Site](#)

Why a Resource Inventory?

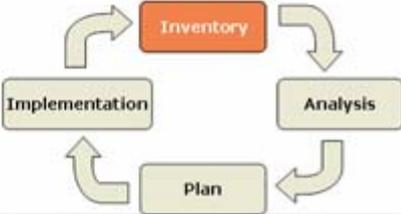
This website supports the NEMO workshop [Conducting a Community Resource Inventory](#). In order to effectively plan for your community's future, you need to have a handle on the natural, cultural and economic resources your town possesses. The Community Resource Inventory (CRI) is quite literally the first step in the planning process.



This site will enable you to develop a CRI for your town using available statewide information. A CRI is a list or atlas of the natural and cultural resources in your community. Although the maps contained are appropriate for community-level planning, they are not suitable for site level assessment. However, having a good set of town-wide inventory maps will help you and your town make decisions on the range of challenges: from open space preservation to economic development.

To get started, choose your municipality at [Build Your CRI](#). Here you can page through a series of town maps showing important natural and cultural resources, and access this information in both document (PDF) and data (GIS) formats. While this Inventory should be considered a "bare bones" version that can be enhanced and improved by other sources of data, it nonetheless provides a foundation for sound, rational planning decisions.

What is the Planning Process?



```
graph TD; Inventory[Inventory] --> Analysis[Analysis]; Analysis --> Plan[Plan]; Plan --> Implementation[Implementation]; Implementation --> Inventory;
```





Community Resource Inventory Online

A mapping resource for Connecticut communities.

[CRI Home](#)

[Build Your CRI](#)

[Use Your CRI](#)

[Interactive Map](#)

[Enhance Your CRI](#)

Map Sets

Natural Resources

- 1. Base Map
- 2. Topography
- 3. Land Cover
- 4. Soils
 - Wetland Soils
 - Farmland Soils
- 5. Water Resources
 - Watersheds
 - Surface Water
 - Water Quality
 - Ground Water
- 6. Unique & Fragile
- 7. Open Space

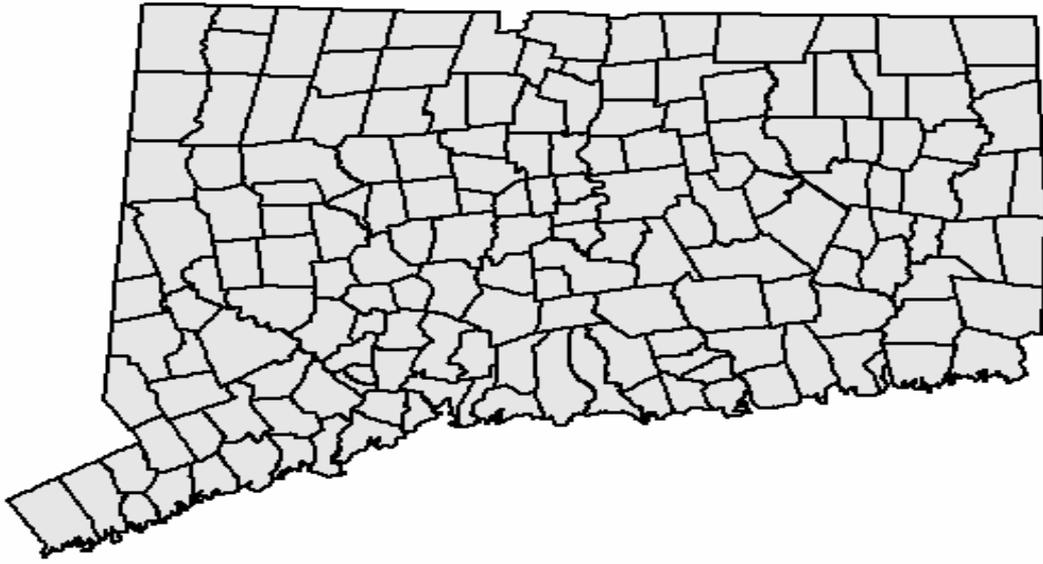
Cultural Resources

- 1. Transportation
- 2. Utilities
- 3. Regulated Lands

[Print Your CRI](#)

Getting Started

Choose your Municipality. Use the pull down menu below or click on the map.



Choose Town

[Back to Tools & Resources](#) | [CRI Home](#) | [Schedule a Presentation](#)
[Contact Us](#) | [CLEAR Website](#) | [CT NEMO Website](#)

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Community Resource Inventory Online

A mapping resource for Connecticut communities.

[CRI Home](#)

[Build Your CRI](#)

[Use Your CRI](#)

[Interactive Map](#)

[Enhance Your CRI](#)

Map Sets

Natural Resources

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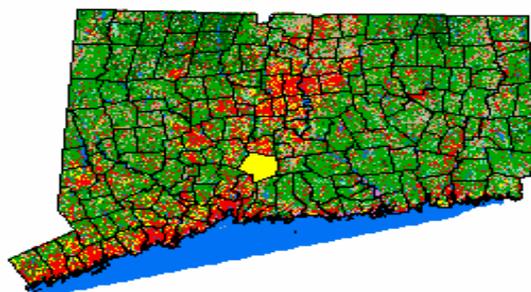
Cultural Resources

- 1. Transportation
- 2. Utilities
- 3. Regulated Lands

[Print Your CRI](#)

Location map

You've Chosen: Wallingford, CT



Oops, wrong town! Select Another

Incorporated - 1670

Origin of Name - Set off from New Haven and named, May, 1670, from Wallingford in Berkshire. Old name, "East River" or "New Haven Village."

Population

1850	2595
1900	9001
1950	16976
2000	43026

Area

Acres	25799
Square Miles	40.3
Square Km	104.4

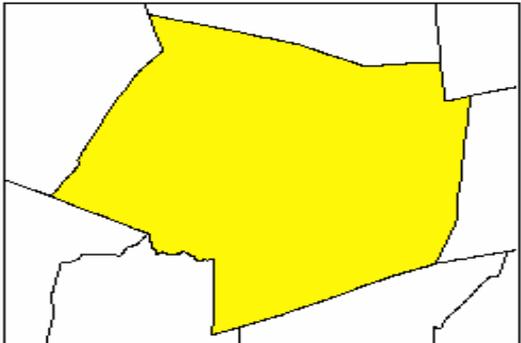
Belongs to

- New Haven County
- South Central Regional Council of Governments
- South Central Economic Development Region

Special thanks to the Environmental and Geographic Information Center (EGIC) of the Connecticut Department of Environmental Protection.

Proceed to the **Wallingford** CRI

Next



[Back to Top](#)





Community Resource Inventory Online

A mapping resource for Connecticut communities.

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[Use Your CRI](#)
[Interactive Map](#)
[Enhance Your CRI](#)

Map Sets

Natural Resources

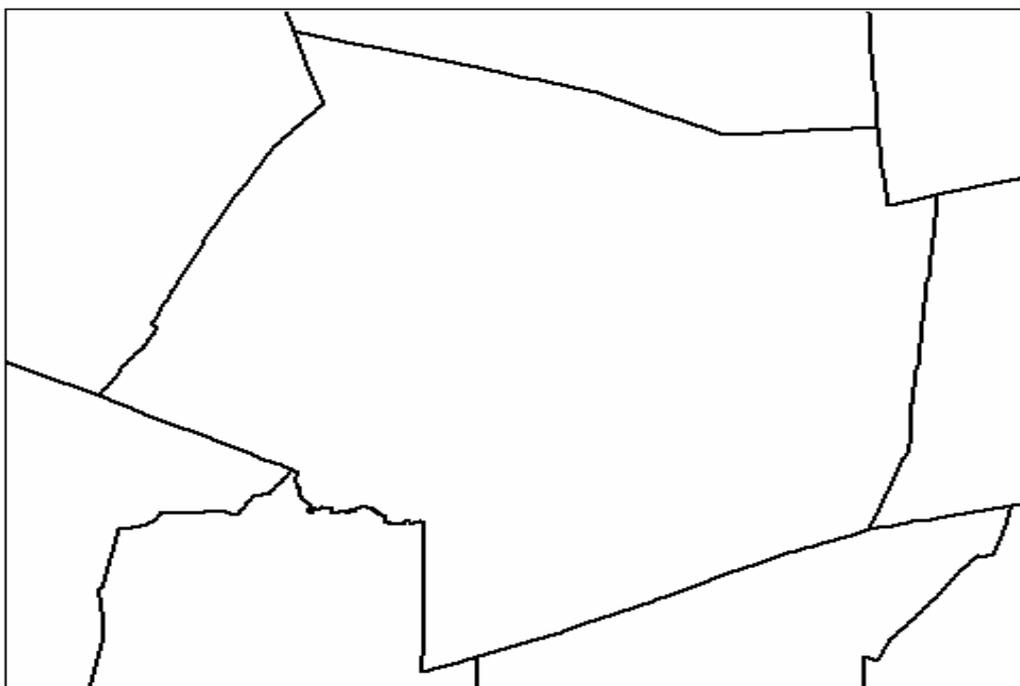
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

[Print Your CRI](#)

1. Wallingford Base Map



[← Back](#) [Next →](#)

To Orient Yourself:

[▶ Turn Orientation Elements On](#)
(roads, water bodies)

More Information:

[▶ Town Boundary](#)

Other Common Base Maps:

- [▶ USGS Topo Maps](#)
- [▶ Aerial Photos](#)

Legend:

Municipal Boundary

Download a pdf of the Wallingford [Base Map](#) for printing.

A good base map is important to provide context for all the natural resource and other information that you want to include in your CRI. The simplest base map, shown here, consists of town boundaries only. Other base maps can include orientation elements such as roads, railroads and major water features (this option is provided, top right). Other data layers appropriate for a base map, depending on its use, are aerial imagery or topographic maps.



Community Resource Inventory Online

A mapping resource for Connecticut communities.

