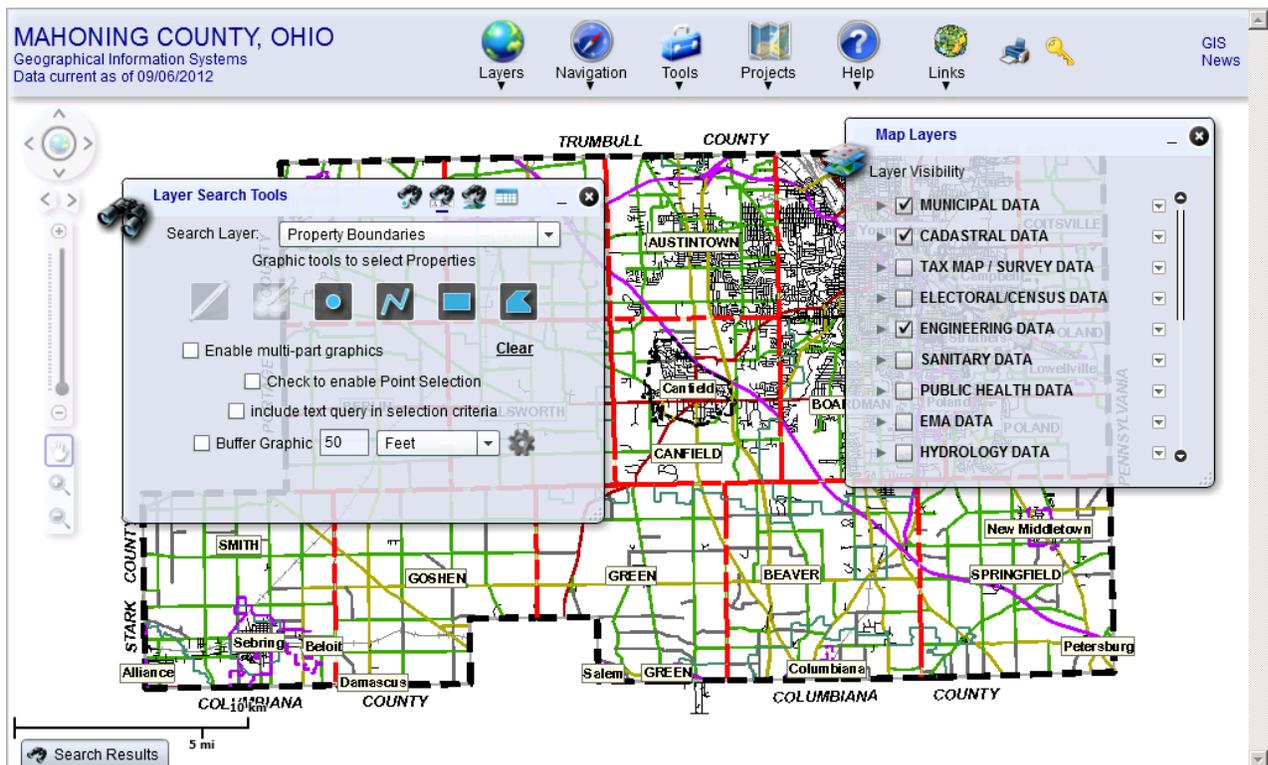


Mahoning County Ohio GIS

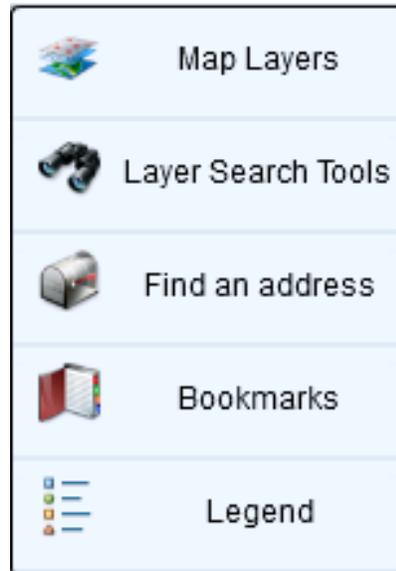
Welcome to the Mahoning County Ohio GIS online help page.

