

CT ECO

DEP Wetlands  
Training Program

<http://www.cteco.uconn.edu/>

Beth Doran, Howie Sternberg, Darcy Winther

# Purpose

Learn how to use the following CT ECO tools.

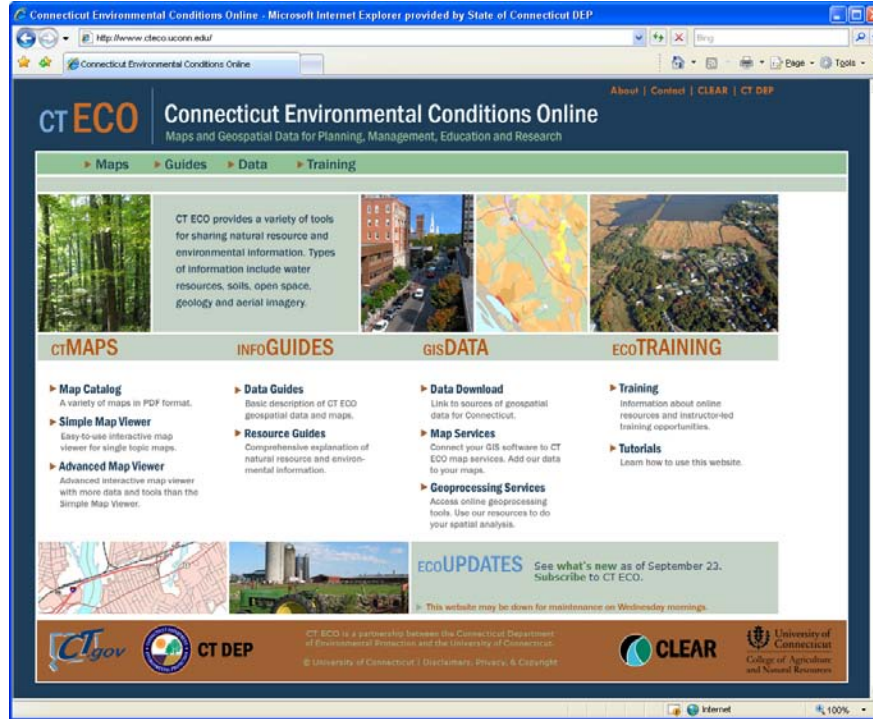
- Map Catalog
- Simple Map Viewer
- Advanced Map Viewer

You will use CT ECO after a live step-by-step demonstration. Please wait for when it is **Your Turn** to use CT ECO after each demo.

# CT ECO - A Partnership

## CT ECO

### CT DEP



### CLEAR



CT DEP

CT ECO is a partnership between the Connecticut Department of Environmental Protection and the University of Connecticut



CLEAR



# CT ECO - a variety of different tools

## Map Catalog



## Simple Map Viewer



## Advanced Map Viewer



## Map Services



**CT ECO Connecticut Environmental Conditions Online**  
Maps and Geospatial Data for Planning, Management, Education and Research

Navigation: [Maps](#) | [Guides](#) | [Data](#) | [Training](#)

CT ECO provides a variety of tools for sharing natural resource and environmental information. Types of information include water resources, soils, open space, geology and aerial imagery.

ctMAPS	INFOGUIDES	GISDATA	EcoTRAINING
<ul style="list-style-type: none"> <li><b>Map Catalog</b> A variety of maps in PDF format.</li> <li><b>Simple Map Viewer</b> Easy-to-use interactive map viewer for single topic maps.</li> <li><b>Advanced Map Viewer</b> Advanced interactive map viewer with more data and tools than the Simple Map Viewer.</li> </ul>	<ul style="list-style-type: none"> <li><b>Data Guides</b> Basic description of CT ECO geospatial data and maps.</li> <li><b>Resource Guides</b> Comprehensive explanation of natural resource and environmental information.</li> </ul>	<ul style="list-style-type: none"> <li><b>Data Download</b> Links to sources of geospatial data for Connecticut.</li> <li><b>Map Services</b> Connect your GIS software to CT ECO map services. Add our data to your maps.</li> <li><b>Geoprocessing Services</b> Access online geoprocessing tools. Use our resources to do your spatial analysis.</li> </ul>	<ul style="list-style-type: none"> <li><b>Training</b> Information about online resources and instructor-led training opportunities.</li> <li><b>Tutorials</b> Learn how to use this website.</li> </ul>

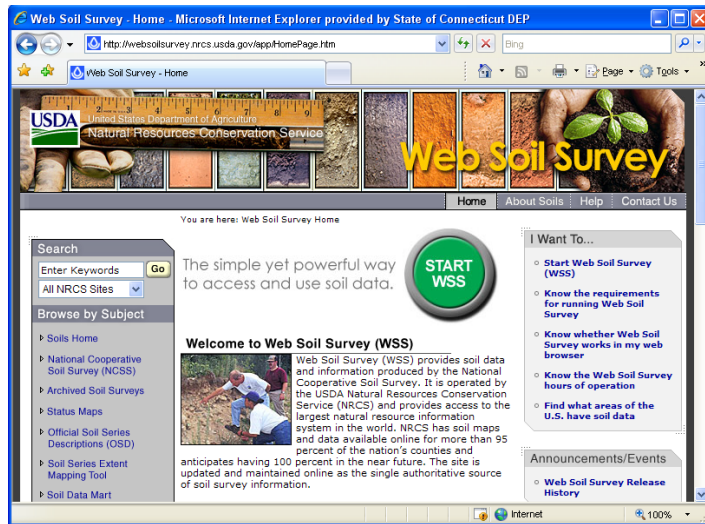
**EcoUPDATES** See what's new as of September 23. Subscribe to CT ECO.

Logos: CT.gov, CT DEP, CLEAR, University of Connecticut

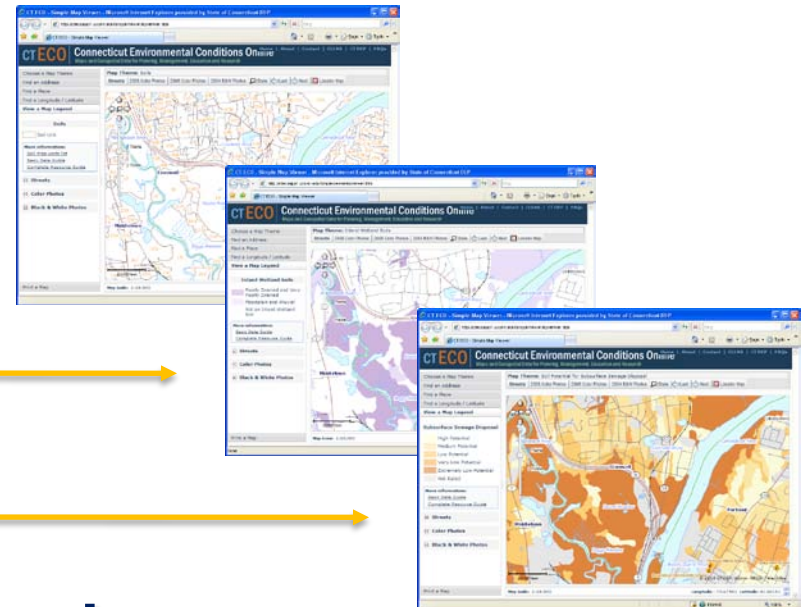


# About the soils data in CT ECO...

## Soil Web Survey



## CT ECO soil maps

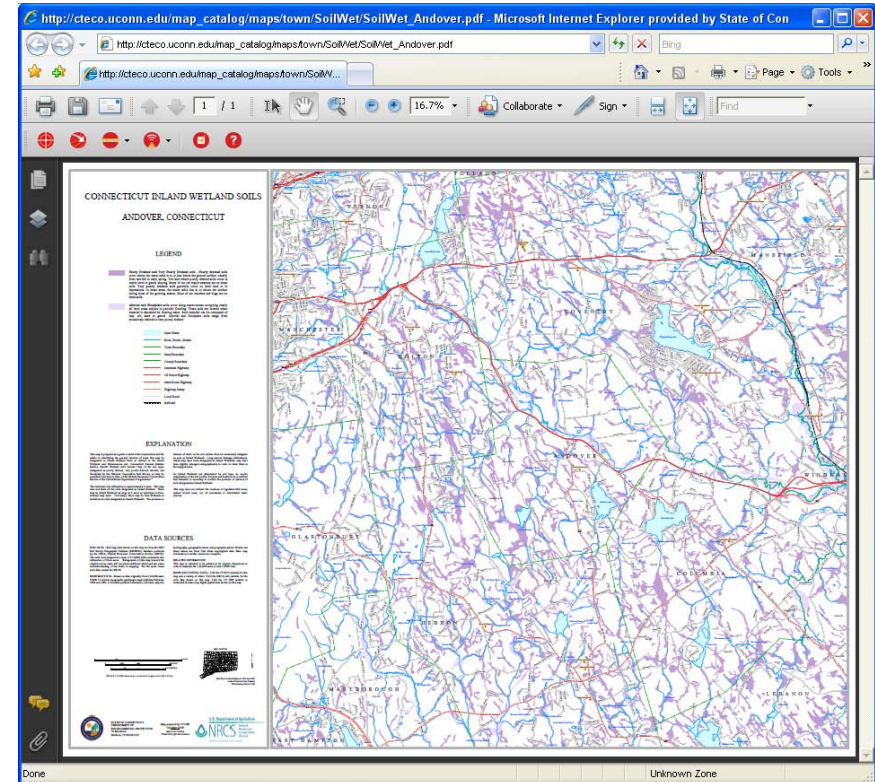


<http://websoilsurvey.nrcs.usda.gov>

**CT ECO uses the same data available from the NRCS Web Soil Survey website. CT ECO feeds off this official information. It does not replace it.**

# Map Catalog – Resource Maps

- **Thematic maps**
  - Soil map
  - Inland Wetland Soil
  - Basin map, etc.
- **Use on or off-line**
  - PDF format
  - Save on your PC
  - Prints available at <http://www.ctdepstore.com/>



# Map Catalog

## CT ECO Home page

Connecticut Environmental Conditions Online - Microsoft Internet Explorer provided by State of Connecticut DEP

http://www.cteco.uconn.edu/

Connecticut Environmental Conditions Online

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## Map Catalog

# Map Catalog

## Launch Page

Town map section - - - - -

Map Catalog

A variety of maps in PDF format that require Adobe Reader to view. Full-size printed copies are available from the DEP Store.