[CRI Home](#)

[Build Your CRI](#)

[Use Your CRI](#)

[Interactive Map](#)

[Enhance Your CRI](#)

Map Sets

Natural Resources

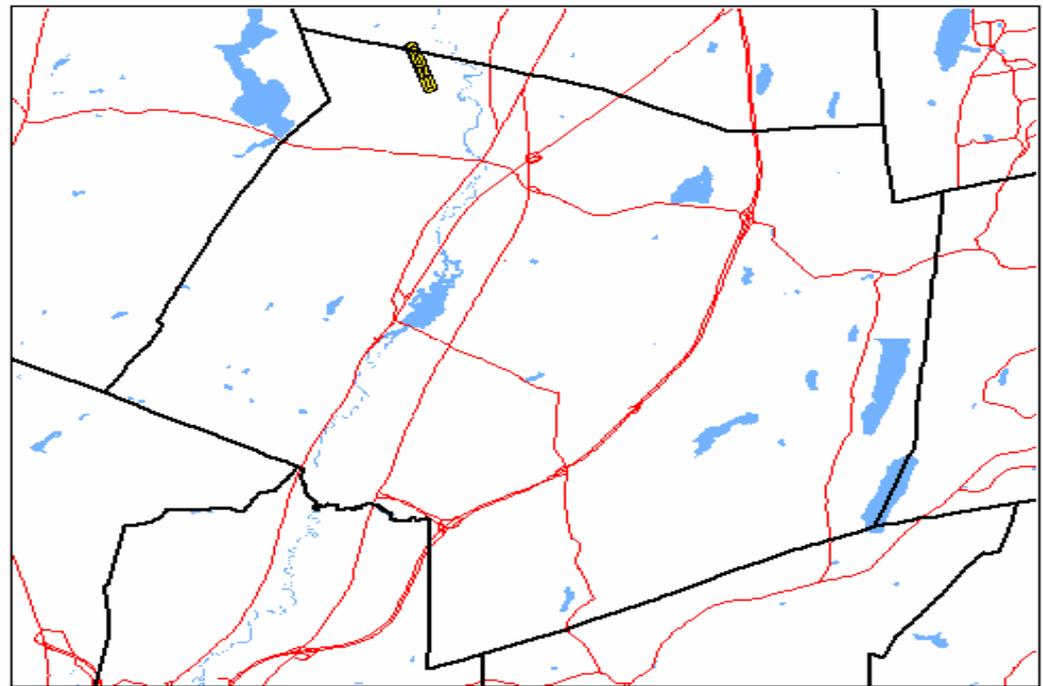
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Cultural Resources

- 1. Transportation
- 2. Utilities
- 3. Regulated Lands

[Print Your CRI](#)

1. Wallingford Base Map: Orientation Elements



To Orient Yourself:

[Turn Orientation Elements Off](#) (roads, water bodies)

More Information:

- [Town Boundary](#)
- [Roads](#)
- [Water Bodies](#)

Other Common Base Maps:

- [Town Boundary](#)
- [USGS Topo Maps](#)
- [Aerial Photos](#)

Legend:

	Municipal Boundary
	Primary Road
	Secondary Road
	Airport
	Lakes
	Streams

Download a pdf of the Wallingford [Base Map](#) for printing.

[← Back](#) [Next →](#)

Wallingford

A good base map is important to provide context for all the natural resource and other information that you want to display on your coastal resource map(s). Our very simple version of a base map includes town boundaries and orientation elements such as roads, railroads and major water features. Most people use these features to orient themselves when visualizing map information.

Other data layers appropriate for a base map: aerial imagery, topographic maps


[CRI Home](#)
[Build Your CRI](#)
[Use Your CRI](#)
[Interactive Map](#)
[Enhance Your CRI](#)

Map Sets

Natural Resources

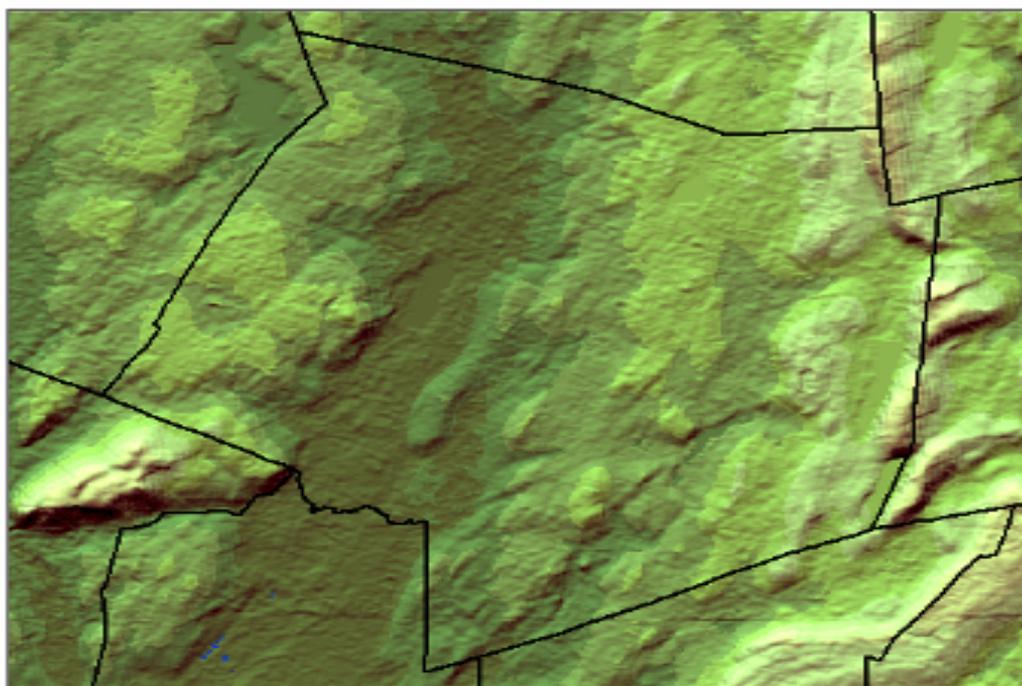
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

[Print Your CRI](#)

2. Wallingford Topography



To Orient Yourself:

[Turn Roads On](#)

More Information:

[Topography](#)

Other Common Topography Sources:

[USGS Topo Maps](#)

Legend:

Highest Elevation

 Lowest Elevation

Download a pdf of Wallingford [Topography](#) for printing.

[← Back](#)
[Next →](#)

Topography allows you to assess the "lay of the land" and understand where the steep and gradual slopes are within a town. These maps are derived from a "digital elevation model" developed by the U.S. Geological Service that determines the elevation of an area by assigning elevations to a regularly spaced grid. The "resolution" or size of the grid cells is about 30-meters (approximately 100-feet).

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Community Resource Inventory Online

A mapping resource for Connecticut communities.

CRI Home

Build Your CRI

Use Your CRI

Interactive Map

Enhance Your CRI

Map Sets

Natural Resources

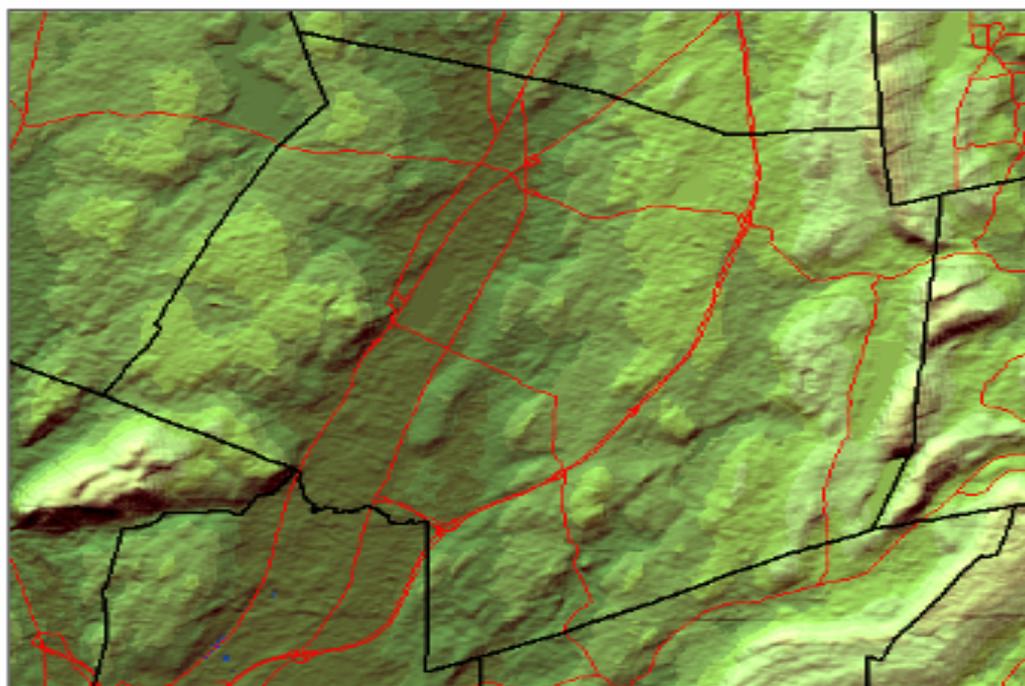
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7. Open Space

Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

Print Your CRI

2. Wallingford Topography



To Orient Yourself:

▶ [Turn Roads Off](#)

More Information:

▶ [Topography](#)

Other Common Topography Sources:

▶ [USGS Topo Maps](#)

Legend:

 Highest Elevation

 Lowest Elevation

 Road

Download a pdf of Wallingford [Topography](#) for printing.

Wallingford

Go

Topography allows you to assess the "lay of the land" and understand where the steep and gradual slopes are within a town. These maps are derived from a "digital elevation model" developed by the U.S. Geological



CRI Community Resource Inventory Online

A mapping resource for Connecticut communities.

- CRI Home
- Build Your CRI
- Use Your CRI
- Interactive Map
- Enhance Your CRI

Map Sets

Natural Resources

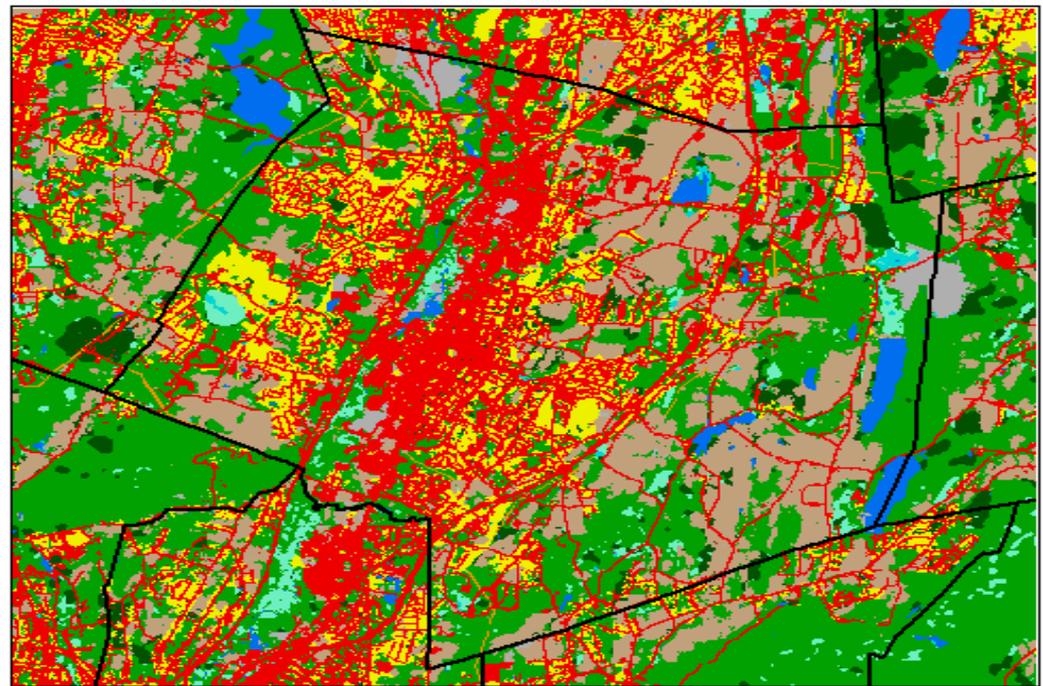
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7. Open Space

Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

Print Your CRI

3. Wallingford Land Cover



More Information:

[2002 Land Cover](#)

Other Common Sources of Land Cover:

[National Land Cover Dataset \(NLCD\)](#)

Legend:

- Municipal Boundary
- Developed
- Turf and Grass
- Other Grasses and Agriculture
- Deciduous Forest
- Coniferous Forest
- Water
- Non-forested Wetland
- Forested Wetland
- Tidal Wetland
- Barren
- Utility Right-of-Way

Download a pdf of the Wallingford Land Cover map for printing.