The top left hand corner of the GIS web site displays the date of the most recent data update. The top right hand corner of the banner displays a link to the "GIS News" page that will describe what is new and upcoming at the county.



Layers

Select "Layers" on the toolbar to adjust the background display and layer control. There are also Layer Search Tools, Find Address, Bookmarks and Legend options.

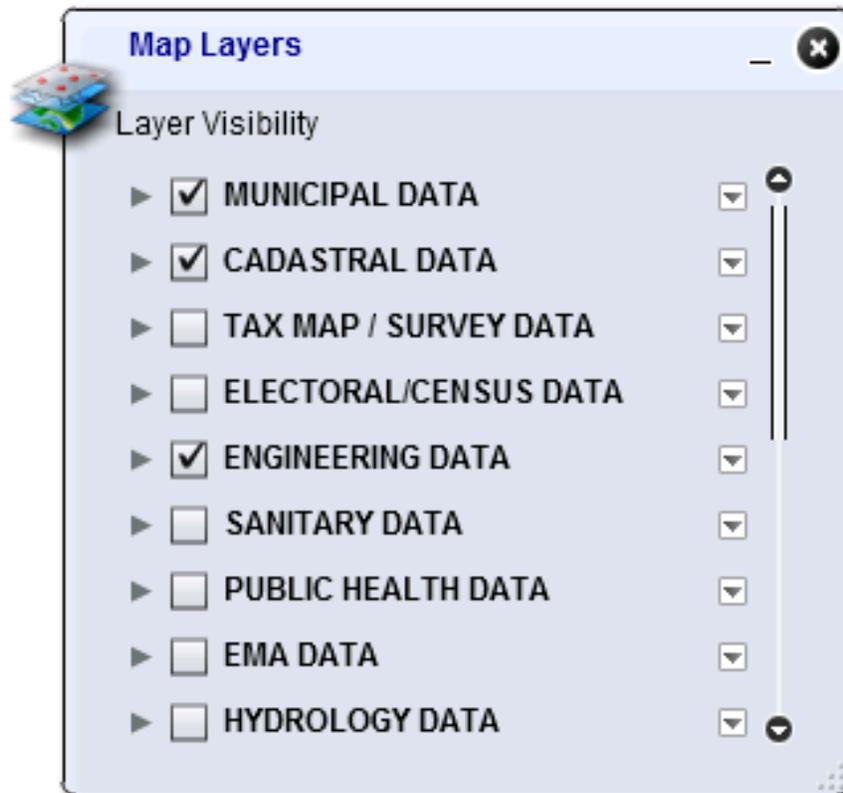


- **Map Layers**

The Map Layer widget will allow you to select different graphical layers available.. You may move the widget around the screen by clicking on the widget header and dragging and dropping to a desired location.

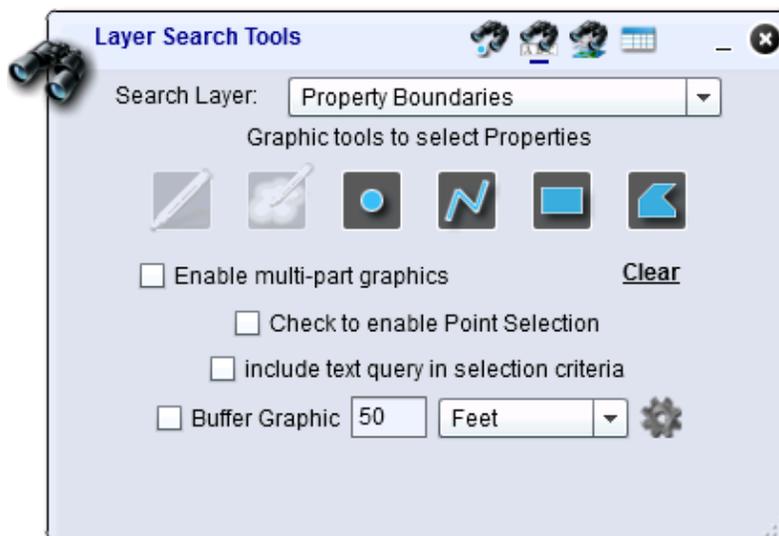
To turn a layer on, click the check box to the left of the layer name. To turn the layer off, click the check mark that appears in the box. To expand each layer group click the arrow to the left of the layer name. This will show additional layers within that group that can be turned on and off.

