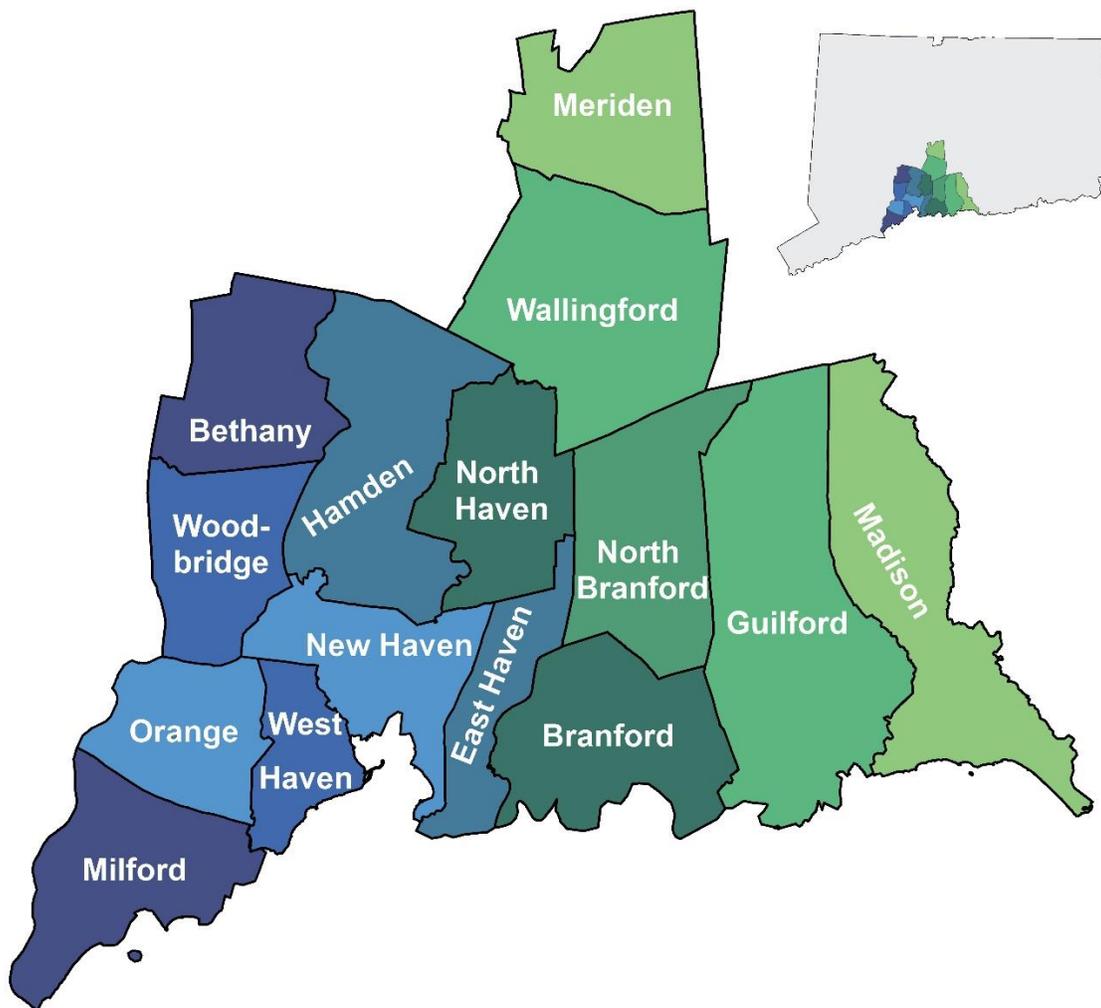


# SCRCOG

SOUTH CENTRAL REGIONAL COUNCIL OF GOVERNMENTS

 **Regional GIS Viewer Help Document**  
[gis.scrkog.org](http://gis.scrkog.org)



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## Municipality Selection

On the left side of the Regional GIS Viewer is a list of all municipalities that are members of the South Central Regional Council of Governments. To view a municipality, click on a municipal seal.

Home



**Bethany**



**Branford**



**East Haven**



**Guilford**



**Hamden**



**Madison**



**Meriden**



**Milford**



**New Haven**



**N Branford**



**North Haven**



**Orange**



**Wallingford**



**West Haven**



**Woodbridge**

[Clear Highlight](#) | [Clear Map Layers](#) | [Help](#)

Once a municipality is selected, the map view will zoom to the entire municipality and a selection of the municipality in the map view will occur. The left pane will also change to display an image, a brief description of the municipality, as well as the area and population as reported in the last decennial census.

Municipality at a Glance (1) 