Wallingford

← Back Next →

Land cover data comes from the UConn Center for Land use Education And Research ([CLEAR](#)). It is based on information from the Landsat satellite, and relates what is on the surface of the land in your town—what areas are forested, what areas are developed, etc. The land cover data is captured in 30-meter squares ("pixels"), and so is appropriate for town-level analyses. The [CLEAR website](#) also contains historical (back to 1985) and other land cover data for your town that you may find useful for your CRI or related projects.

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Community Resource Inventory Online

A mapping resource for Connecticut communities.

CRI Home

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Use Your CRI

Interactive Map

Enhance Your CRI

Map Sets

Natural Resources

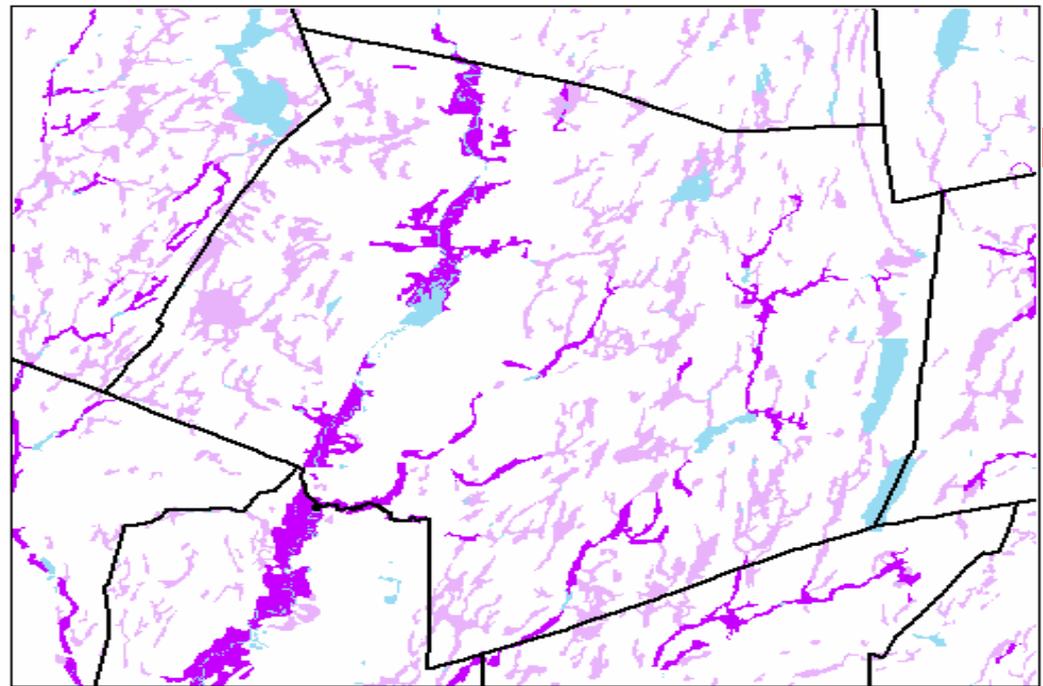
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Cultural Resources

- 1. Transportation
- 2. Utilities
- 3. Regulated Lands

Print Your CRI

4. Wallingford Wetland Soils



To Orient Yourself:

Turn Roads On

More Information:

Soils

visit the NRCS Web Soils Survey

Legend:

- Municipal Boundary
- Alluvial and floodplain soils
- Poorly drained/very poorly drained soils
- Water

Download a pdf of the Wallingford Wetland Soils map for printing.

Wallingford

Go

Back Next

The soils data is made up of many small map units, which may be dominated by a single soil, a mixture of soils, or non-soil areas. Soils data was collected by the USDA NRCS (formally the Soil Conservation Service) between 1962-1995. This map highlights the several categories of **wetland soils**. Wetlands can be important habitat areas, and, in Connecticut, regulated wetlands are determined by soil type. *An important caveat:* soils information should be used for PLANNING purposes only. In no way should it replace site level work when specific projects are proposed. Visit the Natural Resources Conservation Service (NRCS) [Web Soils Survey](#) for more information.

Soils

Source: Natural Resources Conservation Service (NRCS) by way of Connecticut Department of Environmental Protection

DEP Data Guide

[DEP Metadata](#) (ALL the details)

Where in the CRI?

Wetland Soils

Simplified the DEP Wetlands Soils data layer for viewing and to increase drawing speed in the interactive map. Simplification included combining Poorly Drained and Very Poorly Drained soil polygons into one class. A dissolve was applied to the data layer where boundaries between polygons of the same type were removed.

Farmland Soils

Simplified the DEP Farmland Soils data layer for viewing and to increase drawing speed in the interactive map. Simplification included eliminating polygons representing soils that were not prime farmland soils or not soils of statewide important. A dissolve was applied to the data layer where boundaries between polygons of the same type were removed.

Regulated

In the regulated mapset, wetland soils are displayed simply as either wetland soils or water.

- Municipal Boundary
- Alluvial and floodplain soils
- Poorly drained/very poorly drained soils
- Water
- Municipal Boundary
- Additional CT Important Farmland Soils
- Prime Farmland Soils

Close Window

Done

To Orient Yourself:

[Turn Roads On](#)

More Information:

[Soils](#)

Visit the NRCS Web Soils Survey

Legend:

- Municipal Boundary
- Alluvial and floodplain soils
- Poorly drained/very poorly drained soils
- Water

Download a pdf of the Wallingford Wetland Soils map for printing.

Wallingford

Go

...ed by a single soil, a mixture of
soils, or non-soil areas. Soils data was collected by the USDA NRCS (formerly the Soil Conservation Service) between 1962-1995. This map highlights the several categories of **wetland soils**. Wetlands can be important habitat areas, and, in Connecticut, regulated wetlands are determined by soil type. *An important caveat:* soils information should be used for PLANNING purposes only. In no way should it replace site level work when specific projects are proposed. Visit the Natural Resources Conservation Service (NRCS) [Web Soils Survey](#) for more information.



Community Resource Inventory Online

A mapping resource for Connecticut communities.

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[Interactive Map](#)

[Enhance Your CRI](#)

Map Sets

Natural Resources

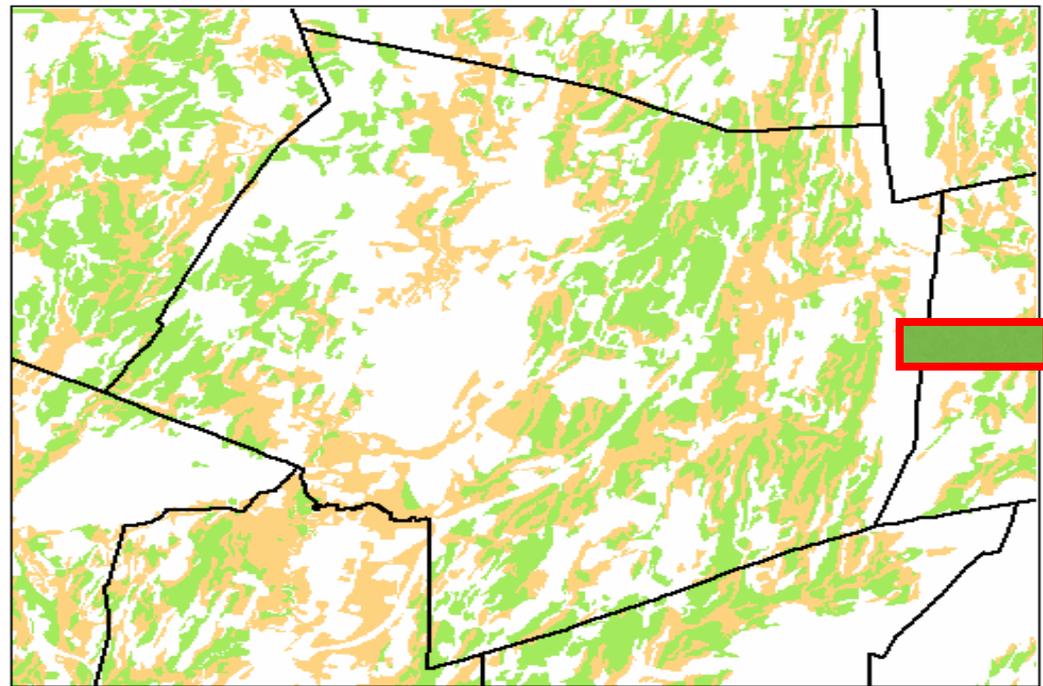
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- 7. Open Space

Cultural Resources

- 1. Transportation
- 2. Utilities
- 3. Regulated Lands

[Print Your CRI](#)

4. Wallingford Farmland Soils



To Orient Yourself:

[Turn Roads On](#)

More Information:

[Soils](#)

Legend:

- Municipal Boundary
- Additional CT Important Farmland Soils
- Prime Farmland Soils

Download a pdf of the Wallingford Farmland Soils map for printing.

[← Back](#) [Next →](#)

Wallingford

[Go](#)

The soils data is made up of many small map units, which may be dominated by a single soil, a mixture of soils, or non-soil areas. Soils data was collected by the USDA NRCS (formally the Soil Conservation Service) between 1962-1995. This map highlights soils that have been identified as having **agricultural significance**. Many towns are concerned about conserving their agricultural heritage and/or potential. *An important caveat:* soils information should be used for PLANNING purposes only. In no way should it replace site level work when specific projects are proposed.