Choose a Town

Andover

Frequently Asked Questions

CTECO FAQ's

Map Name	Map Info	Scale	Size	Last Updated	File Size
Contour Map	Data Guide	varies	34 x 30	4/7/2010	3.3 - 30.2 Mb
DEP Property	Data Guide	1:24,000	48 x 36	4/19/2010	1.7 - 2.3 Mb
Natural Diversity Data Base Areas	Data Guide	1:24,000	48 x 36	6/1/2010	1.2 - 3.2 Mb
Natural Diversity Data Base Areas (Small)	Data Guide	varies	8.5 x 11	8/18/2010	3.0 - 11.0 Mb
Natural Drainage Basin With Contours	Data Guide	1:24,000	48 x 36	1/19/2010	14.4 - 56 .0Mb
Natural Drainage Basin With Shaded Relief	Data Guide	1:24,000	48 x 36	1/19/2010	23.4 - 63.5 Mb
Orthophoto 2008	Data Guide	varies	34 x 30	8/25/2010	35.2 - 37.7 Mb
Protected Open Space Mapping	Data Guide	1:24,000	48 x 36	1/19/2010	1.5 - 5.4 Mb
Q3 Flood Zone Map	None	varies	34 x 30	9/8/2010	21.2 - 37.0 Mb
Soil	Data Guide	1:24,000	48 x 36	11/5/2009	6.4 - 16.7 Mb
Soil Drainage Class	Data Guide	1:24,000	48 x 36	4/6/2010	3.2 - 9.0 Mb
Soil Farmland	Data Guide	1:24,000	48 x 36	10/28/2009	1.7 - 7.3 Mb
Soil Flooding Class	Data Guide	1:24,000	48 x 36	4/6/2010	7.2 - 51.4 Mb
Soil Hydric	Data Guide	1:24,000	48 x 36	10/28/2009	1.7 - 6.0 Mb
Soil Inland Wetland	Data Guide	1:24,000	48 x 36	10/28/2009	1.8 - 6.1 Mb
Soil Parent Material	Data Guide	1:24,000	48 x 36	11/17/2009	3.2 - 9.4 Mb
Soil Subsurface Sewage Disposal Potential	Data Guide	1:24,000	48 x 36	10/28/2009	3.2 - 9.4 Mb
Street Map	Data Guide	varies	34 x 30	8/20/2010	4.5 - 30.3 Mb
Surficial Materials	Data Guide	1:24,000	48 x 36	8/25/2009	6.7 - 39.8 Mb
Water Quality Classifications	Data Guide	1:24,000	48 x 36	8/12/2010	1.0 - 3.4 Mb

Choose a town

Maps available for a town

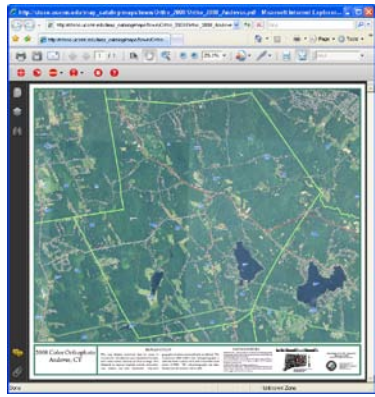
FAQ's



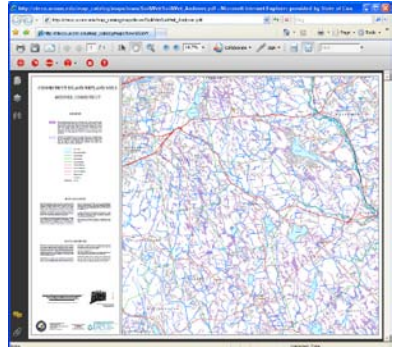
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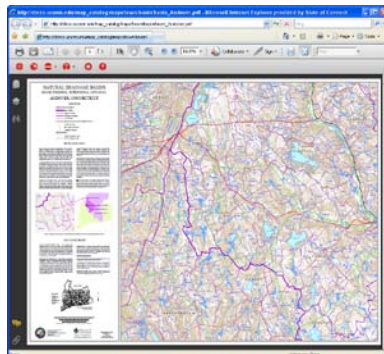
## Orthophoto 2008



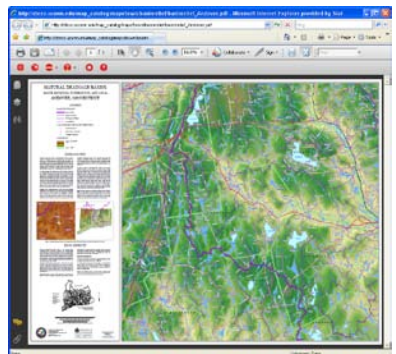
## Inland Wetland Soils



## Natural Drainage Basins with Contours



## Natural Drainage Basins with Shaded Relief



# Map Catalog

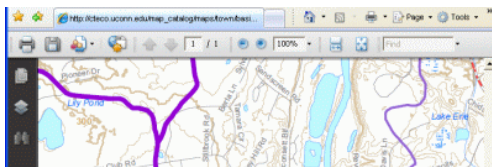
## • Panning and Zooming



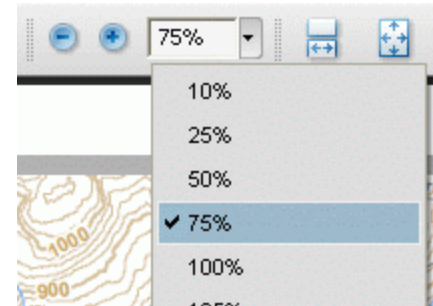
**Click to zoom in**



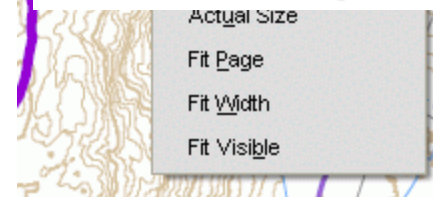
**Click to zoom out**



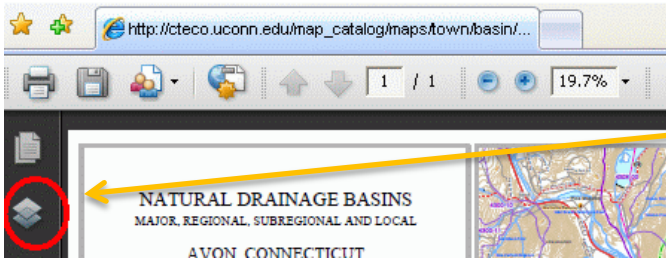
**Drag the mouse on the map or use the slider bars**



**Choose a % to zoom in (100% represents the scale the map is intended to be viewed and used)**



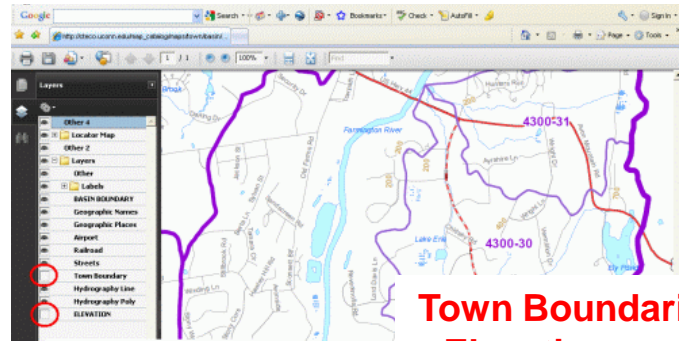
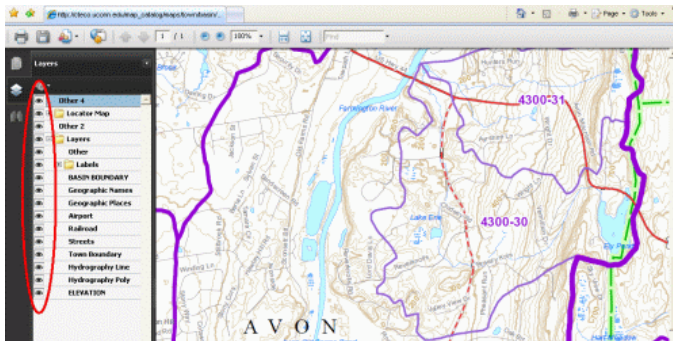
# Map Catalog