 Welcome to



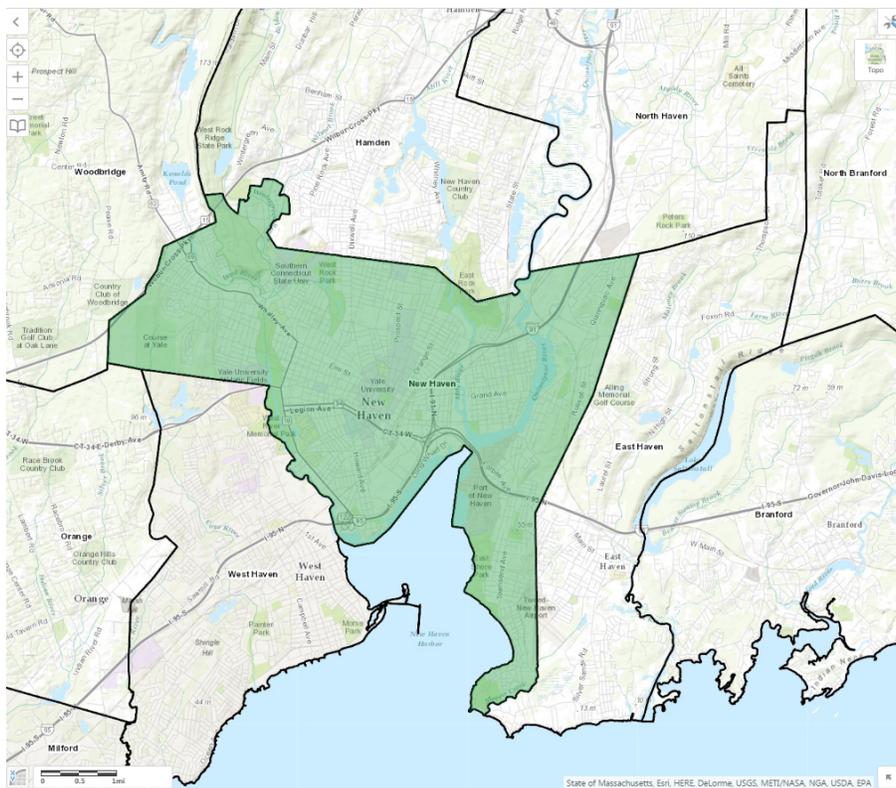
**New Haven**

New Haven is the second-largest city in Connecticut.

**Area:** 20.12 sq mi

**Population:** 129,779 (2010)

[Land Use](#) | [Parcels](#) | [Zoning](#) | [Toggle Toolbar](#)  
[Clear Highlight](#) | [Clear Map Layers](#) | [Home](#)



## Layer Selection

At the bottom of each municipality description are two rows of links. The left three links toggle the layer specified in the link (Land Use, Parcels, and Zoning) on and off. Select the layer to display it on the map viewer, select it again to turn it off.

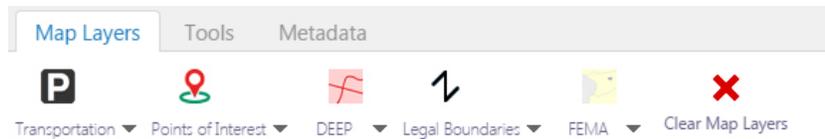
[Land Use](#) | [Parcels](#) | [Zoning](#) | [Toggle Toolbar](#)  
[Clear Highlight](#) | [Clear Map Layers](#) | [Home](#)

The bottom row of links is for the clearing of selections and layers that are currently visible as well as a link to the Municipality Selection pane.

[Land Use](#) | [Parcels](#) | [Zoning](#) | [Toggle Toolbar](#)  
[Clear Highlight](#) | [Clear Map Layers](#) | [Home](#)

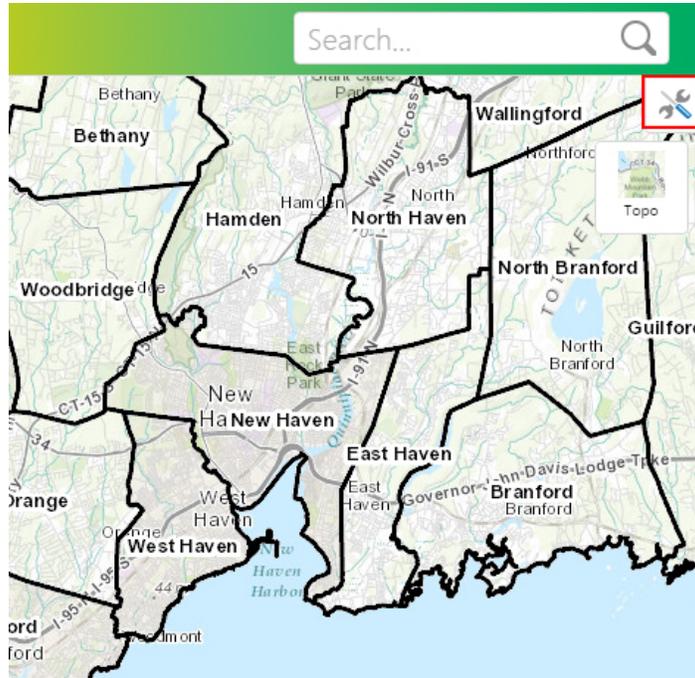
The link on the far right of the top row of links toggles the Layer Toolbar at the top of the Regional GIS Viewer window above the map view and left panel.

[Land Use](#) | [Parcels](#) | [Zoning](#) | [Toggle Toolbar](#)  
[Clear Highlight](#) | [Clear Map Layers](#) | [Home](#)



## Accessing the Layer Toolbar

The button in the top left corner of the Regional GIS Viewer window toggles the display of the Layer Toolbar. Click the button to **display** the toolbar, click it again to **hide** it.