Map Sets

Natural Resources

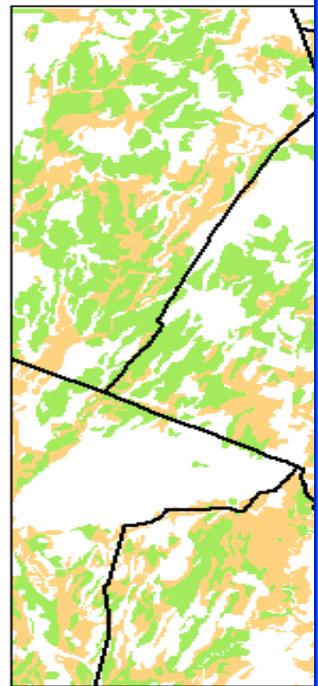
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

Print Your CRI

4. Wallingford

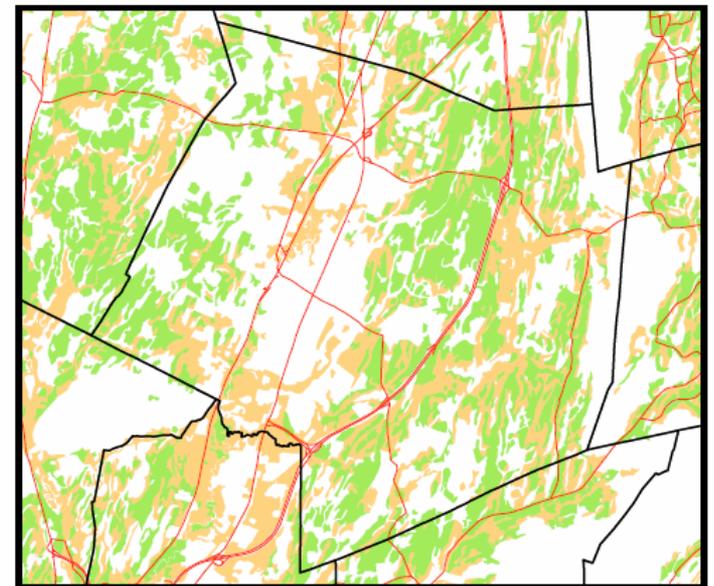


← Back Ne

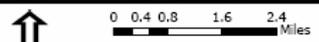
The soils data is made
soils, or non-soil areas
between 1962-1995.
Many towns are conc
caveat: soils informat
work when specific pr

Wallingford, CT Farmland Soils

Community Resource Inventory Map Series



- Legend**
- Towns
 - Primary Route
 - Secondary Route
 - Important Farmland Soils
 - Prime Farmland Soils



More Information: Visit <http://clear.uconn.edu/projects/cri>

Data source: Natural Resources Conservation Service (NRCS) by way of the CT DEP (<http://dep.state.ct.us/gis/>).

This project was funded in part by the CT DEP through an EPA Clean Water Act Section 319 Nonpoint Source Grant. NEMO is an educational program of the Center for Land Use Education and Research (CLEAR) at the University of Connecticut.

These maps are intended for general information and planning purposes only. They contain no authoritative positional information.





Map Sets

Natural Resources

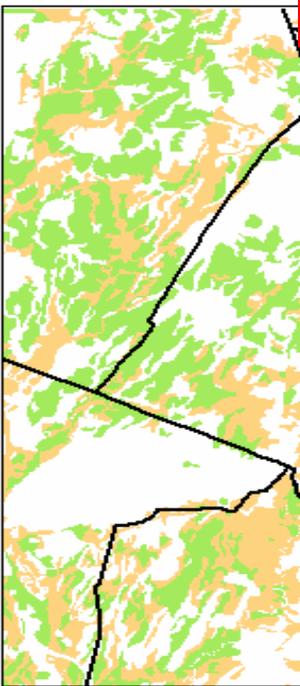
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

Print Your CRI

4. Wallingford



← Back Ne

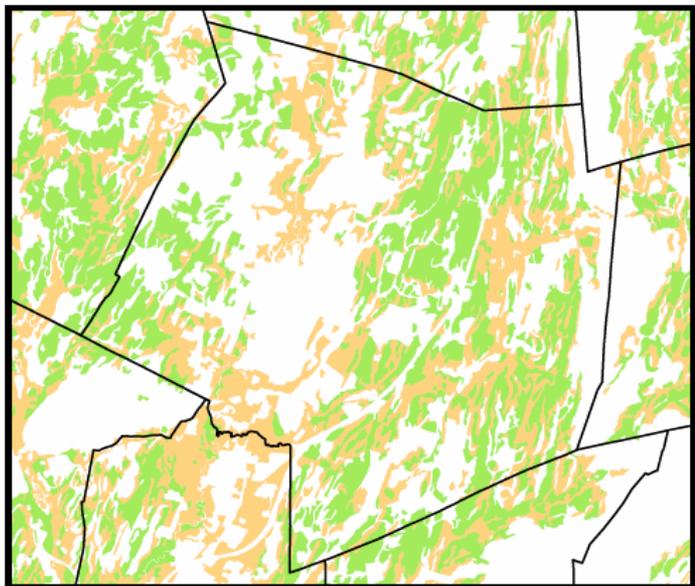
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between 1962-1995.
Many towns are conc
caveat: soils informat
work when specific pr

- Options x
- Layers
 - Labels
 - Towns
 - Labels
 - Towns
 - Roads
 - Farmland Soils

Wallingford, CT

Farmland Soils

Community Resource Inventory Map Series



- Legend
- Towns
 - Primary Route
 - Secondary Route
 - Important Farmland Soils
 - Prime Farmland Soils



More Information: Visit <http://clear.uconn.edu/projects/cri>

Data source: Natural Resources Conservation Service (NRCS) by way of the CT DEP (<http://dep.state.ct.us/gis/>).

This project was funded in part by the CT DEP through an EPA Clean Water Act Section 319 Nonpoint Source Grant. NEMO is an educational program of the Center for Land Use Education and Research (CLEAR) at the University of Connecticut.

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CRI Community Resource Inventory Online

A mapping resource for Connecticut communities.

- [CRI Home](#)
- [Build Your CRI](#)
- [Use Your CRI](#)
- [Interactive Map](#)
- [Enhance Your CRI](#)

Map Sets

Natural Resources

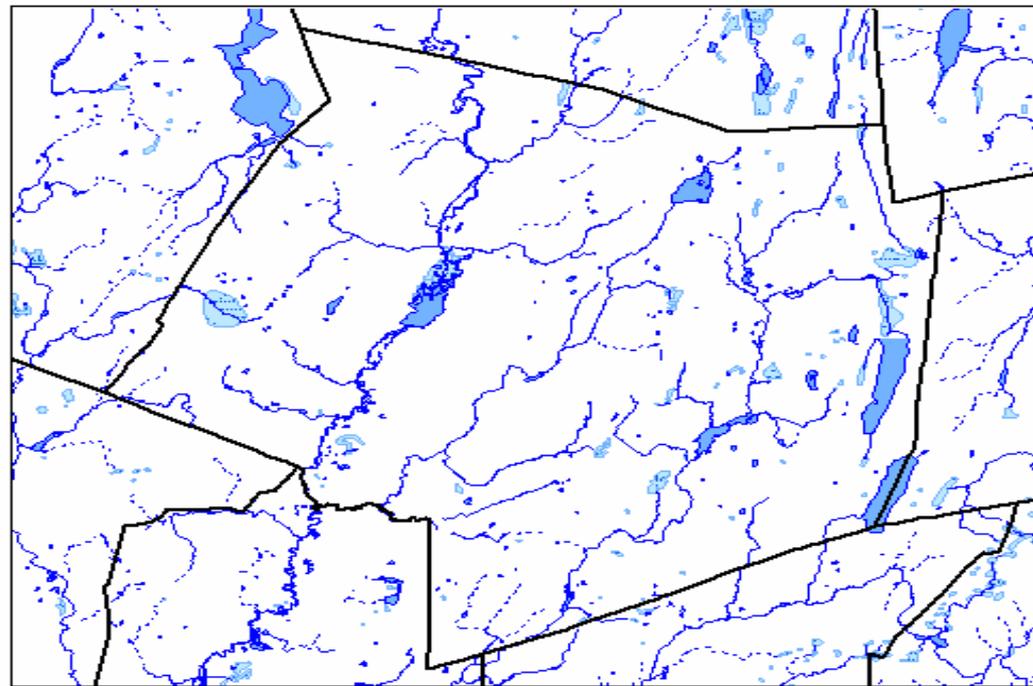
1. Base Map
2. Topography
3. Land Cover
4. Soils
 - Wetland Soils
 - Farmland Soils
5. Water Resources
 - Watersheds
 - Surface Water
 - Water Quality
 - Ground Water
6. Unique & Fragile
7. Open Space

Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

[Print Your CRI](#)

5. Wallingford Water Resources: Surface Water



To Orient Yourself:

- [Turn Roads On](#)

More Information:

- [Hydrography](#)

Legend:

- Municipal Boundary
- Water
- Shore
- Intermittent Water
- Flats
- Water
- Intermittent Water
- Flats
- Rocks
- Inundated Area
- Marsh on Quad

Download a pdf of the Wallingford Surface Water map for printing.

Wallingford

[← Back](#) [Next →](#)

The surface water map shows the key streams, rivers, ponds, lakes and coastal resources in your town. Waterways are the "lifelines" of the aquatic ecosystem, and can be critical components of your drinking water system. They also may serve as a recreational resource. As such, surface water is an important data layer for any open space or comprehensive planning process.

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Map Sets

Natural Resources

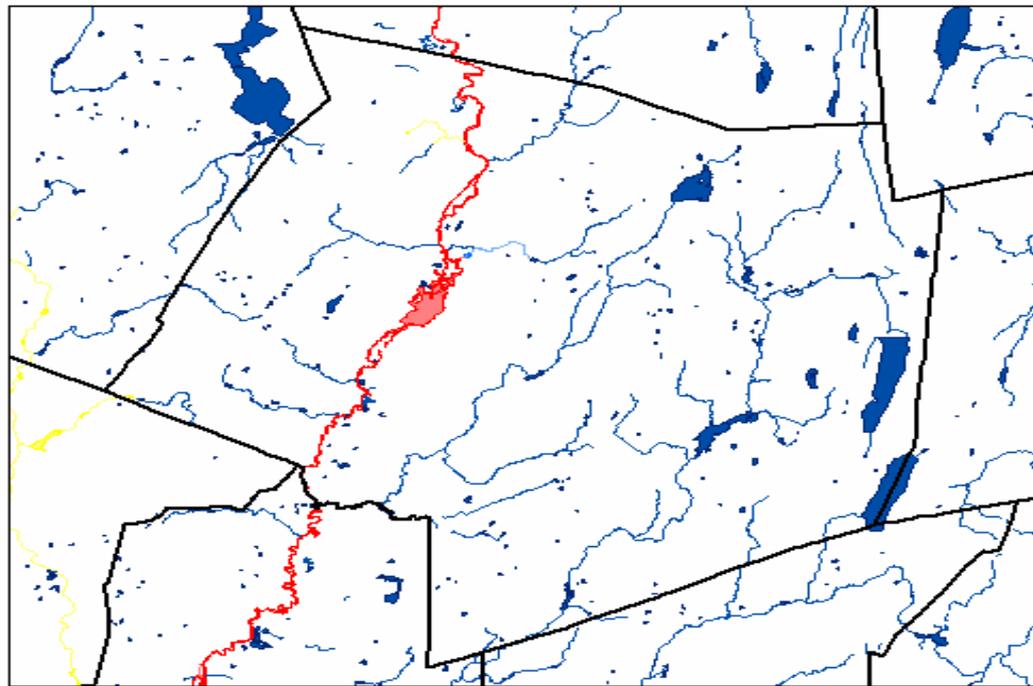
1. Base Map
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 - Water Quality
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

[Print Your CRI](#)

5. Wallingford Water Resources: Surface Water Quality



To Orient Yourself:

- [Turn Roads On](#)

More Information:

- [Surface Water Quality](#)

Legend:

- Municipal Boundary
- Good to excellent natural quality (A AA)
- Fishable, swimmable (B)
- Natural quality may be threatened (B/A B/A)
- Impaired
- Coastal impaired
- Coastal good to excellent natural quality
- Coastal fishable, swimmable
- Good to excellent natural quality (A AA)
- Fishable, swimmable (B B*)
- Natural quality may be threatened (B/A B/A)
- Impaired (C/A C/B D/B)
- Coastal Fishable, swimmable (S/B)
- Coastal impaired (SB/SA, SC/SA, SC/SB, SD/

Download a pdf of the Wallingford Surface Water Quality map for printing.