**Click the "Layers" icon to list the GIS data layers in the PDF map**

**All layers on**

**2 layers off**



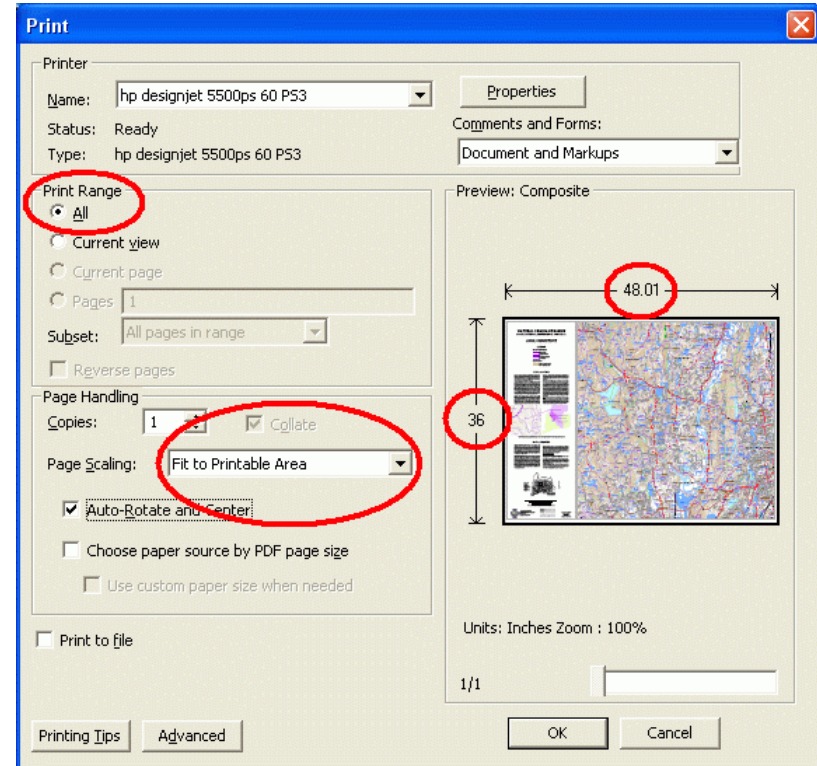
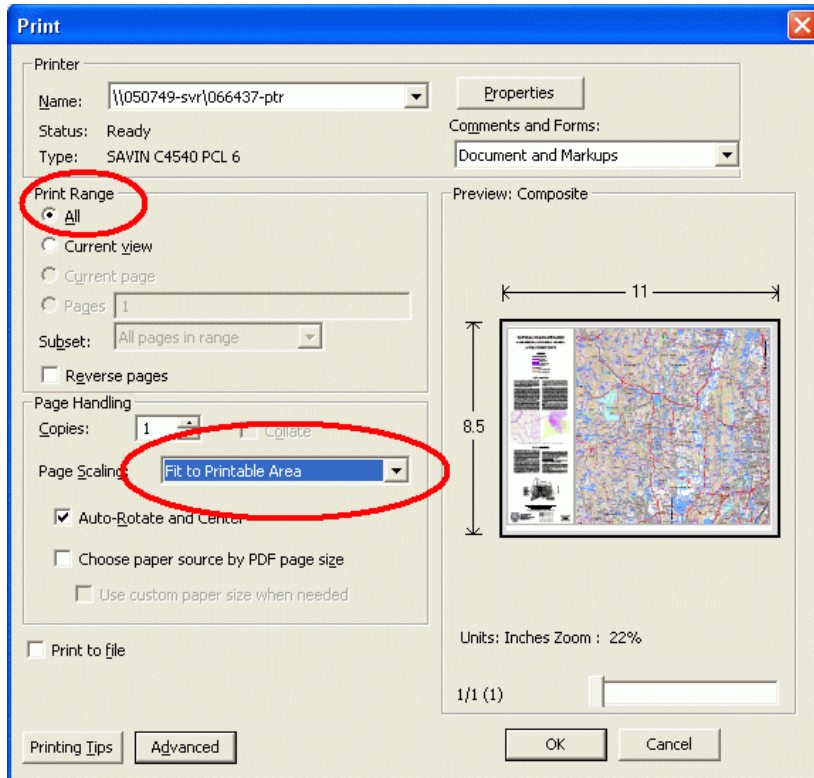
**Town Boundaries and Elevation contours NOT shown**

- Streets
- Town Boundary
- LOCAL DRAINAGE BASIN DIRECTION
- Hydrography Line
- Hydrography Poly
- ELEVATION

- Streets
- Town Boundary
- LOCAL DRAINAGE BASIN DIRECTION
- Hydrography Line
- Hydrography Poly
- ELEVATION

# Map Catalog

- Print entire map (with legend)

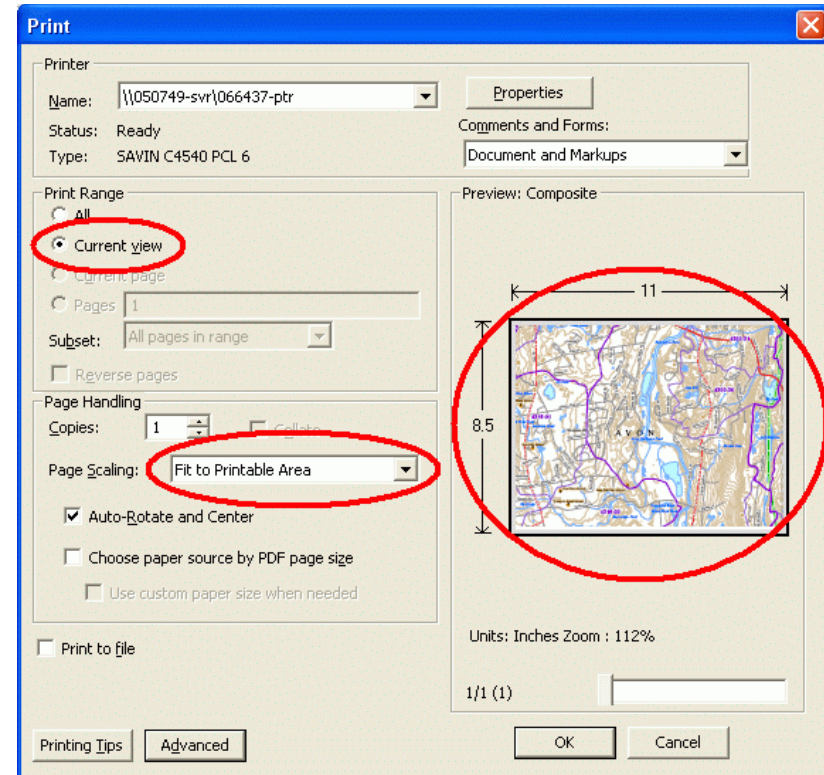
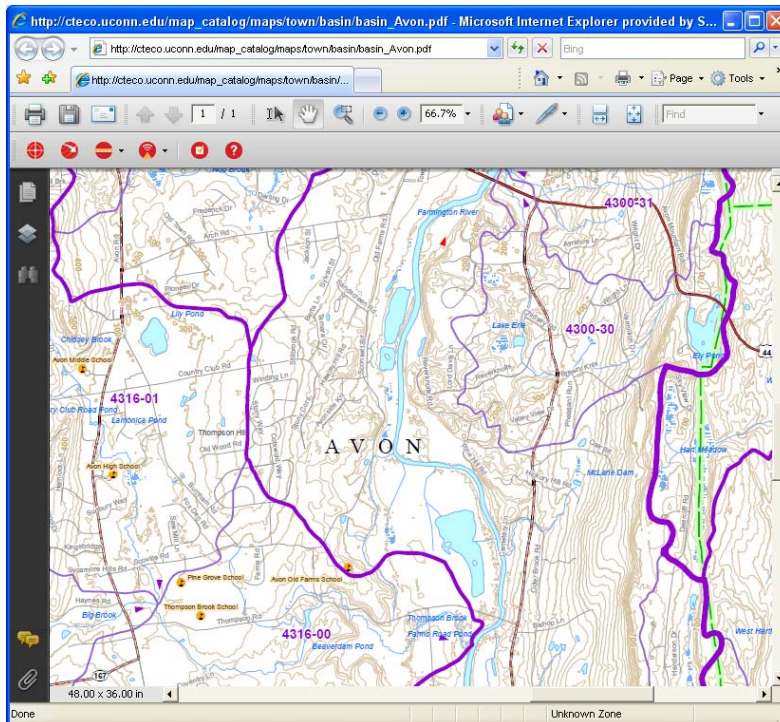