Click the small down arrow to the right of the layer name to get a description of each layer, move the layer group up/down in the widget, zoom to layer, or set the transparency of the layer.



All of the layers that appear in the "Map Layers Widget" are available to search, except for Orthophotography and other imagery. There are three different search functions available, Graphic Search, Text Search, or Spatial Search. Choose one of the selections in the header of the Widget. Click the down arrow in the "Search Layer" box to choose the target layer.

- **Layer Search Tools**



Once you have chosen the layer you would like to search, choose the type of identify tool you would like to use, then click on the map to imitate your search. The types of identify tools available are Point, Line, Rectangle, or Polygon.



Once your search has been executed the results on the map will be highlighted in red. The Layer Search Tools Widget will display the attributes of your search. Choose "Zoom" to zoom into the location of your selection on the map. Choose "Clear" to clear all results and perform another search.



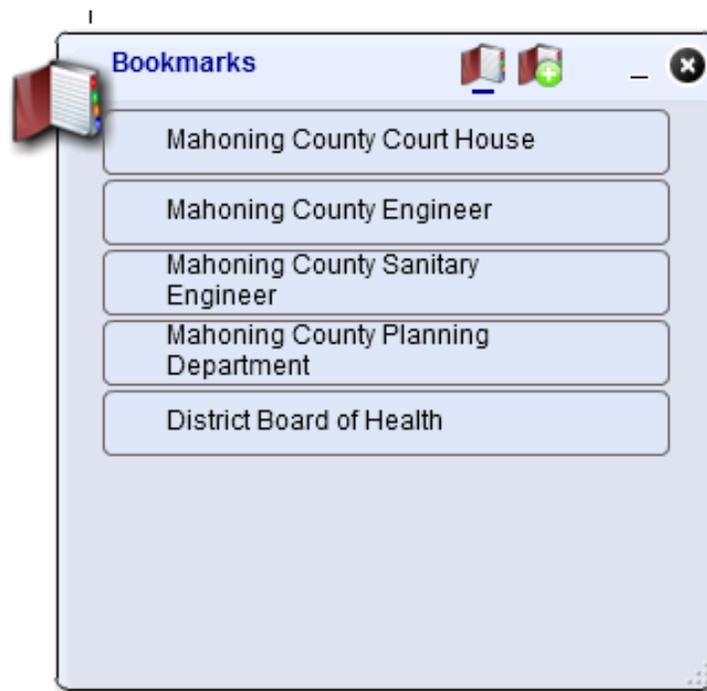
- **Find an Address**

Select “Find an Address” from the Layers Menu to locate a specific address within the county.