## Data Layers Available

### Transportation Layers



**CTDOT Parking:** CTDOT Commuter Parking Lots



**Traffic Cams:** CTDOT Traffic Cameras



**Streets:** Street Centerlines with Labels

### CT Department of Energy and Environmental Protection (DEEP) Layers



**Aquifer:** Level "A" Aquifer Protection Areas



**Diversity:** Natural Diversity Data Base Areas



**Drainage:** Soil Drainage Class



**Water GQ:** Water Quality Classifications - Ground Water



**Water SQ:** Water Quality Classifications - Surface Water



**Farmland:** Farmland Soils



**Basin:** Local Drainage Basins



**Habitat:** CT Critical Habitats



**Bedrock:** CT Bedrock Geology



**Property:** CT DEEP Owned Property



**Sewer:** State-wide Sewer Service Area



**Wetland:** Inland Wetland Soils



**Slopes:** Steep Slopes > 10%



**SLOSH:** Hurricane Surge Inundation



**Protected OS:** Protected Open Space

#### Legal Boundaries Layers



**Town Borders:** Municipal Boundaries



**Parcels:** Municipal Parcels



**Zoning:** Municipal Zoning Districts



**Land Use:** SCRCOG Regional Land Use



**CT House 2010:** 2010 State House of Representatives District Boundaries



**CT Senate 2010:** 2010 State Senate District Boundaries

## Federal Emergency Management Agency (FEMA) Layers



**Flood Area:** FEMA Flood Hazard Areas



**BFE:** FEMA Base Flood Elevations

## Points of Interest Layers



**POI by Town:** All Points of Interest in a selected Municipality

Selecting the Points of Interest icon brings up a dialog with a list of the municipalities in the Region. Select the municipality/municipalities desired and click "OK" to turn on all points of interest located therein.

Select Town(s) ×

- Bethany
- Branford
- East Haven
- Guilford
- Hamden
- Madison
- Meriden
- Milford
- New Haven
- North Branford
- North Haven
- Orange
- Wallingford
- West Haven
- Woodbridge



**Airport:** Airport



**Beach:** Public Beach



**Fire Station:** Fire Station



**Comm.Center:** Community Center



**Golf:** Country Club



**Hospital:** Hospital



**Library:** Public Library



**Rec. Park:** Publicly Accessible Park



**Police Station:** Municipal Police Station



**Post Office:** Post Office



**State Park:** State Park



**State Police:** State Police Station



**Town Hall:** Town/City Hall



**University:** University Campus

## Clearing Map Layers

The link in the middle of the bottom row of links of the left pane **hides and clears** layers currently being displayed.



Alternatively, the button on the far right of the Layers Toolbar also **hides and clears** layers currently being displayed.



## Using the Tools Toolbar

The Tools Toolbar contains a collection of mapping and web tools that allow for greater interaction with the Regional GIS Viewer.



### Basic Tools



**Initial View:** Clicking on this button zooms the map view to the initial extent that shows the South Central Region in its entirety.



**Previous Extent:** Clicking on this button zooms the map view to the previously viewed extent in succession until you reach the initial extent.



**Print:** Clicking on this button brings up the print dialog for the Regional GIS Viewer. Adjust the settings in the print dialog, including changing the title and adding notes, then click the print button. The site will then generate a map of the area in the current extent displaying any markups that may have been made in PDF format.

Print x

Select Layout  
8.5" x 11" Landscape

Output Format  
Pdf

Resolution  
Normal

Map Scale  
Current Scale - 1: 288895

Map Title  
South Central Regional COG

Notes

Print



**Export:** Clicking on this button brings up the Export a Map image dialog for the Regional GIS Viewer. Select the image format you would like to use from the dialog, select whether you want to include the location data in the image and click on "Create Image". The site will then generate an image of the map area in the current extent displaying any markups that may have been made in the format selected in the "Export a Map Image" dialog.

Export a Map Image x

Select Image Format  
PNG

Include Georeference Data

Create Image

## Export a Map Image ×

To download and display the map image, click View Image.

[View Image](#)



**Clear Highlights:** Clicking on this button clears highlighted items that may have been selected on any of the visible layers.



**Clear Selection:** Clicking on this button clears the selection of items that may have been selected on any of the visible layers.



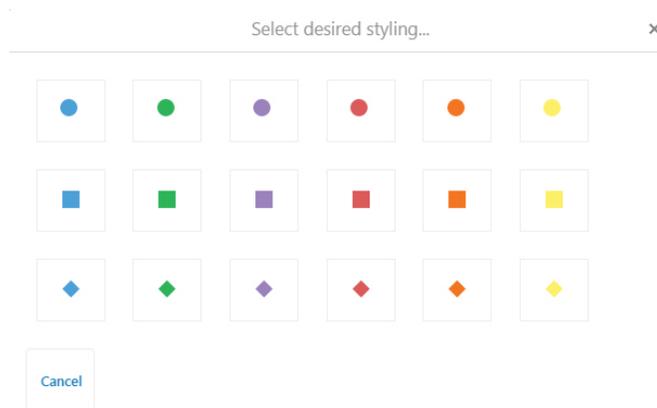
**Clear Map Layers:** Clicking on this button clears any Map Layers currently being displayed.

## Other Tools

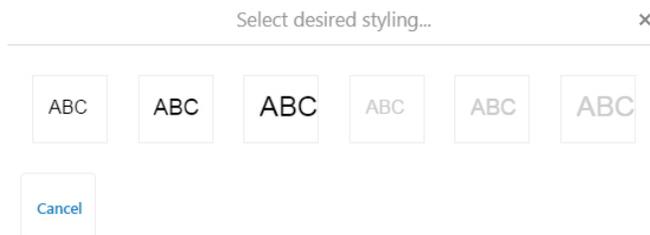


### Drawing Tools and Styles

- **Point:** The point drawing tool allows the user to draw a point anywhere on the map view. In order to change the color and style of the point, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.