Wallingford

[← Back](#) [Next →](#)

The surface quality map is based on Connecticut DEP's [Connecticut Water Quality Standards and Classification](#). It shows the overall classification that is assigned by CTDEP to each stream segment and water body, based on both the overall quality of the water and the uses that are designated as desirable for that water. This map contains two classification schemes: one for inland waters, where the goal for use of the cleanest water is for drinking water supply, and one for coastal waters, where the goal for use of the cleanest water is for direct consumption. These maps should be used for overall planning purposes only, since the geographic coverage and recentness of local data may vary.



Community Resource Inventory Online

A mapping resource for Connecticut communities.

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Map Sets

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Cultural Resources

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[Print Your CRI](#)

6. Wallingford Unique and Fragile



To Orient Yourself:

[Turn Roads On](#)

More Information:

[Natural Diversity Database](#)

Other Unique and Fragile Data Layers:

Legend:

- Municipal Boundary
- NDDB Area

Download a pdf of the Wallingford [Unique and Fragile](#) areas for printing.

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Wallingford

[Go](#)

The Natural Diversity Database delineates areas where species listed by the state as threatened, endangered or of special concern have been identified. The identification of these unique and fragile habitat areas in your town will help you with the prioritization of lands during the open space planning process or in assessing at potential environmental impacts from development proposals. The NDDB is a generalized dataset, with circles that show general areas but are not meant to pinpoint exact locations (for fear that illegal collectors will use the data). Its usefulness for planning will benefit from the input of local and topical experts. Also, town officials can request more precise data from CTDEP. Visit the [data guide page](#) for more



Community Resource Inventory Online

A mapping resource for Connecticut communities.

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Map Sets

Natural Resources

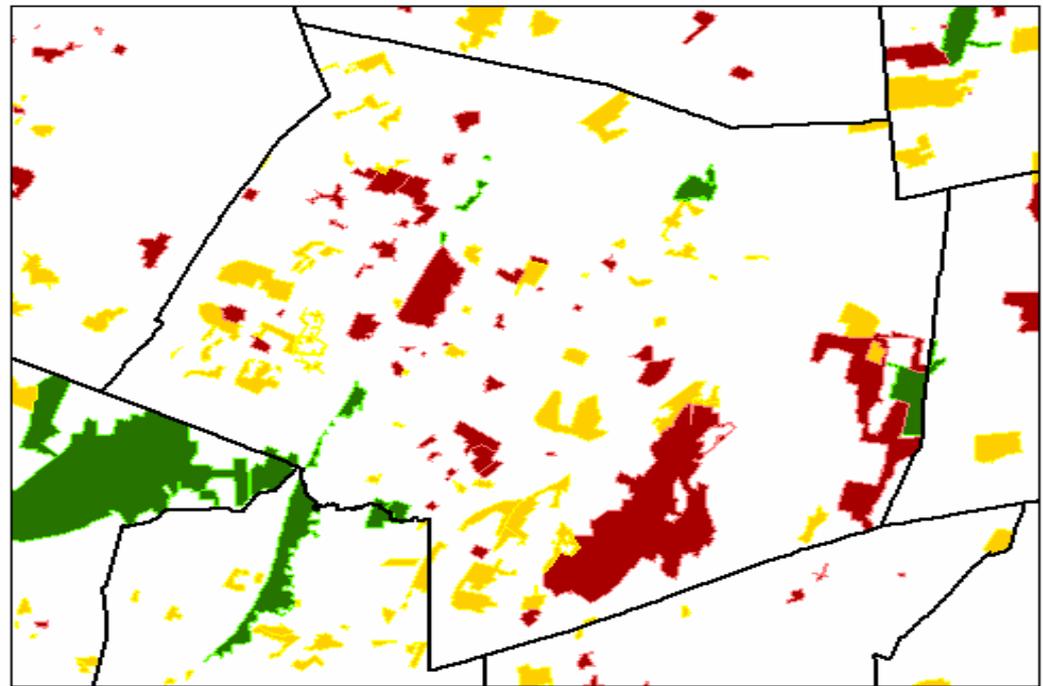
1. Base Map
2. Topography
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 - Wetland Soils
 - Farmland Soils
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 - Surface Water
 - Water Quality
 - Ground Water
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7. Open Space

Cultural Resources

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[Print Your CRI](#)

7. Wallingford Committed Open Space



To Orient Yourself:

[Turn Roads On](#)

More Information:

[Open Space Property](#)

Legend:

- Municipal Boundary
- Municipal Open Space
- Private Open Space
- DEP Property
- Federal Property

Download a pdf of the Wallingford Open Space map for printing.

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Wallingford

The committed open space information from the CTDEP includes state, municipal and private lands that are held as permanently protected open space, or as community facilities. The state has been updating this map recently. It is not available yet, but we will update this map when it the greatly improved data becomes available. In addition, this data layer can benefit from the input of local experts, particularly from your local land trust, conservation commission and town staff. DEP Property updated December 2006.

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Map Sets

Natural Resources

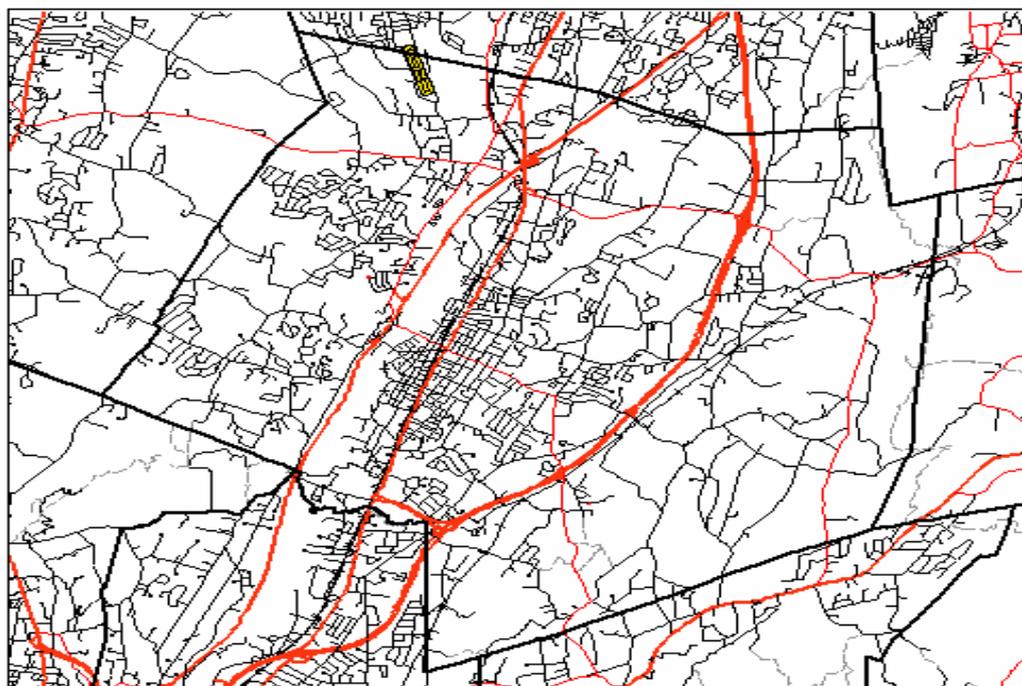
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Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

[Print Your CRI](#)

1. Wallingford Infrastructure: Transportation



More Information:

- [▶ Roads](#)
- [▶ Railroads](#)
- [▶ Airports](#)

Legend:

- Municipal Boundary
- Primary Route
- Secondary Route
- Local Road
- Unimproved Road
- Highway Toll
- Non-standard
- Under Construction
- Footbridge
- Trail
- Railroad
- Airport

Download a pdf of the Wallingford [Transportation Infrastructure](#) map for printing.

[← Back](#) [Next →](#)

The first map set in the Cultural Resource Inventory is community infrastructure, which shows the major capital investments of your community such as transportation and utilities. The transportation map layers available from the DEP include transportation elements such as roads, trails, railroads and airports. The transportation network serves several key functions in your inventory, providing a general orienting element for viewers, and highlighting the major existing and potential development corridors.

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Community Resource Inventory Online

A mapping resource for Connecticut communities.

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Map Sets

Natural Resources

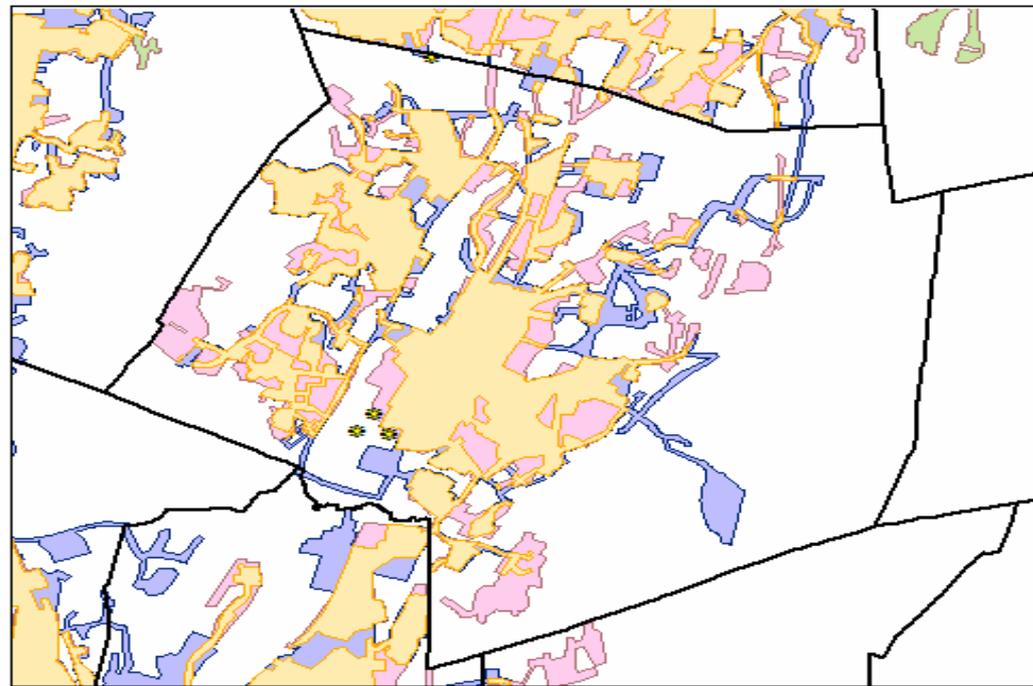
- 1. Base Map
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Cultural Resources

- 1. Transportation
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- 3. Regulated Lands

[Print Your CRI](#)

2. Wallingford Community Infrastructure: Utilities



To Orient Yourself:

- ▶ [Turn Roads On](#)

More Information:

- ▶ [Municipal Solid Waste Sites](#)
- ▶ [Sewer Service Areas](#)
- ▶ [Water Service Areas](#)

Legend:

- Municipal Boundary
- Municipal Solid Waste Sites
- Sewer and Water Service
- Water Service Only
- Sewer Service Only
- Proposed Sewer Service

Download a pdf of the Wallingford Utilities map for printing.