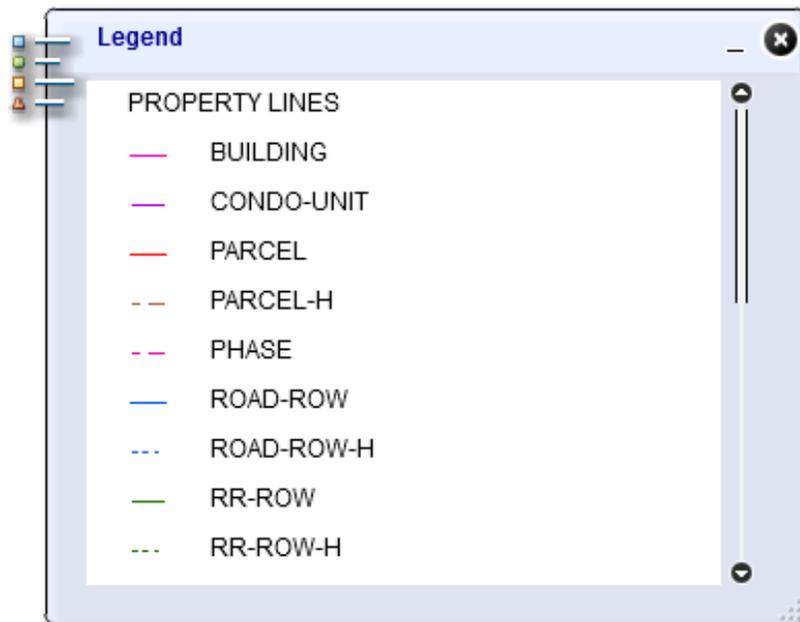
- **Bookmarks**

The Select Bookmarks Widget will allow you to save a view or pick from a previously saved map view and zoom to the location that you have saved.



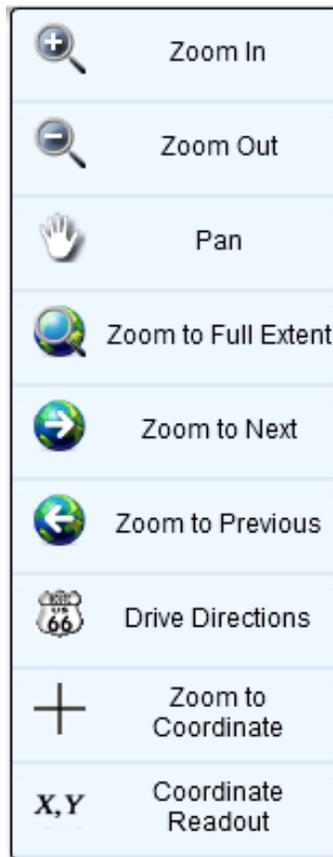
- **Legend**

Select "Legend" will show you a listing of the map symbols and their definitions.



Navigation

The Navigation menu in the main toolbar is the chief means of navigation within the GIS Mapping Viewer. Along with using the controls in this menu, there is also a navigation bar on the left hand side of the Map Viewer as well as keyboard shortcuts that can be employed to navigate around the map.



Zoom In, Zoom Out

- **Zoom In, Zoom Out Using the Mouse Wheel**

Zoom in and zoom out can be accomplished most easily by manipulating the mouse wheel. Place your cursor over the area you want to zoom to and rotate the mouse wheel forward or backward, depending on direction you want to zoom.

- **Zoom In, Zoom Out Using the Navigation Controls**

To select an area you want to zoom to, you can also use the Zoom In, Zoom Out controls in the drop down list. Select the desired zoom control and by using the left mouse button drag the cursor over the area you want to zoom to create a rectangle. Release the button

to complete the rectangle and initiate the zoom. The selected command will remain active until another navigation control is selected.

- **Zoom In, Zoom Out Using the Slider Control**

There is a slider control on the left side of the map that can be used to change the extent of the map. Using the mouse, the zoom of the map can be changed by sliding the dot up or down on the slider bar to desired zoom or depress the left mouse button over the minus sign in circle to zoom out to desired zoom. The map will stay centered in the same position when using the zoom slider control.

- **Zoom In, Zoom Out Using "Shift + Mouse Drag"**

You can use the highlight and zoom functionality without activating the control in the navigation menu. Simply hold your shift key and highlight a new zoom box.

Full Extent (Countywide Zoom)