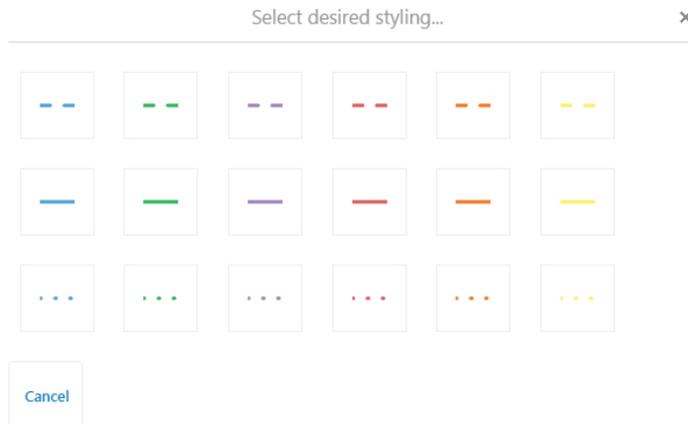


- **Text:** The Text drawing tool allows the user to place text anywhere on the map view. In order to change the color and style of the text, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.



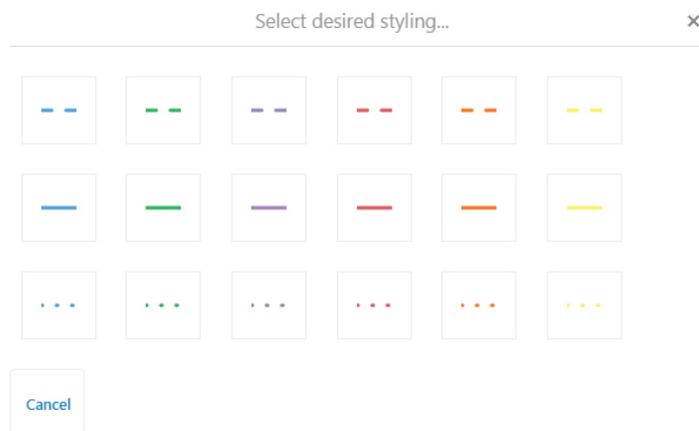
1

**Line:** The Line drawing tool allows the user to draw a line anywhere on the map view by clicking to create control points for the line. In order to change the color and style of the line, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.



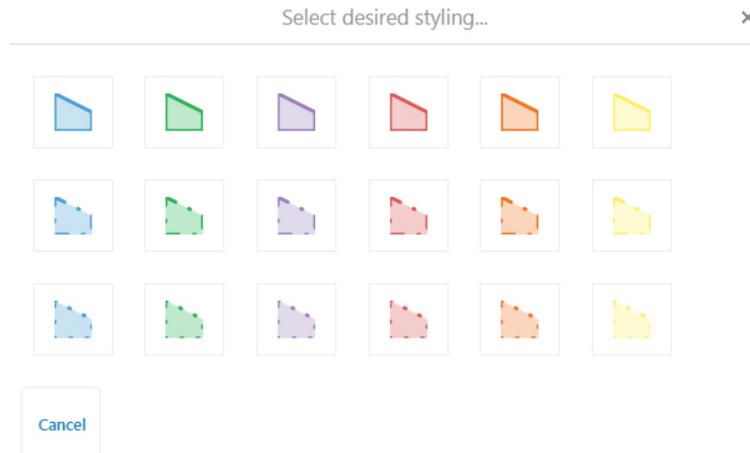
2

**Freehand:** The Freehand drawing tool allows the user to draw a line anywhere on the map view by clicking and dragging a path. In order to change the color and style of the line, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.

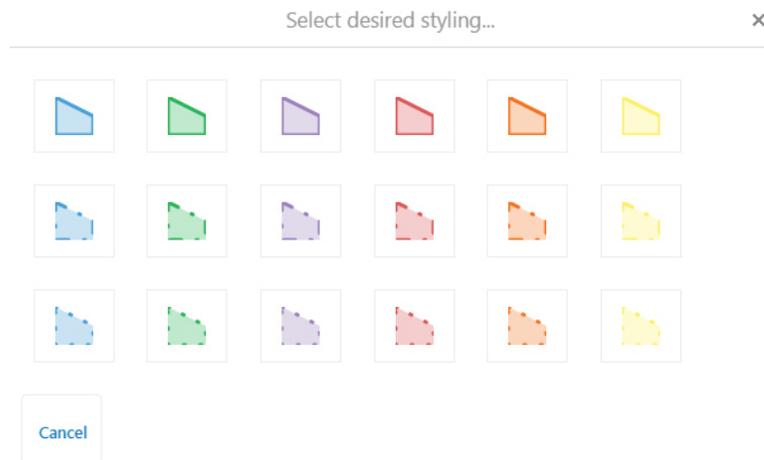




**Freehand Polygon:** The Freehand Polygon drawing tool allows the user to draw a polygon anywhere on the map view by clicking and dragging a path anywhere; the polygon will self-close when the mouse button is released. In order to change the color and style of the polygon, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.

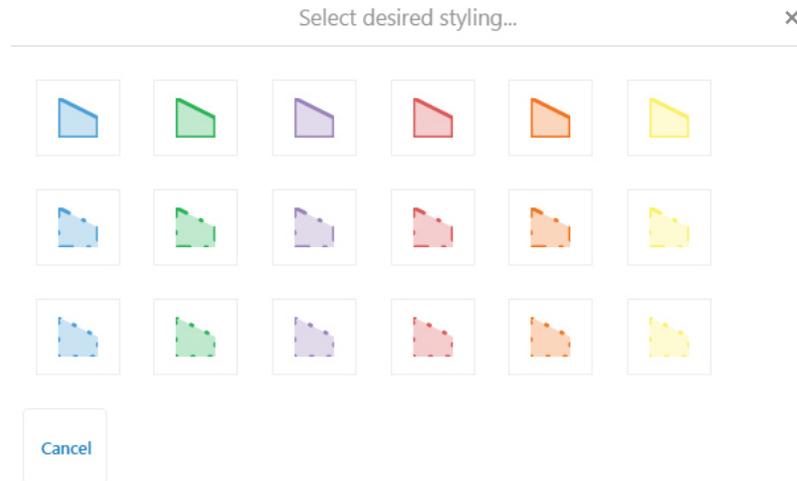


**Ellipse:** The Ellipse Polygon drawing tool allows the user to draw an ellipse anywhere on the map view by clicking desired location for the center of the ellipse to be and dragging to size and orient the ellipse being created. In order to change the color and style of the ellipse, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.