Wallingford

[Go](#)

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The first map set in the Cultural Resource Inventory is community infrastructure, which shows the major capital investments of your community such as transportation and utilities. The utility map depicts sewer and water service areas, and solid waste facilities.

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CRI Community Resource Inventory Online

A mapping resource for Connecticut communities.

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6. Unique & Fragile
7. Open Space

Cultural Resources

1. Transportation
2. Utilities
3. Regulated Lands

Print Your CRI

Community Resource Inventory

Congratulations! You completed the first step to in the Community Resource Inventory for Wallingford.

If you would like to print a map or maps and haven't done so, click on the "pdf" links below. Put the pages together to create an inventory. OR, click on [One Fell Swoop](#) and get your town CRI as a complete publication! Such a deal!!

The pdfs also contain a **cool new capability!** You can **turn map layers on and off within Adobe Reader!** Look for the "Layers" tab on the left side in Adobe Reader.

If you would like to go one step further and work with the data layers yourself in a free, user-friendly GIS, [click here](#).

Title Pages	Pdf
Natural Resources Inventory	
1. Base Map:	
Town Boundary	Pdf link
Town Boundary with Orientation Elements	link
2. Topography	
Pdf link	
3. Land Cover	
Pdf link	
4. Soils:	
Wetland Soils	Pdf link
Farmland Soils	Pdf link
5. Water Resources:	
Basins	Pdf link
Surface Water	Pdf link
Surface Water Quality	Pdf link
Ground Water	Pdf link
6. Unique and Fragile	
Pdf link	
7. Committed Open Space	
Pdf link	



Layers

- Map Sets
- Natural Resources
 - Base Map
 - Towns
 - Major Roads
 - Named Lakes
 - Named Streams
 - Airports
 - Soils
 - Water Resources
 - Unique and Fragile
 - Open Space
- Cultural Resources
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 - Utilities
 - Municipal Solid Waste Sites
 - Sewer and Water Service
 - Sewer and Water Service
 - Water Service Only
 - Sewer Service Only
 - Proposed Sewer Service
 - Regulated Lands
- Images
 - Topography
 - 2002 Land Cover
 - 2004 Aerials

Auto Refresh

Help:

- A closed group, click to open.
- An open group, click to close.
- A map layer.
- A hidden group/layer, click to make visible.
- A visible group/layer, click to hide.
- A visible layer, but not at this scale.



All Roads is now the Active Layer

[Zoom In](#)





Layers

- Map Sets
- Natural Resources
 - Base Map
 - Towns
 - Major Roads
 - Named Lakes
 - Named Streams



Community Resource Inventory Map Series



0 0.002006 0.012 0.018 0.024 Miles

Download and print the **Legend** page at <http://clear.uconn.edu/projects/cri/legends.pdf>

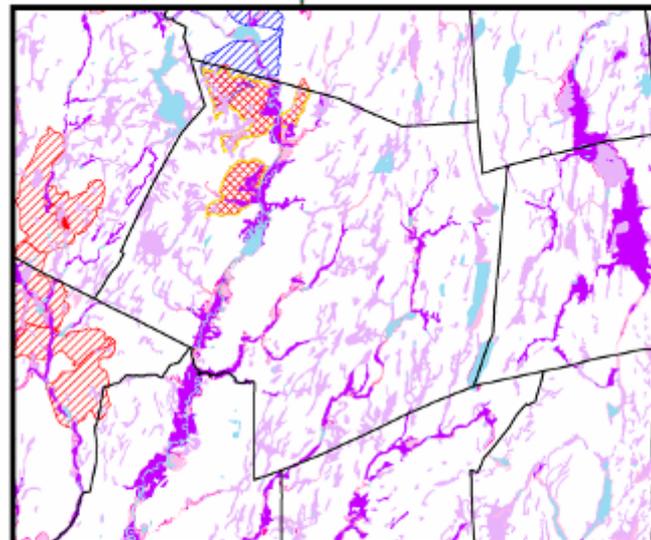
Visit the NEMO Community Resource Inventory (CRI) website <http://nemo.uconn.edu/tools/cri/> for more information.

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Community Resource Inventory Map Series



0 0.45 0.9 1.8 2.7 3.6 Miles

Download and print the **Legend** page at <http://clear.uconn.edu/projects/cri/legends.pdf>

Visit the NEMO Community Resource Inventory (CRI) website <http://nemo.uconn.edu/tools/cri/> for more information.

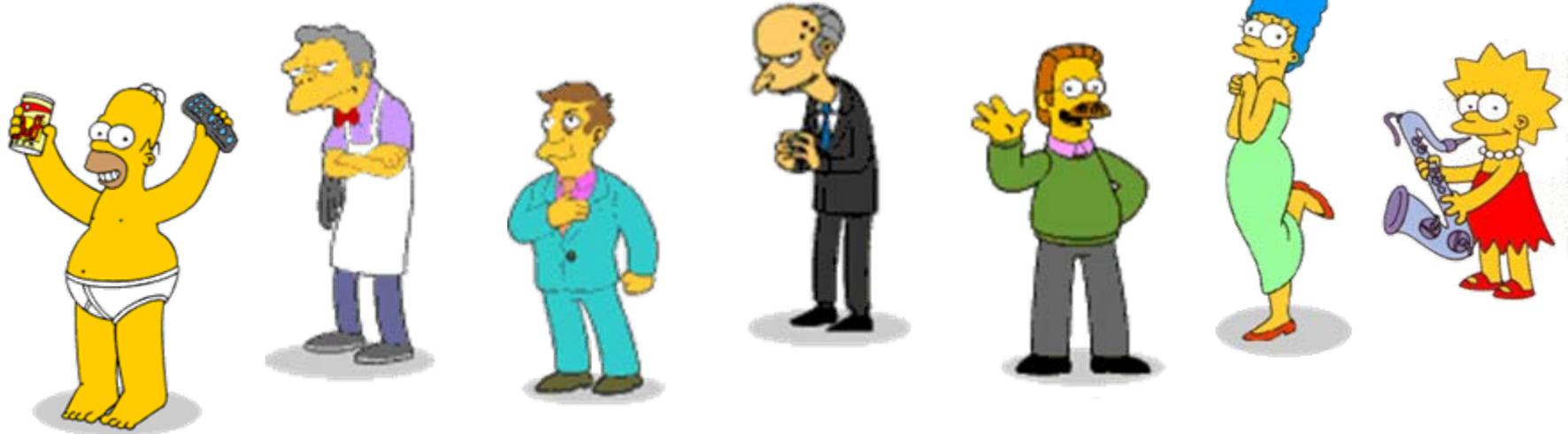
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All Roads is n

Technology as a Force for Democratization!



CRI Franchising

Community Resource Inventory - CT NEMO Program - Mozilla Firefox

http://clear.uconn.edu/projects/cri/cri_online/09_utilities.asp?listtown=148&Go=Go

CRI Community Resource Inventory Online
A mapping resource for Connecticut communities.

CRI Home Build Your CRI Use Your CRI Interactive Map Enhance Your CRI

2. Wallingford Community Infrastructure: Utilities

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Print Your CRI

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Wallingford Go

The first map set in the Cultural Resource Inventory is community infrastructure, which shows the major capital investments of your community such as transportation and utilities. The utility map depicts sewer and water service areas, and solid waste facilities.

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To Orient Yourself:
▶ Turn Roads On

More Information:
▶ Municipal Solid Waste Sites
▶ Sewer Service Areas
▶ Water Service Areas

Legend:

- Municipal Boundary
- ✱ Municipal Solid Waste Sites
- Sewer and Water Service
- Water Service Only
- Sewer Service Only
- Proposed Sewer Service

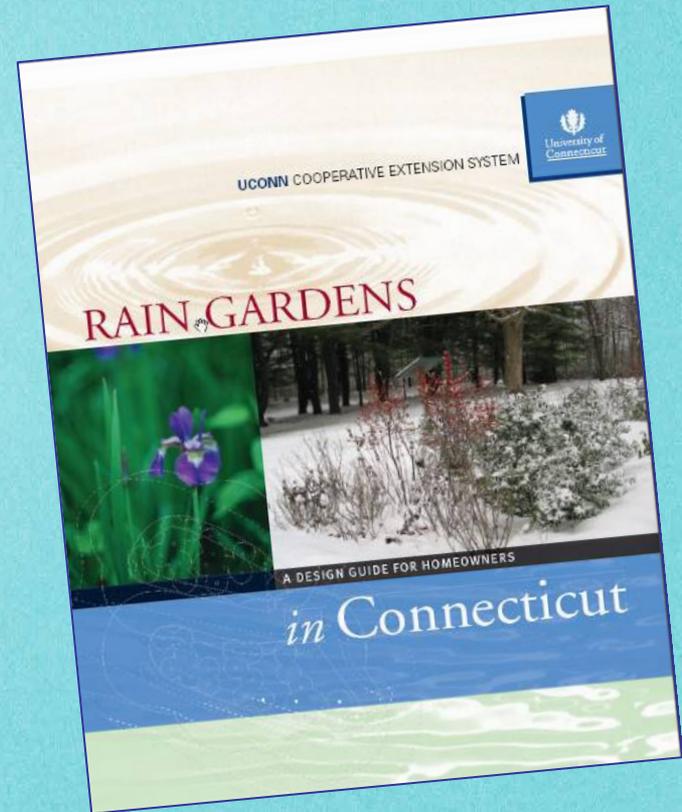
Download a pdf of the Wallingford Utilities map for printing.