**Regular size (8 1/2" x 11")**

**Arch E size (36" x 48")**

# Map Catalog

- Print what you're currently viewing after you zoomed in



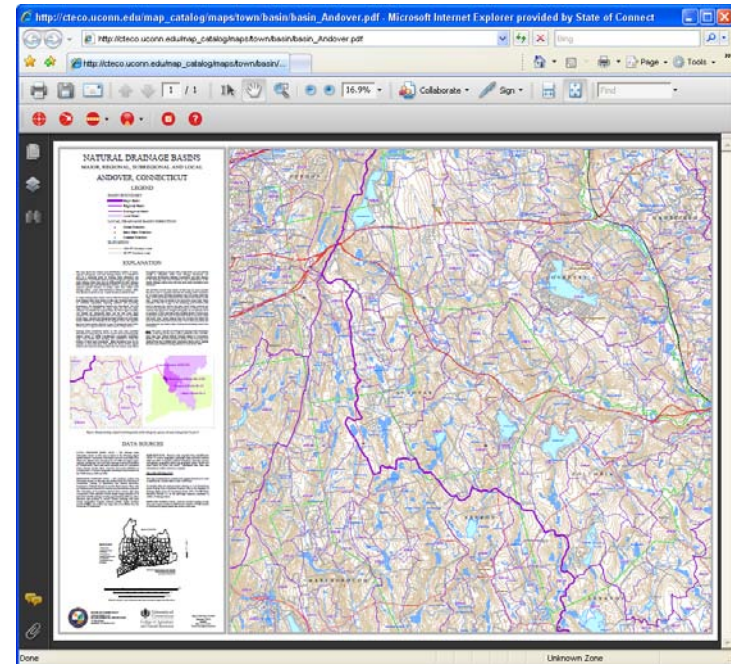
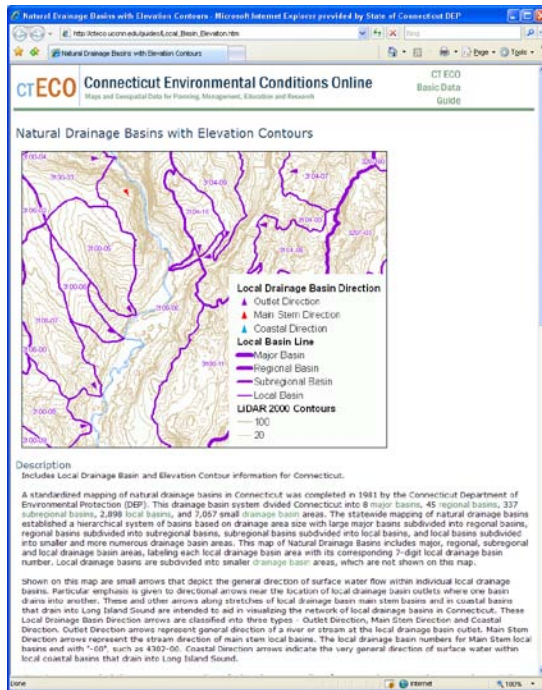
**Regular size (8 1/2" x 11")**

# Map Catalog

## Demonstration

Refer to Data Guide

Using the map



# Before we begin...

## CT ECO Home page

If you get lost, click the CT ECO logo to return to the home page.

# Map Catalog

## Your Turn

Connecticut Environmental Conditions Online - Microsoft Internet Explorer provided by State of Connecticut DEP

http://www.cteco.uconn.edu

Connecticut Environmental Conditions Online

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Internet 100%

Click on  
Map Catalog  
to begin...

[www.cteco.uconn.edu](http://www.cteco.uconn.edu)



# Simple Map Viewer

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► Maps ► Guides ► Data ► Training

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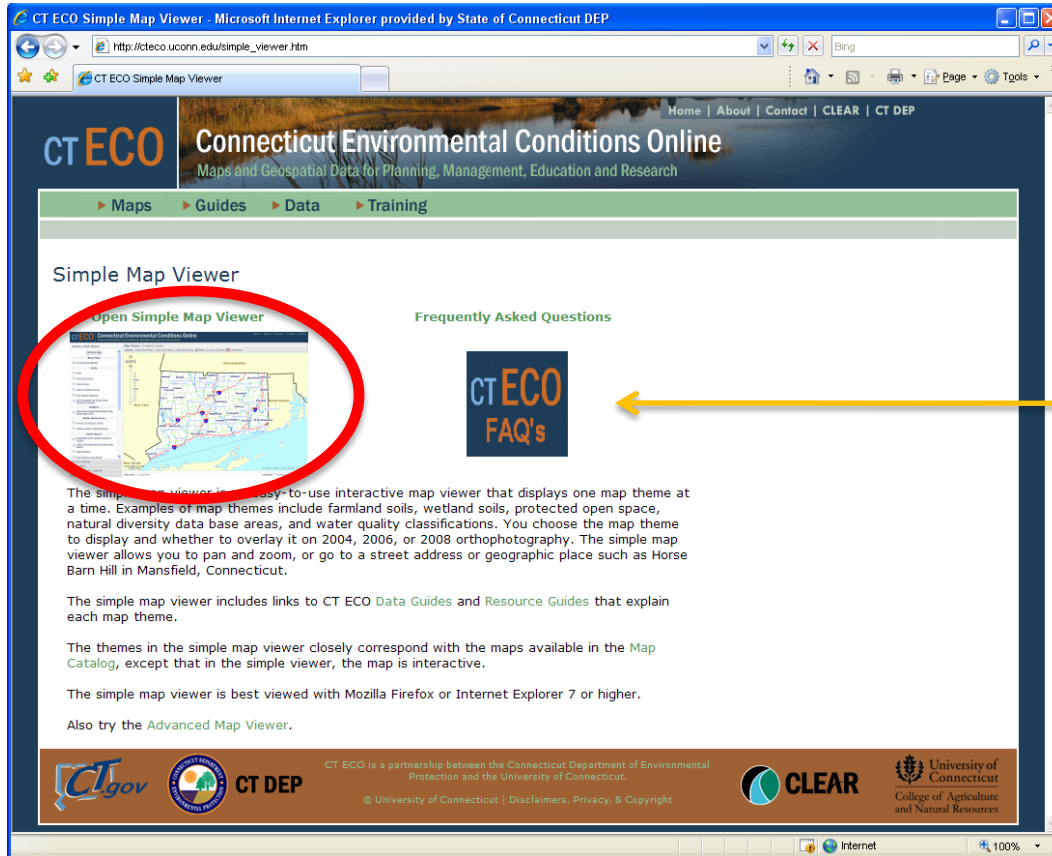
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## Simple Map Viewer

# Simple Map Viewer

## Launch Page

Open viewer



FAQ's

# Simple Map Viewer

## Tools

The screenshot shows a web-based map viewer interface for Connecticut. The interface is divided into several sections:

- Map Theme Selection:** A sidebar on the left titled "Choose a Map Theme" allows users to select different map layers. The "Base Map" section is currently selected, showing "Connecticut Streets" as the active theme. Other options include "Soils", "Water Resources", and "Open Space".
- Map Theme:** The top of the map area displays "Map Theme: Connecticut Streets". Below this, there are tabs for "Streets", "2008 Color Photos", and "2006 Color".
- Navigation and Control:** A "Button Bar" at the top right includes a "State" button, "Last" and "Next" navigation arrows, and a "Locator Map" button. On the left side, "Navigation Arrows" (up, down, left, right) and a "Zoom Bar" (vertical slider) are visible.
- Map View Area:** The central part of the interface is the "Map View Area", which displays a map of Connecticut with various geographical features, including cities, rivers, and roads. A "Locator Map" inset in the top right corner shows the state's outline with a red box indicating the current map's location.
- Map Scale:** A "Map Scale" bar is located at the bottom left, showing a scale of 15.78 miles.
- Map Contents:** A "Map Contents" menu is located in the sidebar, listing various map layers and their visibility status.
- Map Information:** At the bottom, the "Map Scale" is listed as 1:1,000,000, and the "Longitude" and "Latitude" coordinates are displayed as -72.38167 and 42.13602, respectively.

# Simple Map Viewer

## Choose a Map Theme

The screenshot displays the 'Choose a Map Theme' web interface. On the left, a sidebar lists various map themes under categories like 'Base Map', 'Soils', 'Habitat', 'Water Resources', and 'Open Space'. The 'Farmland Soils' theme is selected, indicated by a red circle around its radio button. A red box highlights the 'Refresh Map' button at the top of the sidebar. The main map area shows a map of Lebanon, Connecticut, with various soil types color-coded in yellow, green, and brown. A red box highlights the text 'Map Theme: Farmland Soils' at the top of the map area, with an arrow pointing to it from the text 'Name of Current Map Theme'. The map includes labels for 'Lebanon Elementary', 'Lebanon Middle', 'Lyman Memorial High', 'Lockes Pond', 'Pitchers Pond', and 'Bourn Hill'. A scale bar indicates 2000 feet, and the map scale is 1:24,000. The map's longitude is -72.24114 and latitude is 41.64663.

# Simple Map Viewer

## Data and Resource Guides

Choose a Map Theme

Find an Address

Find a Place

Find a Longitude / Latitude

**View a Map Legend**

**Farmland Soils**

- Prime
- Statewide Important
- Locally Important
- Not a Farmland Soil

**More information:**

- [Basic Data Guide](#)
- [Complete Resource Guide](#)

- Streets
- Color Photos
- Black & White Photos

Print a Map

Map Theme: Farmland Soils

Streets | 2008 Color Photos | 2008 Color Photos | 2004 B&W Photos | State | Last | Next | Locator Map

CT ECO Connecticut Environmental Conditions Online

Farmland Soils

2000 feet

Map Scale: 1:24,000

CT ECO Connecticut Environmental Conditions Online

Farmland Soils

**Basic Data Guide**

Description

Farmland Soils includes land that is defined as prime, unique, or farmland of statewide or local importance based on soil type, in accordance with the Code of Federal Regulations, CFR title 7, part 587, 32-106 location and extent of the most suitable land for producing food, feed, fiber, forage, and other crops and is available for these uses. For additional documentation including a description of the map legend for Farmland Soils, refer to the CT ECO Complete Resource Guide for Farmland Soils.

Purpose

Farmland Soils can be used to identify the location and extent of lands that have productive soils. These lands may qualify to be protected in the Federal Farm and Ranch Lands Protection Program (FRPP) as reauthorized in the Farm Security and Rural Investment Act of 2002 (Farm Bill) to protect working agricultural land from conversion to nonagricultural uses and the Connecticut Department of Agriculture, Farmland Preservation Program's goal of securing a food and fiber producing land resource base for the future generations in Connecticut.