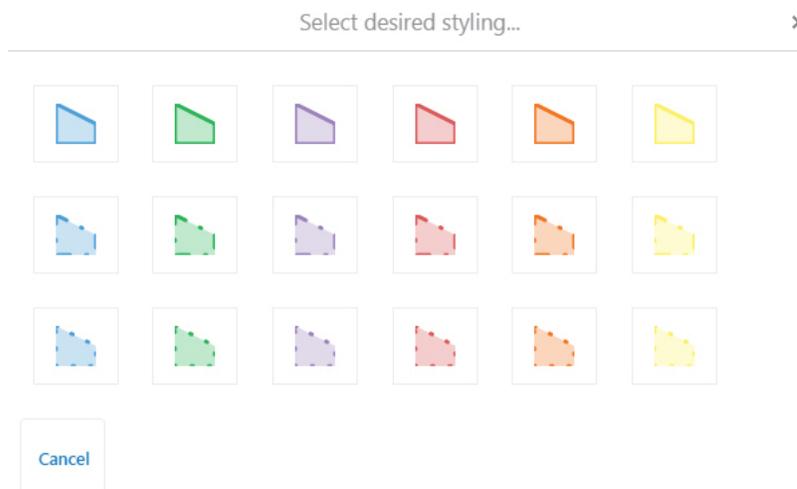




**Circle:** The Circle Polygon drawing tool allows the user to draw a circle anywhere on the map view by clicking the desired location for the center of the circle and dragging to size circle being created. In order to change the color and style of the circle, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.

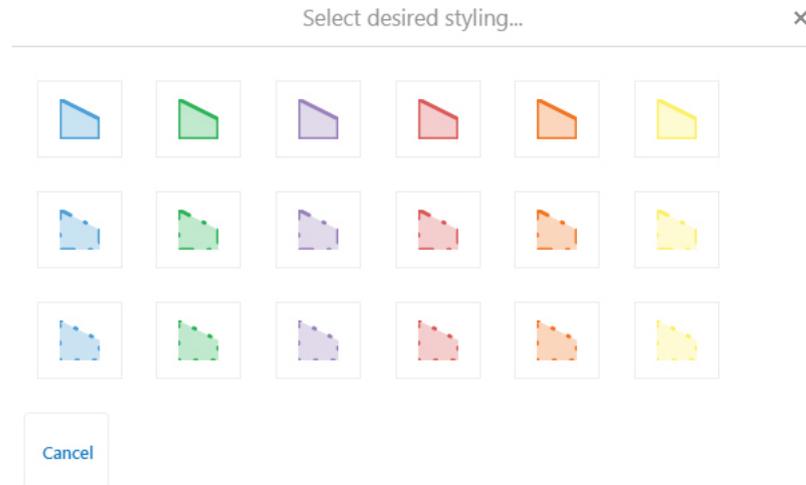


**Polygon:** The Polygon drawing tool allows the user to draw a polygon anywhere on the map view by clicking where the control points of the polygon should be; double-click to create the last control point and complete the polygon. In order to change the color and style of the polygon, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.





**Rectangle:** The Rectangle Polygon drawing tool allows the user to draw a rectangle anywhere on the map view by clicking the location for the top left corner of the rectangle and dragging to size the rectangle. In order to change the color and style of the rectangle, click on the "Drawing Styles" button to the left of the Draw menu and select the color and style desired.



## Find / Identify Data



**Point:** The Identify Point Tool allows the user to click on a point on the map view and identify the details of a particular visible feature layer. The feature identified will appear in the left pane. Select the item to be identified and the feature will be highlighted and the attribute data displayed. Click on the arrow in the top left of the left pane to go back to the feature selection pane.



**Freehand:** The Freehand Identify Tool allows the user to select features by drawing a line on the map view to identify the details of a particular visible feature layer. The features identified will appear in the left pane. Select the item to be identified and the features will be highlighted and the items displayed. Click on the arrow in the top left of the left pane to go back to the feature selection pane.



**Line:** The Line Identify Tool allows the user to select features by drawing a line with control points on the map view to identify the details of a particular visible feature layer; double-click to add the last control point and finish the line. The features identified will appear in the left pane. Select the item to be identified and the feature will be highlighted and the attribute data displayed. Click on the arrow in the top left of the left pane to go back to the feature selection pane.



**Polygon:** The Polygon Identify Tool allows the user to select features by drawing a polygon with control points on the map view to identify the details of a particular visible feature layer; double-click to create the last control point and complete the polygon. The features identified will appear in the left pane. Select the item to be identified and the features will be highlighted and the attribute data displayed. Click on the arrow in the top left of the left pane to go back to the feature selection pane.