Franchising



Today's Presentation

- ▶ **Quick & Dirty NEMO**
- ▶ **New & Noteworthy In NEMOLand**
 - ▶ **Planning Tools**
 - ▶ **Site Design Tools**
 - ▶ **New Workshops**



Jordan Cove Demonstration



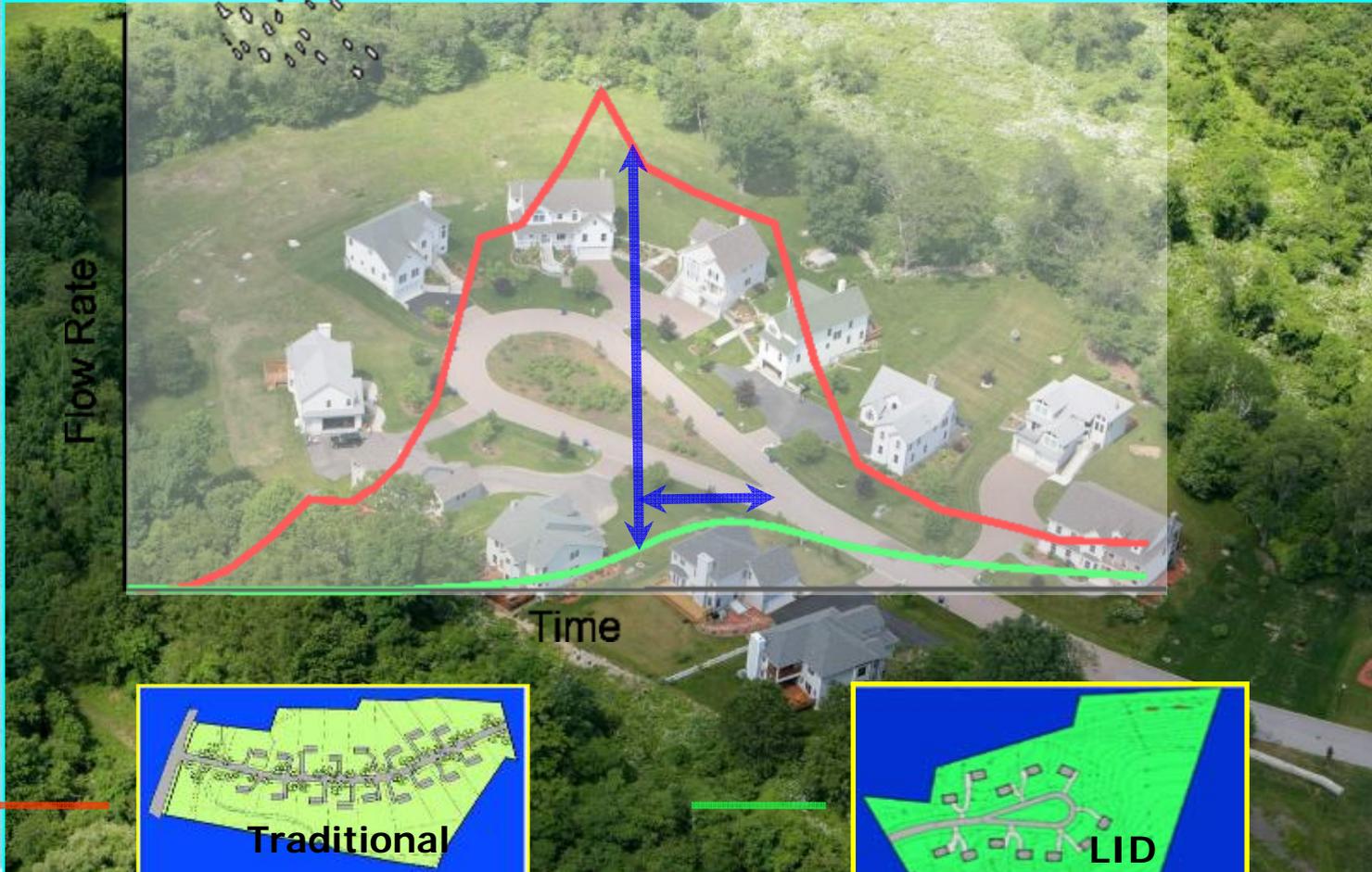
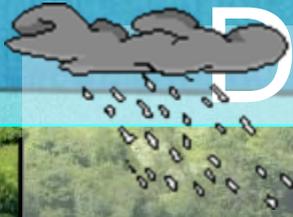
Jordan Cove Demonstration

- ✓ cluster layout
- ✓ grassed swales
- ✓ pervious road
- ✓ pervious driveways
- ✓ rain gardens
- ✓ bioretention cul-de-sac
- ✓ low mow areas



Jordan Cove

Demonstration



Flow Rate

Time

Traditional

LID

Jordan Cove Demonstration

<http://cag.uconn.edu/nrme/jordancove/>

Welcome to the Jordan Cove Urban Watershed Section 319 National Monitoring Program Project, located in Waterford, Connecticut.

This website highlights the project's background, has detailed descriptions of the low impact development practices used, lists technical and non-technical results and shows interviews from various project participants.

Jordan Cove
Urban Watershed Project

Publications
Contacts

Overview | Timeline | BMP Tour | Results | Testimonials | Photo Gallery

University of Connecticut

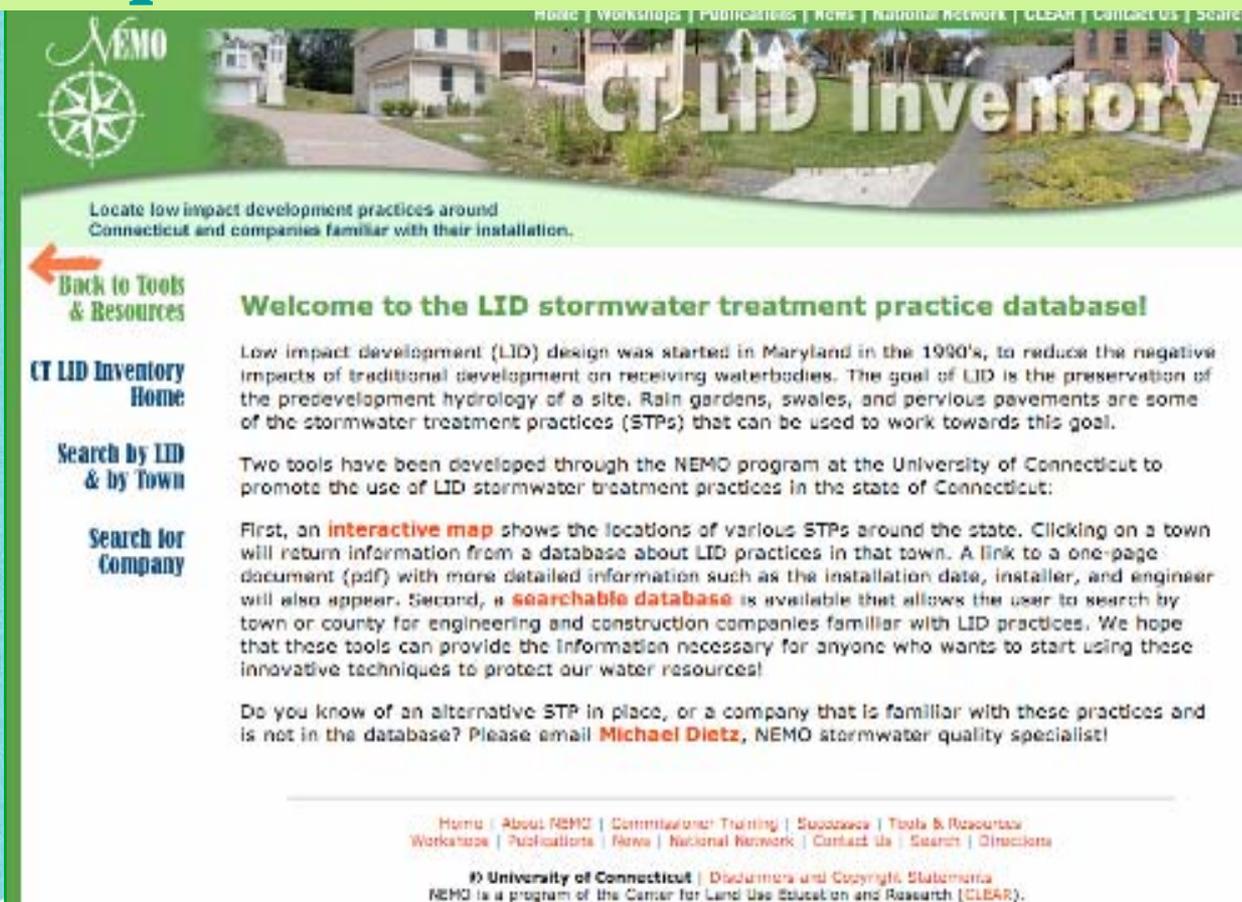
This project is partially funded by the CT DEP through a US EPA, nonpoint source (NPS) grant under section 319 Clean Water Act.

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
UNITED STATES AGENCY FOR ENVIRONMENTAL PROTECTION

NEW LID Resources

LID Inventory

<http://clear.uconn.edu/tools/lid/index.htm>



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NEMO

CT LID Inventory

Locate low impact development practices around Connecticut and companies familiar with their installation.

[Back to Tools & Resources](#)

CT LID Inventory Home

Search by LID & by Town

Search for Company

Welcome to the LID stormwater treatment practice database!

Low impact development (LID) design was started in Maryland in the 1990's, to reduce the negative impacts of traditional development on receiving waterbodies. The goal of LID is the preservation of the predevelopment hydrology of a site. Rain gardens, swales, and pervious pavements are some of the stormwater treatment practices (STPs) that can be used to work towards this goal.

Two tools have been developed through the NEMO program at the University of Connecticut to promote the use of LID stormwater treatment practices in the state of Connecticut:

First, an **interactive map** shows the locations of various STPs around the state. Clicking on a town will return information from a database about LID practices in that town. A link to a one-page document (pdf) with more detailed information such as the installation date, installer, and engineer will also appear. Second, a **searchable database** is available that allows the user to search by town or county for engineering and construction companies familiar with LID practices. We hope that these tools can provide the information necessary for anyone who wants to start using these innovative techniques to protect our water resources!

Do you know of an alternative STP in place, or a company that is familiar with these practices and is not in the database? Please email **Michael Dietz**, NEMO stormwater quality specialist!

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NEMO is a program of the Center for Land Use Education and Research (CLEAR).

NEW LID Resources

LID Inventory

<http://clear.uconn.edu/t>

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Locate low impact development practices around Connecticut and companies familiar with their installation.

[Back to Tools & Resources](#)

CT LID Inventory Home

Search by LID & by Town

[Search for Company](#)

Welcome to the LID stormwater treatment practice

Low impact development (LID) design was started in Maryland in the 1990's, to reduce the impacts of traditional development on receiving waterbodies. The goal of LID is to reduce the predevelopment of the stormwater runoff.