Legend Description

The legend describes three types of Prime Farmland Soils. All other soils, typically shown as a white background, are not Prime Farmland Soils.

**Prime Farmland Soils**

Soils that have the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oil seed crops, and are also available for these uses (the land could be cropland, pastureland, range-land, forestland, or other land, but not urban built-up land or water). It has the soil quality, growing season and moisture supply needed to economically produce sustained high yields or crops when tilled and managed, including water management, according to acceptable farming practices.

CT DEP

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# Simple Map Viewer

## Add background aerial photography

**Choose a Map Theme**

**Base Map**

Connecticut Streets

**Soils**

Soils

Farmland Soils

Hydric Soils

Inland Wetland Soils

Soil Parent Material

Soil Potential for Subsurface Sewage Disposal

**Habitat**

Natural Diversity Data Base Area, December 2009

**Water Resources**

Aquifer Protection Areas

Water Quality Classifications

**Open Space**

Protected Open Space Mapping

Find an Address

Find a Place

Find a Longitude / Latitude

View a Map Legend

Print a Map

**Map Themes: Farmland Soils**

Street | **2008 Color Photos** | 2006 Color Photos | 2004 B&W Photos | State | Last | Next | Locator Map

© 2009 CTDEP, UConn, NRCS, Tele Atlas

Map Scale: 1:12,000

Longitude: -72.22419 Latitude: 41.64091

# Simple Map Viewer

## Map Theme visible only at certain scales

The screenshot displays a web-based map viewer interface. On the left, a navigation toolbar contains several icons, including a 'Theme' icon highlighted with a red circle. A red callout box labeled 'Intended Map Scale' points to the top of this icon, and another red callout box labeled 'Theme Visible Bar' points to the bottom of the icon. Below the toolbar is a vertical zoom bar, also highlighted with a red callout box labeled 'Zoom Bar'. The main map area shows a 'Farmland Soils' theme overlaid on a map of southern New England. A red callout box labeled 'Intended Map Scale' points to the top of the map, and another red callout box labeled 'Theme Visible Bar' points to the bottom of the map. The map includes various geographical features such as rivers, lakes, and towns. The interface also includes a sidebar with various map layers and a search bar.

# Simple Map Viewer

## Find an Address

Choose a Map Theme  
**Find an Address**  
 Street Address or Intersection:  
  
 Or Zip Code:  
  
   
 Were you looking for:  
 69 ELM ST, 06106  
 89 ELM ST, 06106  
 99 ELM ST, 06106  
 39 ELM ST, 06106  
 49 ELM ST, 06106  
 45 ELM ST, 06106  
 35 ELM ST, 06106  
 3 ELM ST, 06106

## Find Lat/Long

Choose a Map Theme  
**Find a Longitude / Latitude**  
 Decimal Degrees  
 Longitude:  
  
 Latitude:  
  
   
 OR  
 Degrees Minutes Seconds  
 Longitude:  
  
  
  
 Latitude:

## Find a Place (town, lake, river, hill, etc.)

Choose a Map Theme  
**Find a Place**  
 Place name:  
  
   

Place	Town
Round Hill	East Granby
Round Hill	East Hartford
Round Hill	Easton
Round Hill	Fairfield
Round Hill	Greenwich
Round Hill	Lisbon
Round Hill	Middletown
Round Hill	Shelton
Round Hill	Woodbridge
Round Hill Brook	Middletown
Round Hill Brook	Shelton
Round Hill Pond	Bethany
Round Hill Pond	Lisbon

Examples  
 Town: Hartford  
 Village: Winsted  
 River: Naugatuck



# Simple Map Viewer

## Print a map with legend

Choose a Map Theme  
 Find an Address  
 Find a Place  
 Find a Longitude / Latitude  
 View a Map Legend  
 Print a Map

Enter title for map:

**Print Preview**

For best results print a single theme. Maps with photographs in the background may not print as expected.

**Map Theme: Aquifer Protection Areas**  
 Streets | 2008 Color Photos | 2006 Color Photos | 2004 B&W Photos | State | Last | Next | Locator Map

Map Scale: 1:24,000  
 Longitude: -72.85626 Latitude: 41.50642

map

CTECO Connecticut Environmental Conditions Online  
 Maps and Geospatial Data for Planning, Management, Education and Research

My Map

This map is intended for general planning, management, education, and research purposes only. Data shown on this map may not be complete or current. The data shown may have been compiled at different times and at different map scales, which may not match the scale at which the data is shown on the map.

legend

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My Map

**AQUIFER PROTECTION AREAS**

- Final Adopted Aquifer Protection
- Final Aquifer Protection
- Interim Aquifer Protection

**More Information:**  
 Basic Data System  
[http://cteco.ct.gov/arcgis/rest/services/Aquifer\\_Protection\\_Areas](http://cteco.ct.gov/arcgis/rest/services/Aquifer_Protection_Areas)  
 Complete Resource Guide  
[http://cteco.ct.gov/arcgis/rest/services/CT\\_ECO\\_Resource\\_Guide/Aquifer\\_Protection\\_Areas.pdf](http://cteco.ct.gov/arcgis/rest/services/CT_ECO_Resource_Guide/Aquifer_Protection_Areas.pdf)

**Streets**

- Interstate
- State Route
- State Road
- State
- County
- Local

**Hydrography**

- Water
- Canal or Shore Line
- Dam
- Water Connector

**Political Boundaries**

- State
- County
- Town

**Color Themes**

- 2008 2007 Color Desktop
- 2006 2005 Color Desktop
- Black & White Photos
- 2004 Black & White Desktop

# Simple Map Viewer

## Demonstration



- At 123 Mystreet, Mytown
- Owner wants to install a pool
- Need to know if there is significant slope toward a nearby wetland and watercourse.

# Simple Map Viewer

## Your Turn

Connecticut Environmental Conditions Online - Microsoft Internet Explorer provided by State of Connecticut DEP

http://www.cteco.uconn.edu

Connecticut Environmental Conditions Online

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CT ECO provides a variety of tools for sharing natural resource and environmental information. Types of information include water resources, soils, open space, geology and aerial imagery.

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A variety of maps in PDF format are available for download.

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Easy-to-use interactive map viewer for single topic maps.

Advanced Map Viewer  
Advanced interactive map viewer for multiple topics.

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Internet 100%

Click on the Simple Map Viewer to begin...

[www.cteco.uconn.edu](http://www.cteco.uconn.edu)

# Advanced Map Viewer

## CT ECO Home page

Connecticut Environmental Conditions Online - Microsoft Internet Explorer provided by State of Connecticut DEP

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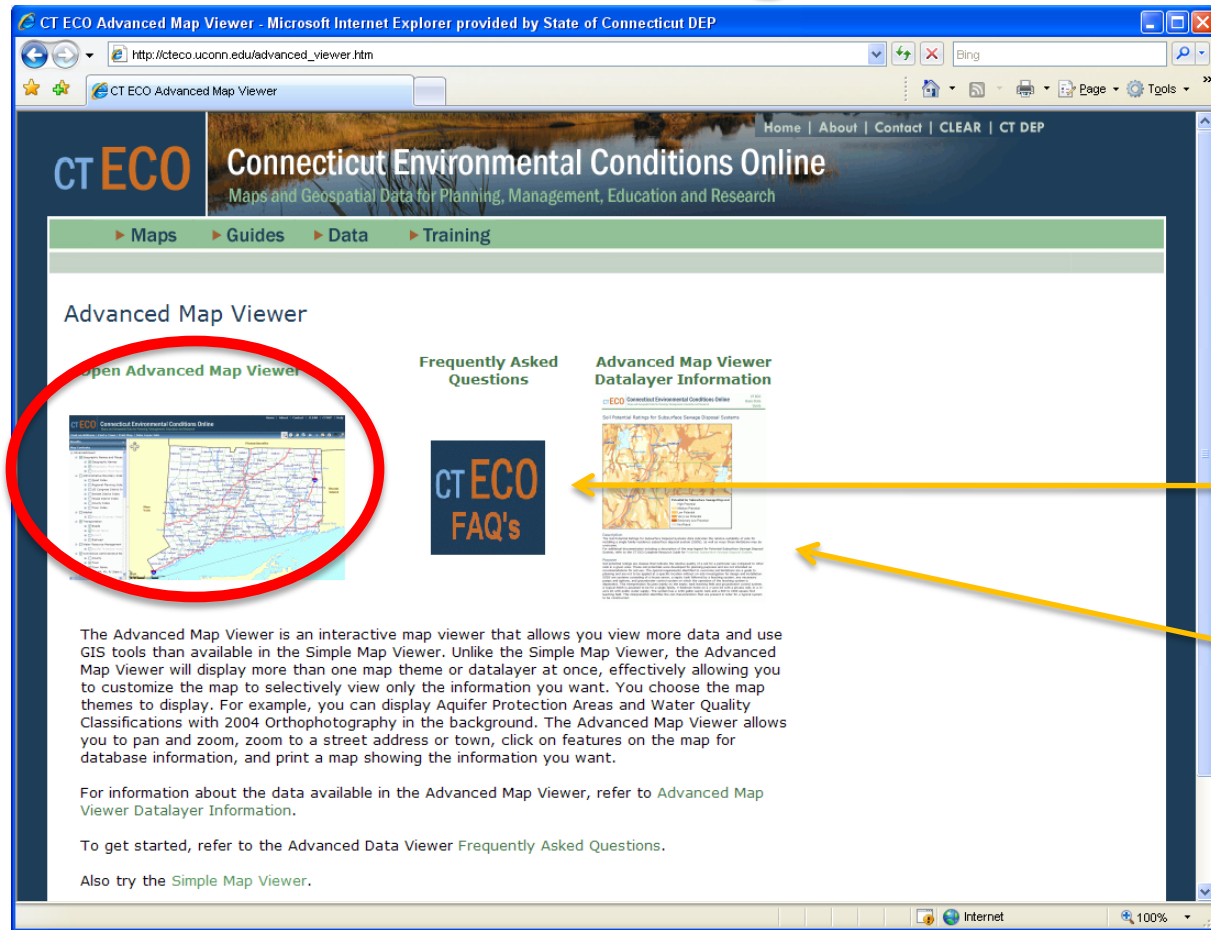
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**Advanced  
Map Viewer**