**Rectangle:** The Rectangle Identify Tool allows the user to select features by drawing a rectangle on the map view to identify the details of a particular visible feature layer. The features identified will appear in the left pane. Select the item to be identified and the feature will be highlighted and the attribute data displayed. Click on the arrow in the top left of the left pane to go back to the feature selection pane.



**Query:** The Query Tool allows for the identification and selection of feature layers through the use of guided SQL queries.

Query

Layer:  
Bethany Parcels

Find results in **Bethany Parcels** where:  
Land Use contains

Add Another Condition

Spatial Filter:  
Current Extent

Search

To use the query tool, select it from the identify menu on the toolbar. The query-building interface will appear in the left pane. Select the **feature layer** that is to be selected in the topmost pull-down menu.

Query

Layer:  
Bethany Parcels

Find results in **Bethany Parcels** where:  
Land Use contains

Add Another Condition

Spatial Filter:  
Current Extent

Search

Next, construct the query using the query building pull-down menus in the middle of the pane. The pull-down on the left is for selecting the **field name**, the pull-down in the middle is for selecting the **operators** (=, like, etc.). The

pull-down/ entry box on the right is for selecting or inputting the specific **criteria** to be used.

If an additional query is desired, click on the "**Add Another Condition**" link and repeat the steps for creating a query.

Query ×

---

Layer:  

Bethany Parcels ▼

---

Find results in **Bethany Parcels** where:

Land Use ▼

contains ▼

×

[Add Another Condition](#)

---

Spatial Filter:  

Current Extent ▼

---

Search

The last component of the query builder is to specify whether to search the entire South Central Region or just what is visible in the map view. Select **None** to search the entire South Central Region/ entire feature layer, or select **Current Extent** to select features only from what is visible in the map view.

Query ×

---

Layer:

---

Find results in **Bethany Parcels** where:

Add Another Condition

---

Spatial Filter:

The features identified through the query will appear in the left pane. Select the item to identify and the feature will be highlighted and the attribute data displayed. Click on the arrow in the top left of the left pane to return to the feature selection pane.



**Filter:** The Filter Tool allows for the filtering of feature layers through the use of guided SQL queries. The query builder interface allows for filtering by what the user **wants to see** or by what the user **does not want to see**.

Filter ×

---

Layer:

---

Find results in **Airport** where:

Add Another Condition

---

Spatial Filter:

---

To use the filter tool, select it from the identify menu on the toolbar. The query-building interface will appear in the left pane. Select the **feature layer** that is to be selected in the topmost pull-down menu.

Filter ×

---

Layer:

---

Find results in **Airport** where:

Add Another Condition

---

Spatial Filter:

---

Next, construct the query using the query building pull-down menus in the middle of the pane. The pull-down on the left is for selecting the **field name**, the pull-down in the middle is for selecting the **operators** (=, like, etc.). The pull-down/ entry box on the right is for selecting or inputting the specific **criteria** to be used.

If an additional query is desired, click on the "**Add Another Condition**" link and repeat the steps for creating a query.

Filter x

Layer:  
Airport

Find results in **Airport** where:  
DESCRIPTION contains [ ] x

Add Another Condition

Spatial Filter:  
None

Filter Clear

The last component of the query builder is to specify whether to search the entire South Central Region or just what is visible in the map view. Select **None** to search the entire South Central Region/ entire feature layer, or select **Current Extent** to select features only from what is visible in the map view.

Filter ×

---

Layer:

---

Find results in **Airport** where:

Add Another Condition

---

Spatial Filter:

The features filtered through the query will be the **only ones visible** in the map view.

## Measuring

**Distance:** The Line Measuring Tool allows for the measuring of distances by drawing a line with control points on the map view; double-click to add the last control point and finish the line.



The lengths of the individual line segments will be displayed above or below the line segment and when the line is completed through double-clicking, a pop-up will appear with the total distances of all the line segments added together.

**Area:** The Area Measuring Tool allows for the measuring of areas by drawing a polygon with control points on the map view; double-click to add the last control point and complete the area polygon.



The lengths of the individual line segments will be displayed above or below the line segment and when the polygon is completed through double-clicking, a pop-up will appear with the area and perimeter of the polygon created.

## Clear Markups



**Clear Markups:** To clear any drawings, selection lines/polygons, identification lines/polygons, and measurement lines/polygons, click on the green "X" located on the far right of the tools toolbar.

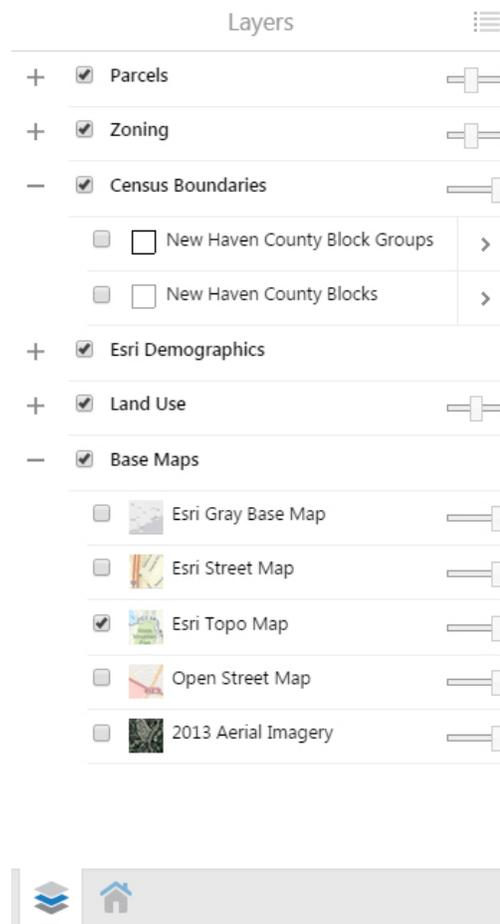
## Layer Control

The available layers will appear when the Layer Control Button located at the bottom left of the screen is clicked.