Two tools have been developed to promote the use of LID. First, an interactive map will return information on a selected town or county for each LID practice. A PDF document (pdf) with details on each practice will also appear. Second, a list of companies that these tools can provide innovative techniques for. Do you know of an alternative practice that is not in the database?

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Locate low impact development practices around Connecticut and companies familiar with their installation.

[Back to Tools & Resources](#)

CT LID Inventory Home

[Search by LID & by Town](#)

[Search for Company](#)

Permeable pavements Located in the State of Connecticut

Zone	Sub-type	Town	Link to pdf
Commercial	Concrete block paver	East Hartford	CT0007
Commercial	Concrete block paver	Old Saybrook	CT0035
Residential	Plastic grid paver	Old Saybrook	CT0016
Commercial	Plastic grid paver	Montville	CT0017
Commercial	Concrete block paver	Groton	CT0018
Commercial	Plastic grid paver	Hamden	CT0026
Residential	Plastic grid paver	New Haven	CT0027
Commercial	Plastic grid paver	Farmington	CT0005

[New Search](#)

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Home | Workshops | Publications | News | National Network | CLEAR | Contact Us | Search

Locate low impact development practices around Connecticut and companies familiar with their installation.

[Back to Tools & Resources](#)

CT LID Inventory Home

[Search by LID & by Town](#)

[Search for Company](#)

Search by town

Clicking on a town on the map or from the pull-down menu will fill in the table below and show you all current LID practices in that town. A link to a detailed description (pdf) of each project will also appear.

Town:

Or, search by LID treatment practice statewide:

Practice:

LID Practices in the Town of Branford, CT

Type	Subtype	Address	County	Description
Bioretention rain garden	n/a	East Road	New Haven	CT0000
Bioretention rain garden	n/a	Route 20, Police Station	New Haven	CT0006
Bioretention rain garden	n/a	Endicott Drive	New Haven	CT0006

NEW LID Resources

N.E. LID Inventory

<http://erg.unh.edu/lid/index.asp>



UNHSC-NEMO Innovative Stormwater Management Inventory



Stormwater Center | NEMO | Environmental Research Group | UNH

Welcome to the UNHSC-NEMO Innovative Stormwater Management Inventory!

This searchable and amendable inventory is designed to highlight innovative BMP strategies, such as Low Impact Development (LID) designs, implemented throughout New England. LID design originated in Maryland in the 1990's to reduce the negative impacts of traditional development on watershed areas and receiving waters. The goal of LID is to limit generation of runoff from developed areas and preserve the natural or predevelopment hydrology of a site. Bioretention areas, rain gardens, gravel wetlands, and pervious pavements are some of the innovative stormwater best management practices (BMPs) that can be designed to mitigate the adverse impacts impervious surfaces.

There are two ways to search the inventory, by state or by stormwater management device. Clicking on a state or treatment device in the menus below will generate a page displaying information from the inventory. A more detailed report about a specific device can be viewed by clicking on "Detail" to the left of the device or location in question. There is also a unique update feature that allows users familiar with additional LID installations to add regional examples to the inventory. We hope that these tools can demonstrate real world examples of successful innovative BMP installations throughout the region. Lack of performance data or implementation examples is often the limiting factor of more widespread acceptance and use of innovative stormwater BMPs. We hope this information is useful for anyone who wants to start using these innovative techniques to protect our water resources!

If you know of any examples of BMP implementation that should be included in the new UNHSC-NEMO management inventory? Take a moment and visit

NEW LID Resources

N.E. LID Inventory

<http://erg.unh.edu/lid/index.asp>



UNHSC
Innovative Stormwater

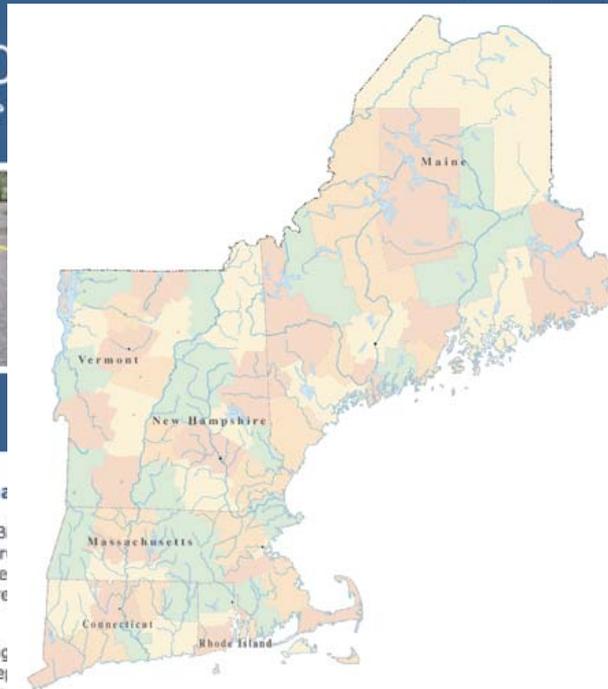


Welcome to the UNHSC-NEMO Innovative Stormwater Mana

This searchable and amendable inventory is designed to highlight innovative B throughout New England. LID design originated in Maryland in the 1990's to n and receiving waters. The goal of LID is to limit generation of runoff from deve Bioretention areas, rain gardens, gravel wetlands, and pervious pavements are can be designed to mitigate the adverse impacts impervious surfaces.

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If you know of any examples of BMP implementation that should be included in



Search by state

Clicking on a state on the map or from the menu below to zoom in on selected towns with innovative stormwater management practices.

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

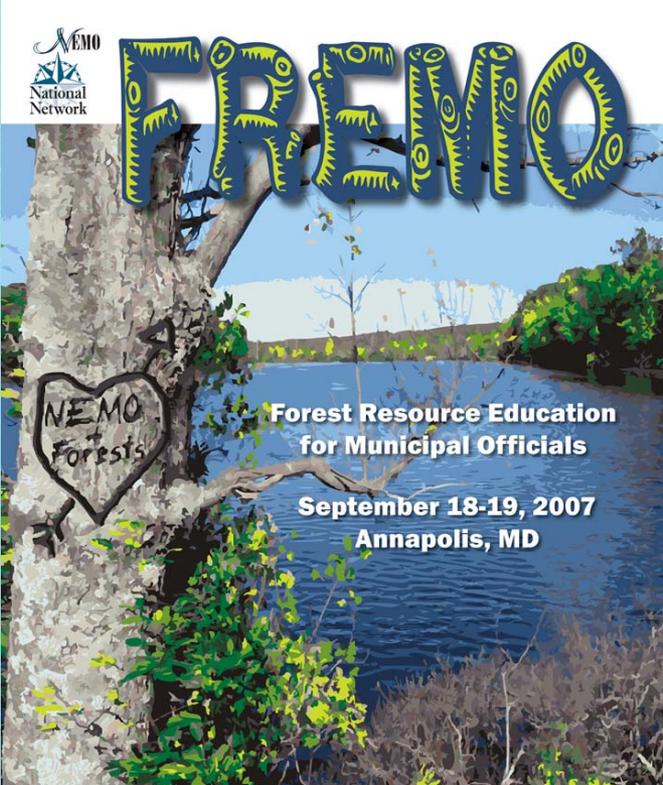
Or, search by LID treatment practice across New England:

Clicking on a treatment practice in the menu below will generate a table with all current locations for that practice throughout the New England area.

Bioretention/Rain Garden
Gravel/Constructed Wetland
Green Roof
Permeable Pavement
Swale Retrofit
Retention/Detention Pond Retrofit
All
Tree Filter
Other
Rain Cistern

Today's Presentation

- ▶ Quick & Dirty NEMO
- ▶ New & Noteworthy In NEMOLand
 - ▶ Planning Tools
 - ▶ Site Design Tools
 - ▶ New Workshops



The poster features a scenic background of a river flowing through a forest. In the foreground, a tree trunk has a heart-shaped carving with the words 'NEMO Forests' inside. The word 'FREMNO' is written in large, stylized, blue letters with yellow outlines, appearing to be carved into the tree. The 'National Network' logo is in the top left corner. Text on the right side of the poster provides details about the workshop.

NEMO
National Network

FREMNO

Forest Resource Education
for Municipal Officials

September 18-19, 2007
Annapolis, MD

A WORKSHOP TO HELP INCORPORATE FOREST PROTECTION
INTO NATIONAL NEMO NETWORK PROGRAMMING.

CSREES
UAS

FREMNO is a partnership between the National NEMO Network, the USDA Cooperative State Research, Education, and Extension Service (CSREES), and the U.S. Forest Service. National NEMO Network coordination is a program of the University of Connecticut Center for Land Use Education and Research (CLUEER). NEMO and FREMNO thank the Chesapeake Bay NEMO Program for their assistance with organizing the workshop.

The most important tool in the box



Note Blank Wall!

New Workshops

Expanding the Topics



FREMO:

Integrating the
Forest Resource
into NEMO
Programs



New Workshops

Expanding the Topics

FREMO:

Connecting
Foresters with
NEMOids



New Workshops

Expanding the Audience

- ▶ Contractors
- ▶ Developers
- ▶ Engineers
- ▶ Public Works Officials

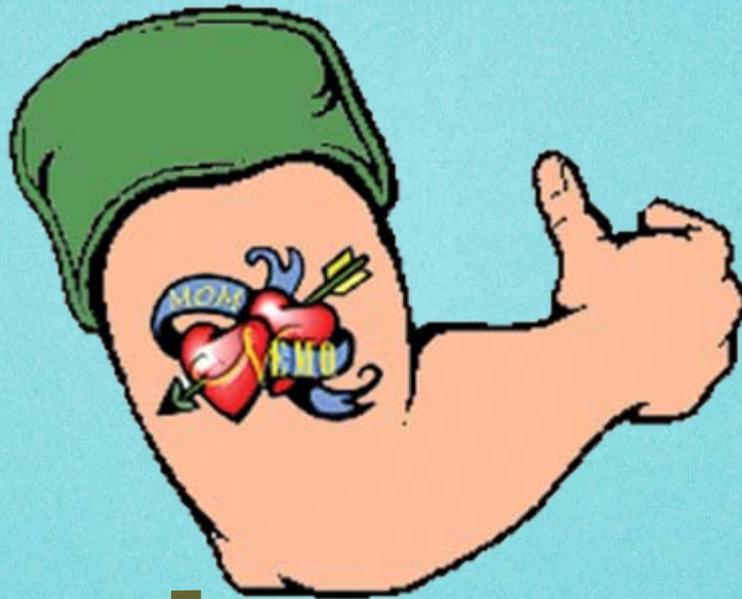
The SOP Manual:

Keeping our water out of

Jeopardy

Vehicle & Equipment Maintenance 	Facilities Maintenance 	Storm Drain System Maintenance 	Construction & Land Disturbances 
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500

Thanks!



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