# Advanced Map Viewer

## Launch Page

Open viewer

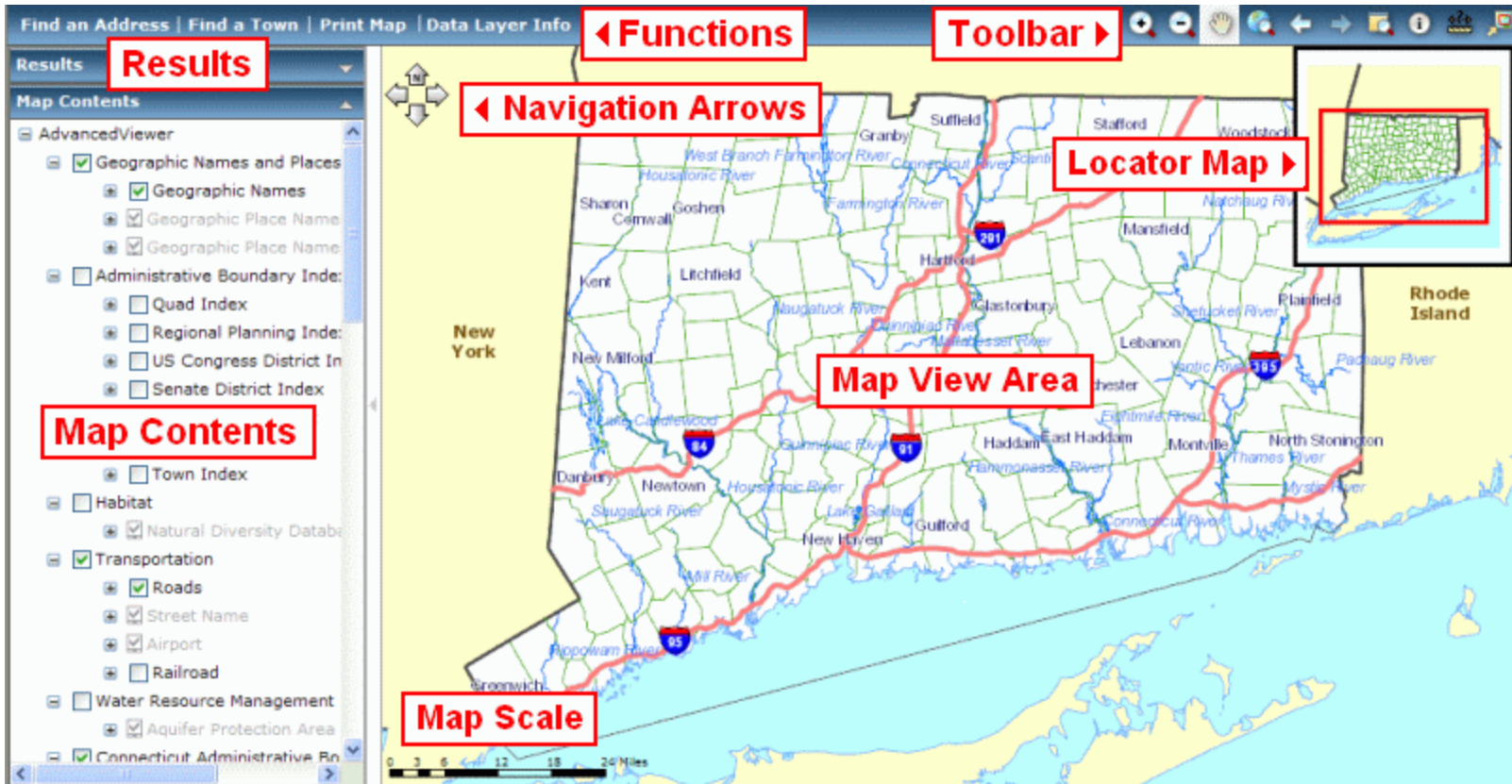


FAQ's

Data Guides

# Advanced Map Viewer

## Tools



# Advanced Map Viewer

## How to turn layers on and off

Use 2 check boxes

Group →

Layer →

**Map Contents**

- LiDAR 2000 Contours
- Soils
  - Soils
  - Farmland Soils
  - Hydric Soils
  - Inland Wetland Soils
  - Parent Material
  - Potential for Subsurface Sewage
- Geology
  - Surficial Materials
  - Imagery and Topo
  - Hillshade 2000
  - Hillshade 2000, for over imagery
  - Ortho Photo 2004 BW
  - Ortho Photo 1990 BW
  - Ortho 2008 NAIP Color
  - Ortho 2008 NAIP Infrared
  - Ortho 2006 NAIP Color
  - Ortho 2008 Urban Area Color
  - Ortho 2004 Coast Color
  - Ortho 2005 Coast Infrared
  - Ortho 2004 Coast Infrared
  - Shaded Relief

**Callout 1:** Grayed out data does not display until the map is zoomed in or out to the correct scale.

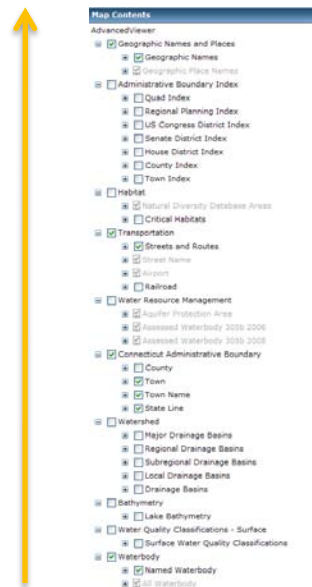
**Callout 2:** Step 2. Turn on the datalayer group. Once this is checked, your map will automatically redraw.

**Callout 3:** Step 1. Turn on your desired datalayer by checking the box.

# Advanced Map Viewer

## Layer drawing order

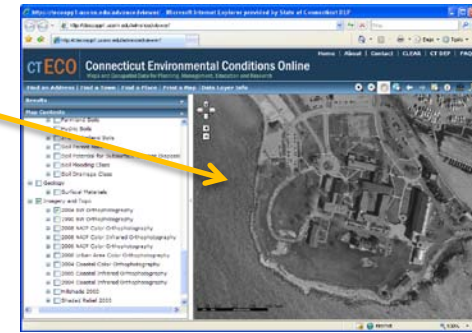
Layers on top are the last to draw and might cover others lower on the list



First to draw

Imagery and Topo

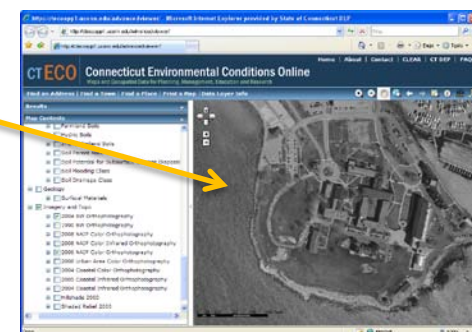
- 2004 BW Orthophotography
- 1990 BW Orthophotography
- 2008 NAIP Color Orthophotography
- 2008 NAIP Color Infrared Orthophotography
- 2006 NAIP Color Orthophotography
- 2008 Urban Area Color Orthophotography



Imagery and Topo

- 2004 BW Orthophotography
- 1990 BW Orthophotography
- 2008 NAIP Color Orthophotography
- 2008 NAIP Color Infrared Orthophotography
- 2006 NAIP Color Orthophotography
- 2008 Urban Area Color Orthophotography

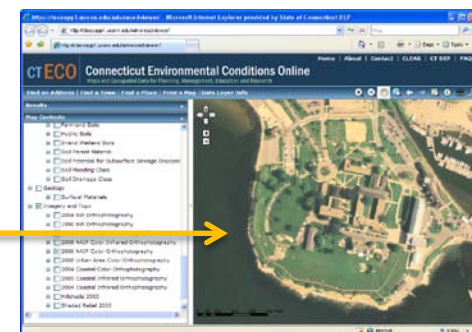
Covered →



Imagery and Topo

- 2004 BW Orthophotography
- 1990 BW Orthophotography
- 2008 NAIP Color Orthophotography
- 2008 NAIP Color Infrared Orthophotography
- 2006 NAIP Color Orthophotography
- 2008 Urban Area Color Orthophotography