The Layer Control button allows data layers to be toggled on and off.

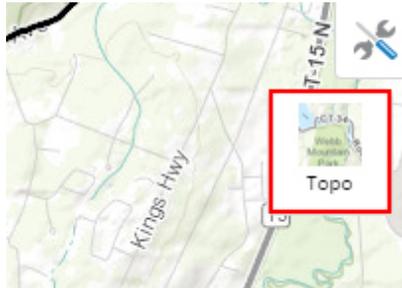
Different basemaps, including aerial photography can also be toggled on and off.

Only one basemap can be viewed at a time.

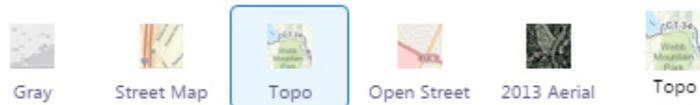


## Changing Basemaps

To change between the available basemaps, click on the icon near the top right corner of the screen.



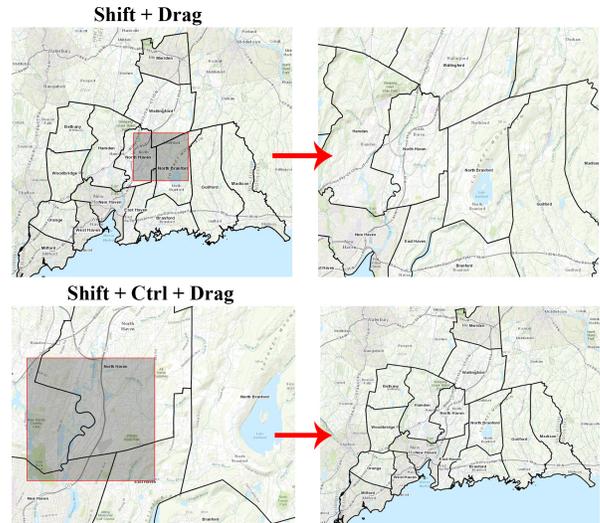
Once the Basemap button has been pressed, multiple selections will appear (as shown below). Click on a selection to change the basemap.



## Zoom in and out of Map

### Option 1: Shift and Drag

- Using the cursor, hold down the shift key and drag a box over the area of interest. **To zoom out**, drag a box over the area of interest while holding shift + ctrl.



### Option 2: Zoom Buttons

Use the zoom buttons found on the upper left side of the screen.

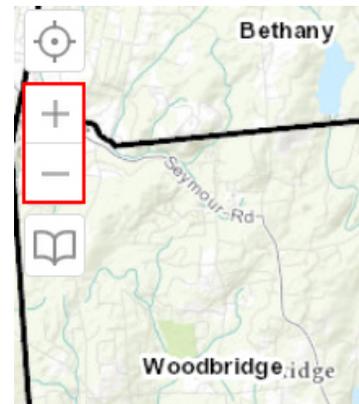
- These buttons will zoom the map to pre-defined levels.

### Option 3: Mouse

- Scroll the mouse wheel up to **zoom in** or down to **zoom out**.

### Option 4: Keyboard

- Use the **plus key** on the number pad to zoom in and the **minus key** to zoom out.



## Zoom to Current Location

### Location Awareness: Locate Me

Use the Locate Me button found on the upper left side of the screen above the zoom +/-.

- This will move the map to the current location as reported by the user's device.
- Note: You may have to approve the use of location services by this site in order for this feature to work.

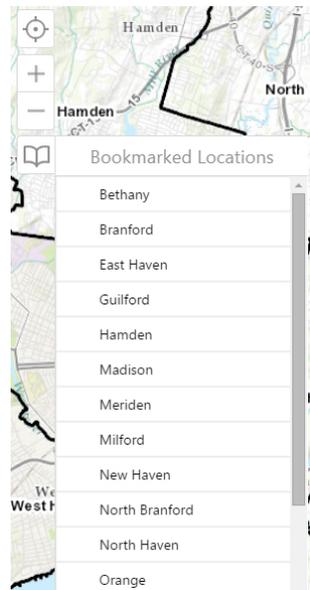
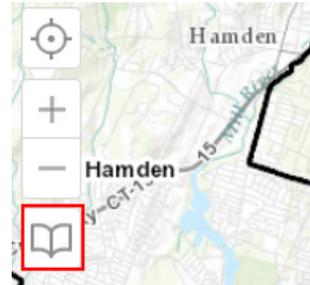


## Municipality Bookmarks

### Bookmarks: Zoom to a Municipality

Use the Bookmarks button found on the upper left side of the screen below the zoom +/-.

- This will bring up a list of the municipalities in the South Central Region and that will, upon clicking, zoom to the municipality selected.