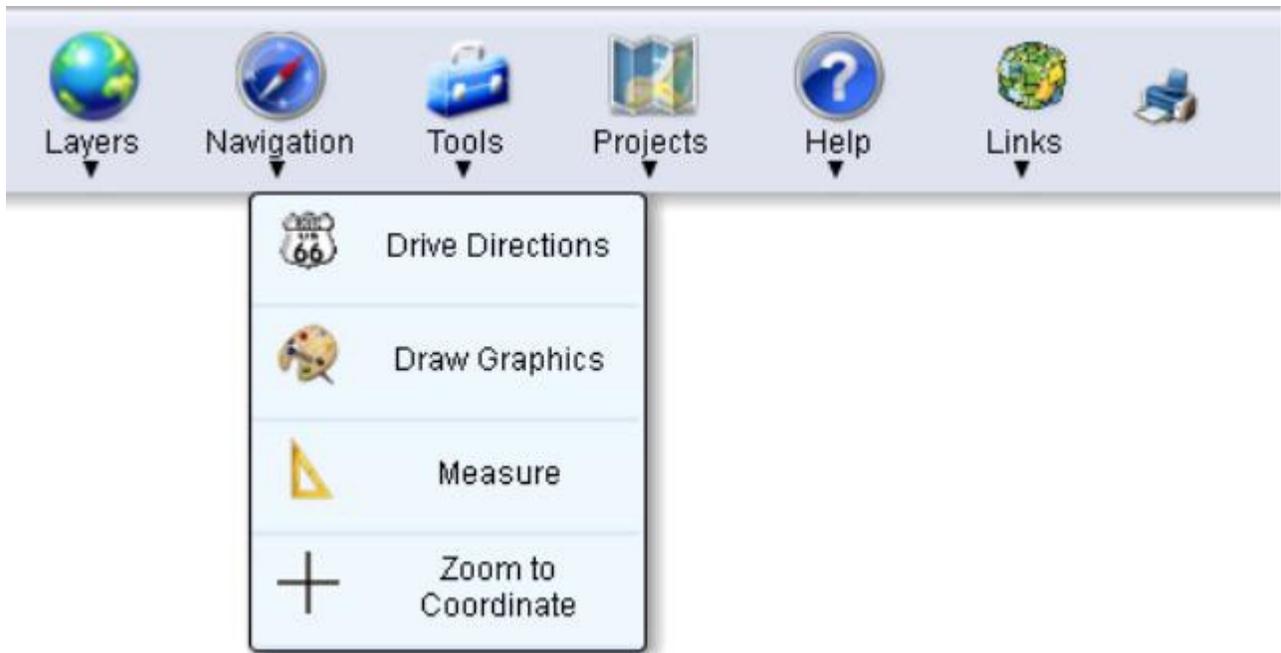
If you want to return to the full extent of the county, select the "Full Extent" button from the Navigation menu.

Pan

The Pan tool is activated by default when first opening the application. If you use another tool, such as the Zoom In tool, you can reactivate the Pan tool by going to the Navigation menu, and selecting "Pan". When the cursor appears as a hand, the pan tool is active.

Zoom to Previous and Next Extents (Zoom History)

A history of your zoom extents is saved by the application and can be accessed via the Navigation menu. To go back to a previous map extent, access the Navigation menu and select "Zoom to Previous". To go forward in your map extent history, select "Zoom to Next".