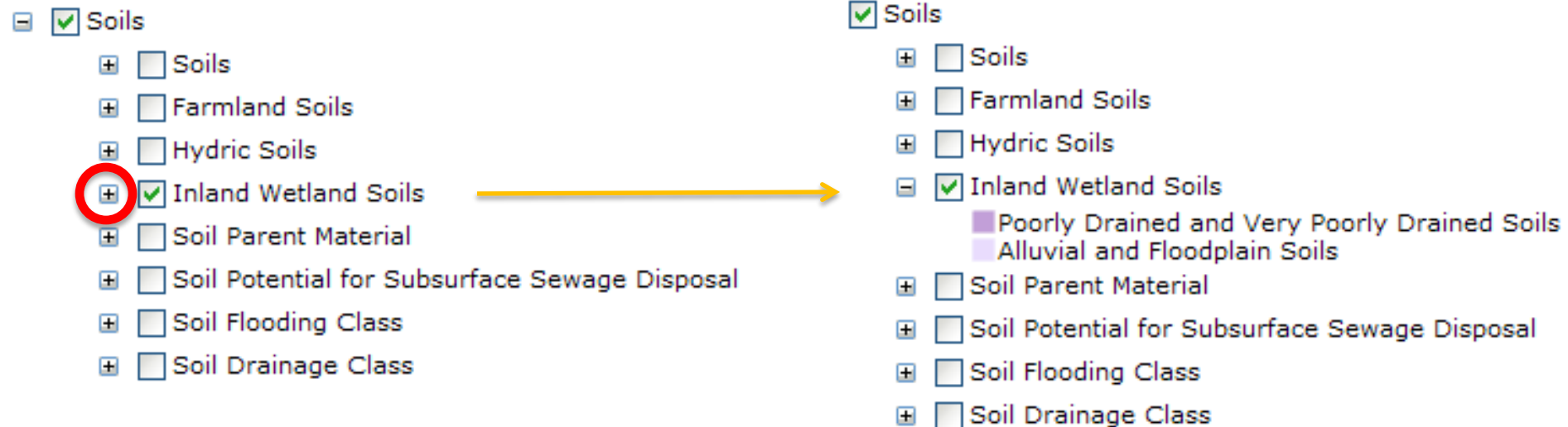
Not covered →





# Advanced Map Viewer

## How to open the legend



**Click + button to open and show legend**

# Advanced Map Viewer

Click "Find an Address"  
to open menu...

Results - lists matching  
addresses

Find an Address | Find a Town | Print Map | Data Lay

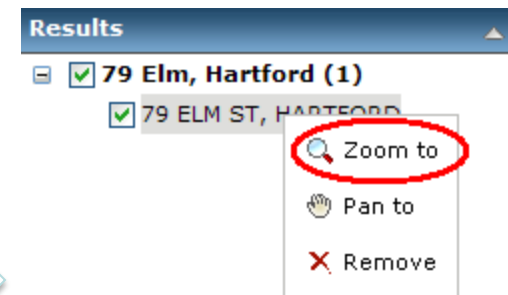
Results | Find an Address

Street or Intersection: 79 Elm St

Zone: Hartford

Find

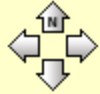
2. Press Find



1. Enter Street name and  
Town (not a zip code)

Right-click on "79  
Elm Street" and then  
choose "Zoom to"

# Advanced Map Viewer



- Zoom in  
- Zoom out

**Pan North-South-East-West**  
**Zoom In – Out (centered)**



**Zoom In – Out (anywhere you want)**



**Pan**



**Zoom out to Connecticut**



**Measure distance or area**

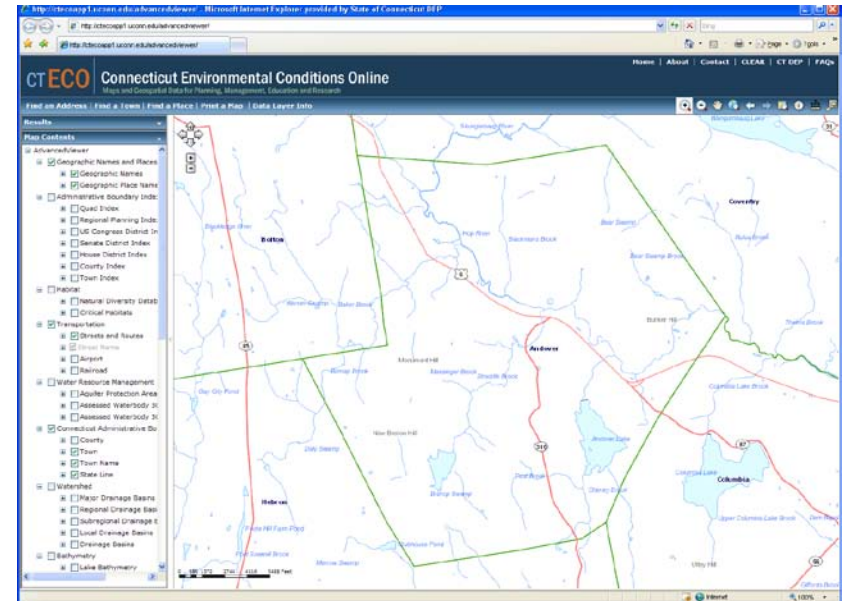


**Get Information about a map feature**

# Advanced Map Viewer



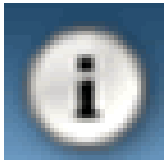
**Click the Zoom In tool**



**Drag a box around the area you want to zoom in to...**

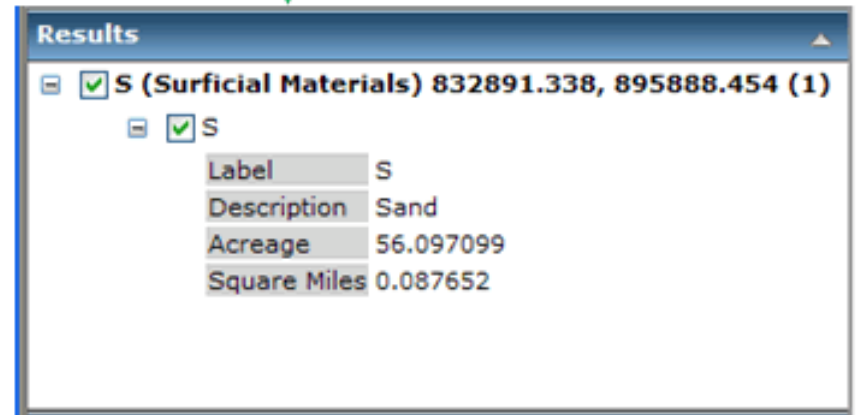
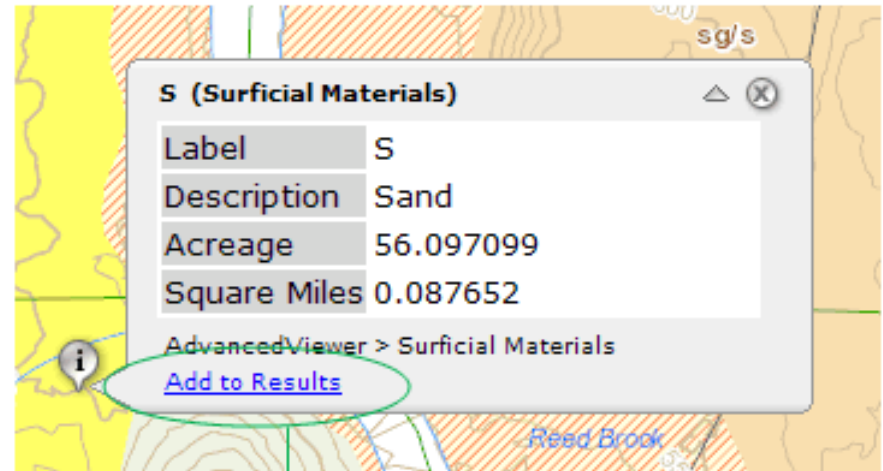
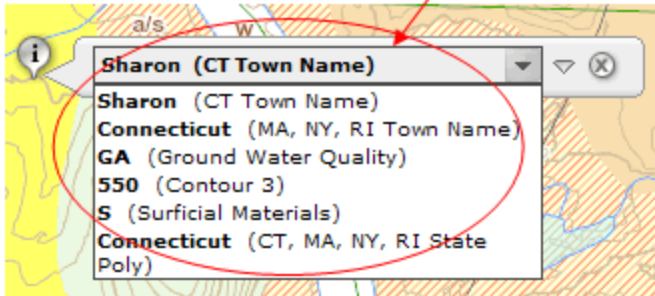
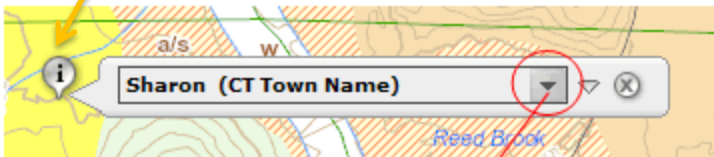
- **CLICK** mouse at one corner of zoom in area (e.g. upper left)
- **HOLD** down mouse button while you...
- **DRAG** mouse to opposite corner
- **RELEASE** mouse at opposite corner (e.g. lower right)