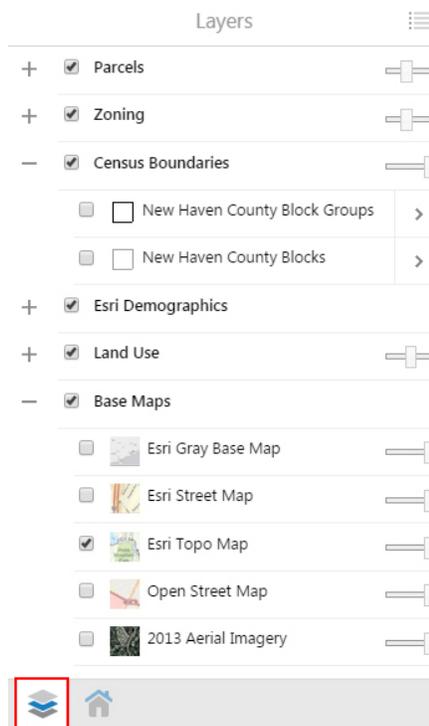


## Pan around the Map

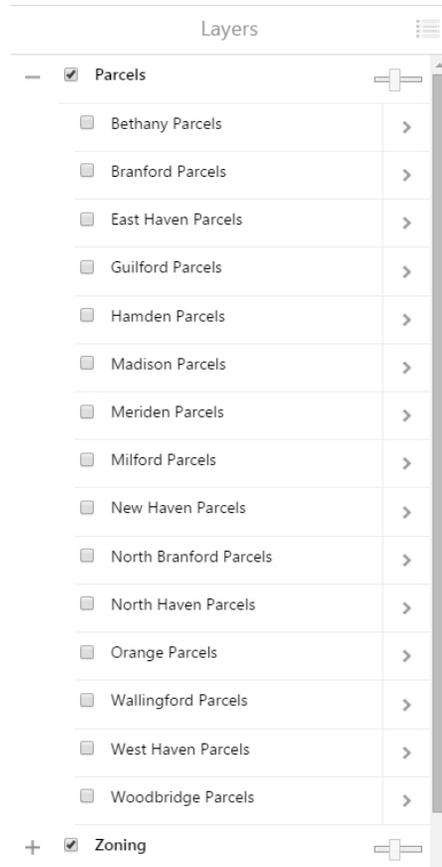
Left click and drag the mouse to pan around the map environment.

## Advanced Layer Control

The available layers will appear when the Layer Control Button located at the bottom left of the screen is clicked.

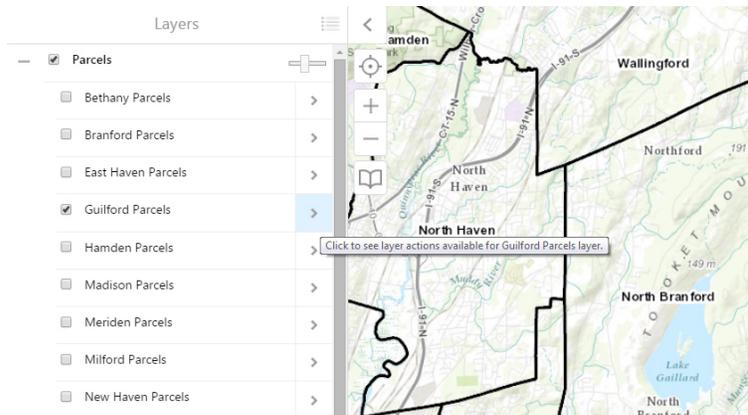


The layers are divided into groups that are further broken down by each individual municipality.



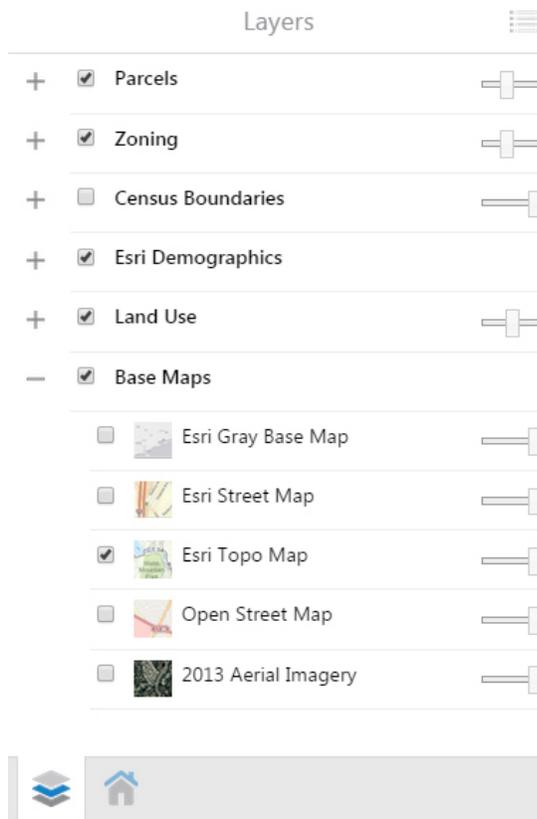
Clicking the arrow to the right of the municipality name will open a menu that provides the option of either zooming to the full extent of that municipality's layer or to zoom in far enough to make the layer visible.

Note: Some layers may not be visible at larger extent levels due to the nature of the layer or the large number of features in the layer.



	Guilford Parcels
➔	<b>Zoom to full extent</b> Zoom the map to the full extent of the layer.
➔	<b>Zoom to visible scale</b> Zoom the map to a scale where the layer is visible.

Each layer group has a slider control that changes the opacity of each layer group. Slide to the **right** to make the layer group more **opaque** or slide to the **left** to make the layer group more **transparent**.



## Advanced Tools



**X/Y Coordinates:** Clicking on this button in the lower left corner of the page brings up a dialog that shows the X and Y coordinates of the current cursor location. Use the pull-down menu in the center of the dialog (In red) to change the units of the X/Y coordinates being displayed (In green).





**Locator Map:** Clicking on this button in the lower right corner of the page brings up a small locator map that highlights the area visible in the map view. Click on the arrow again to close the locator map.