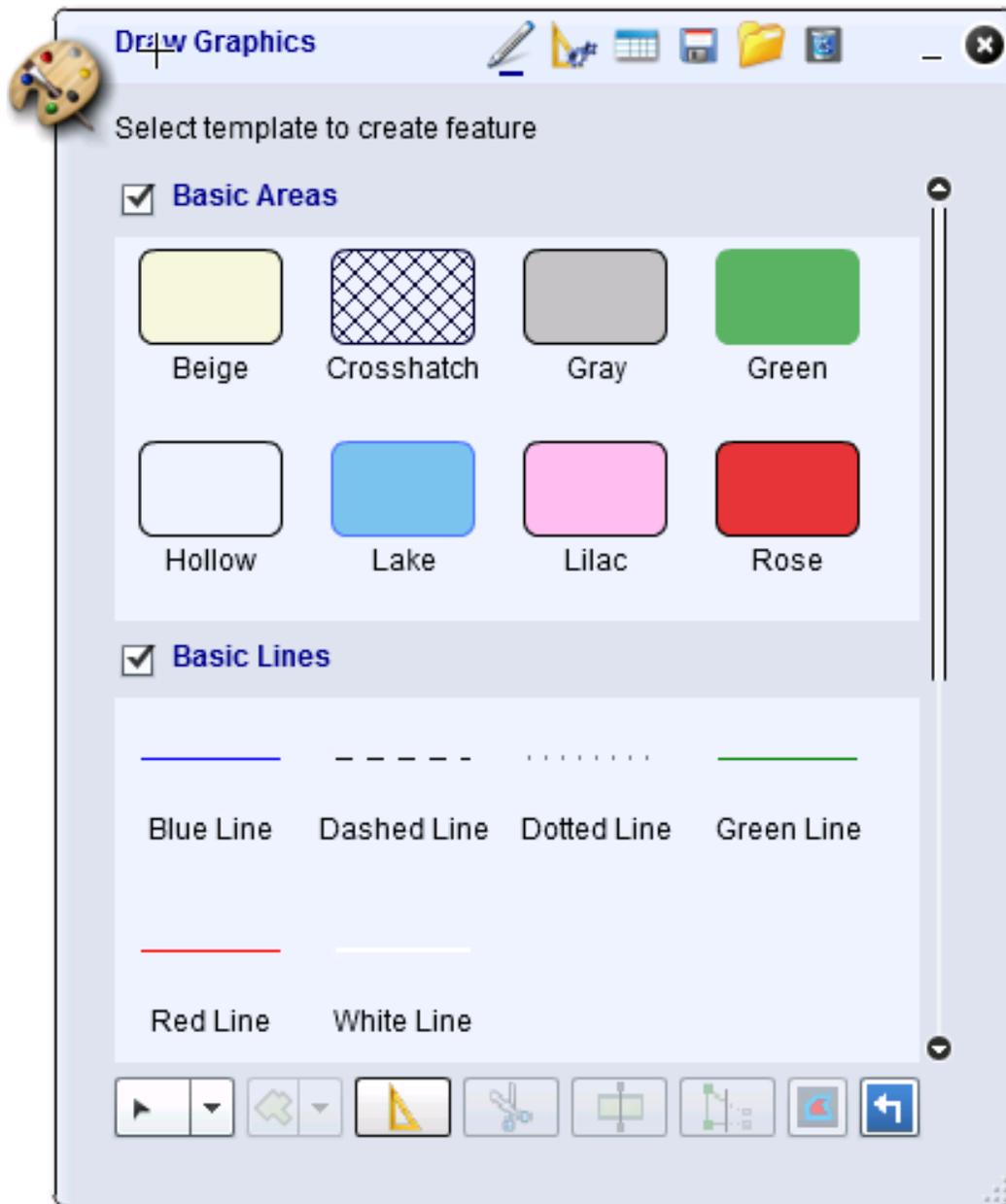
Drive Directions

The Drive Directions Widget gives you driving directions from one location to another. You can add a stop, add a barrier, and calculate directions based on time or distance.