# Advanced Map Viewer

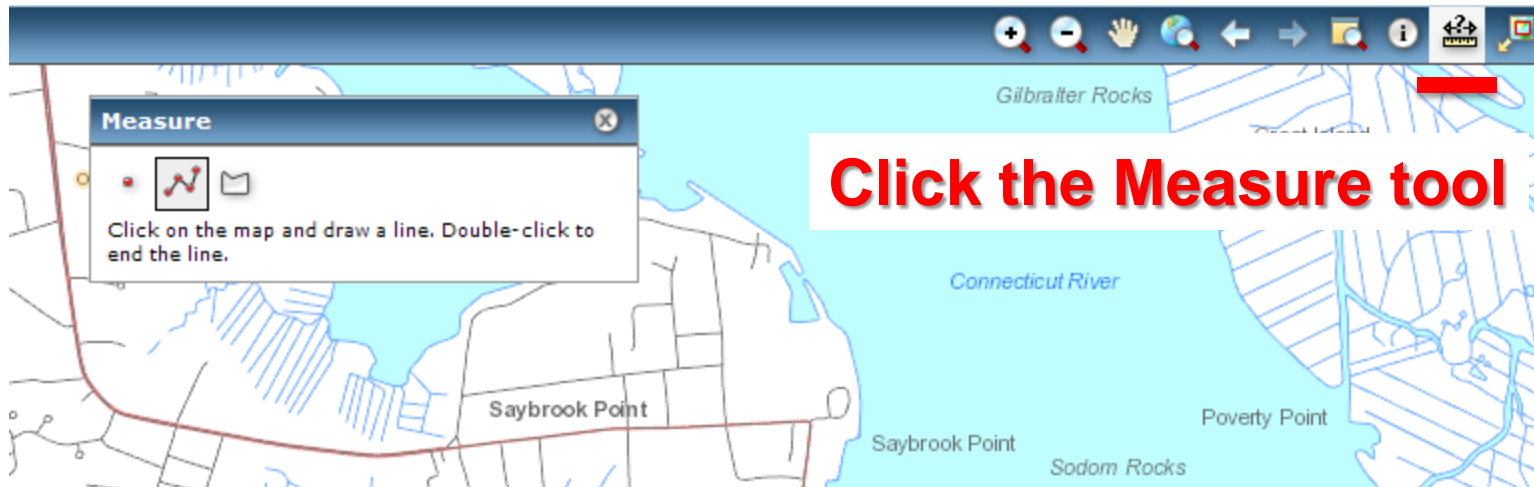


## Get Information (Identify tool)

Click on map



# Advanced Map Viewer



# Advanced Map Viewer

## Demonstration



- Plum Gulley Brook, South Windsor
- Citizen claims illegal fill
- Intense land use development over the years

# Advanced Map Viewer

## Your Turn

Click on the  
Advanced  
Map Viewer  
and begin...

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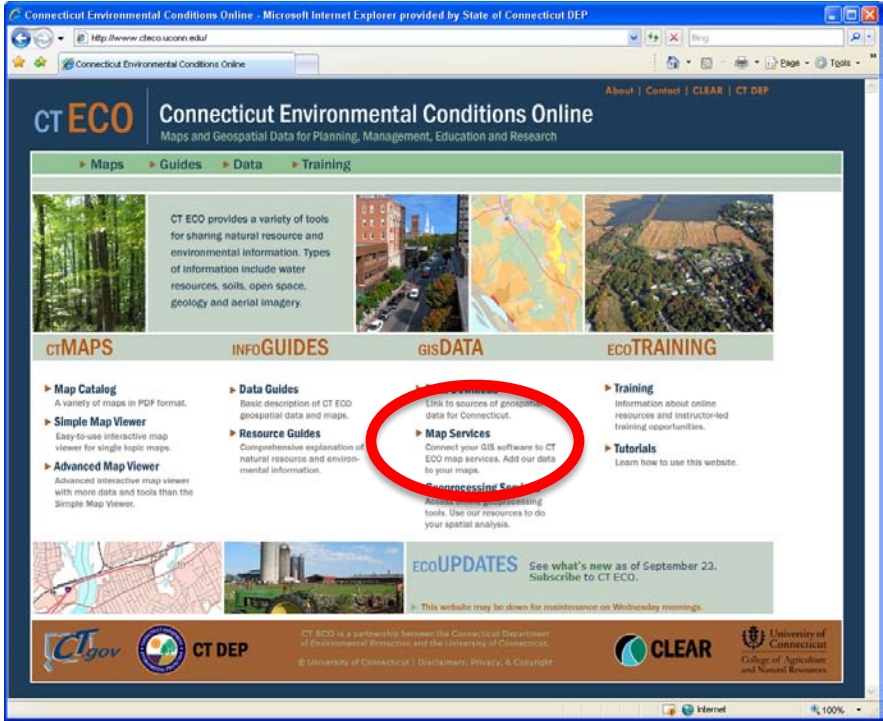
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# Map Services

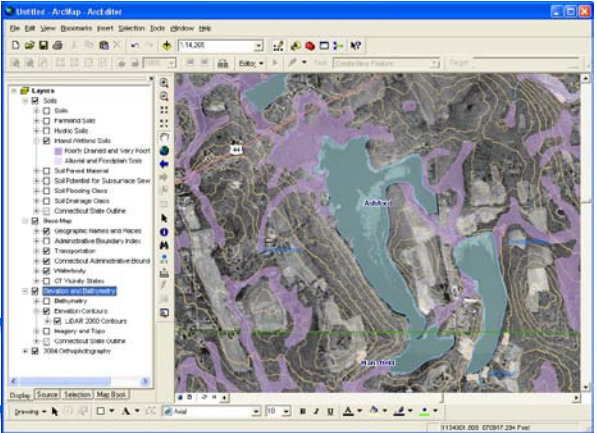
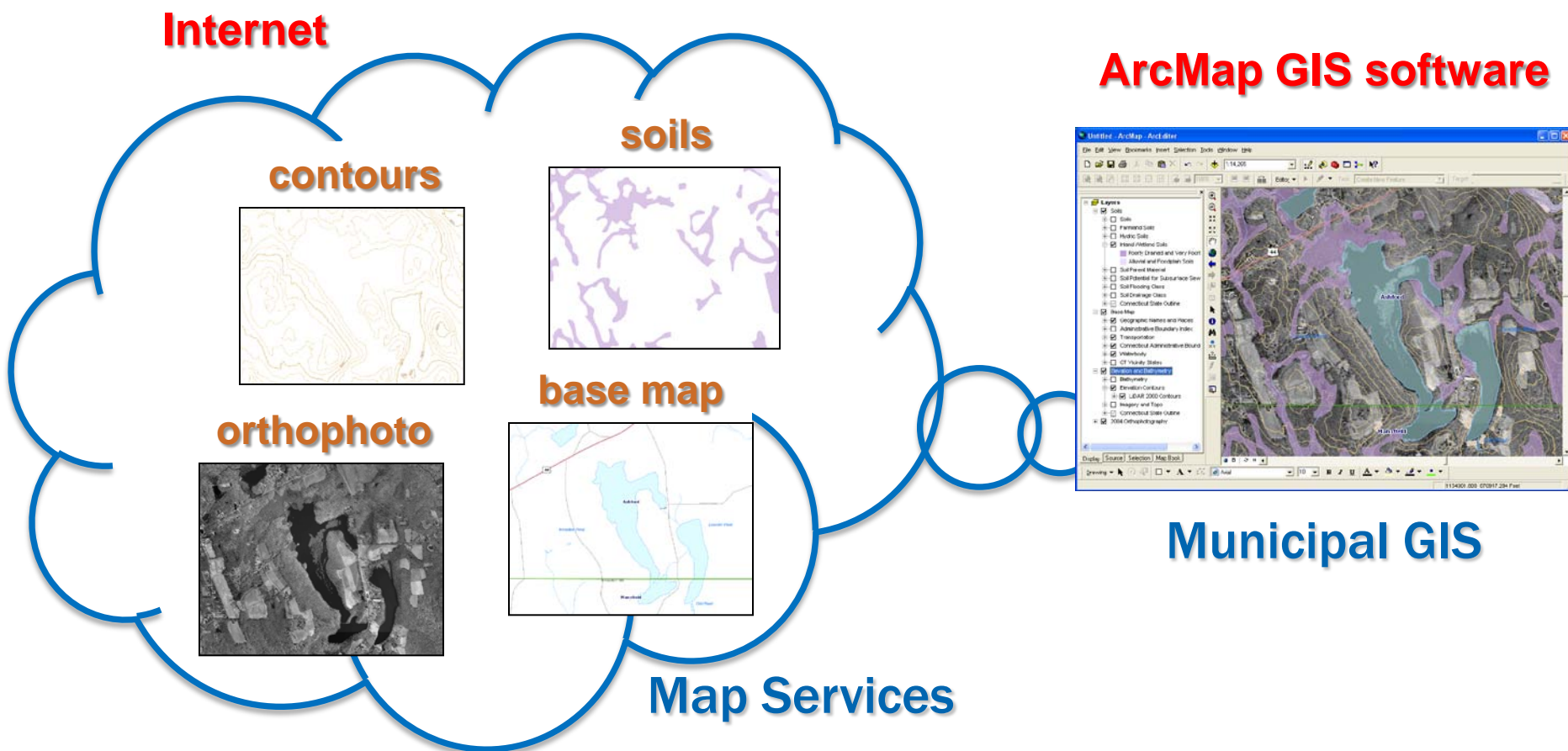
## CT ECO Home page



## Map Services

# Map Services

## Connect your GIS software to CT ECO map services



# Help us help you

## Tell others about CT ECO

- Link to CT ECO from your town website
- Include CT ECO in application materials
- Include CT ECO in fact sheets
- Add it to the bulletin board in town hall

## Tell us what you'd like to see in CT ECO

- New maps and data to add?
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- Contact us page