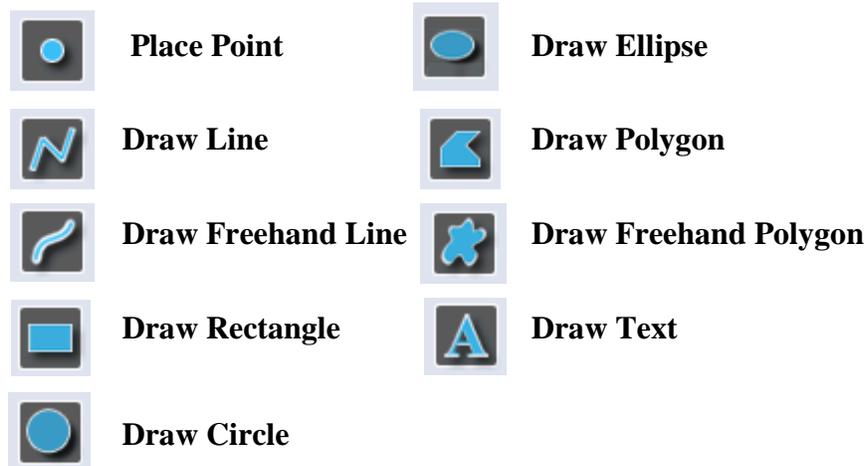
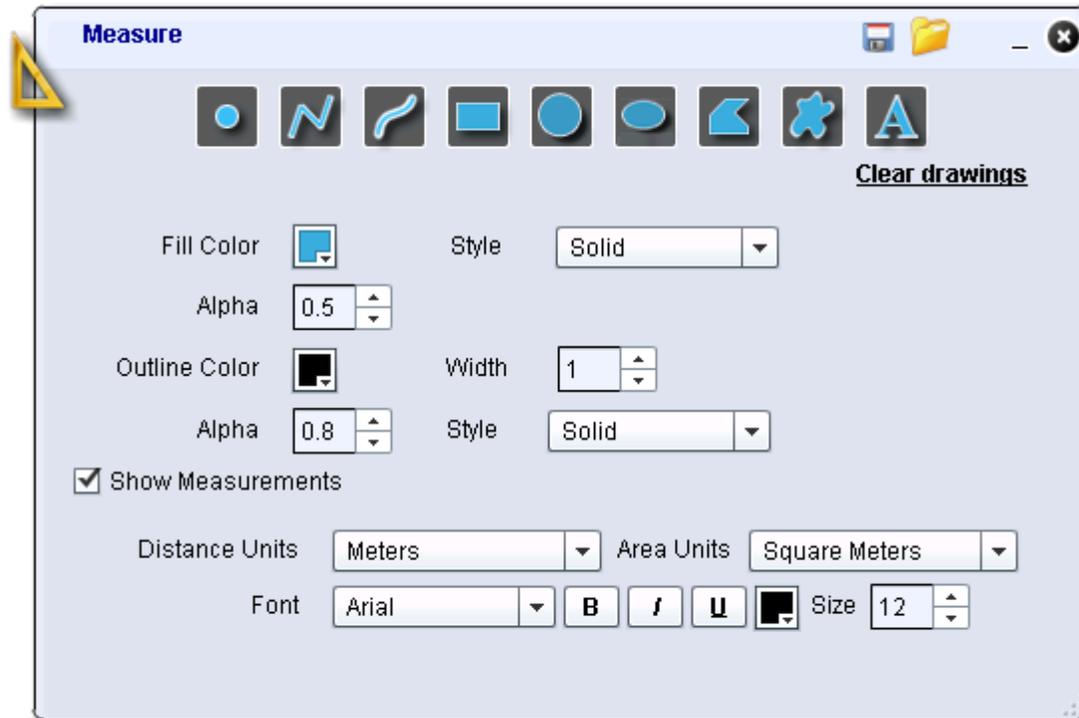
Draw Graphics

Draw Graphic allows for the creation of polygons, shapes, and lines. It also gives you the capability to add text to the map. To create a graphic, first click the Draw Graphics icon on the Tools Menu and then select the button that corresponds to the type of graphic you would like to create.



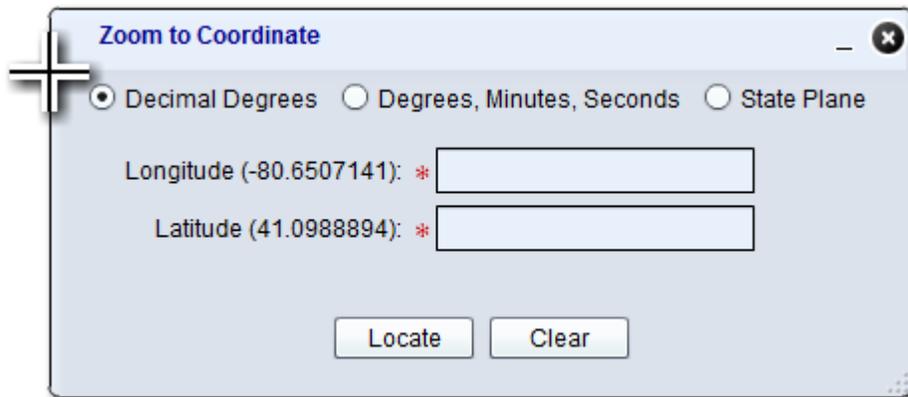
Measure

Measure allows you to measure and display resultant measurement text. Access the Measure widget thru the Tools button. Select the drawing tool which you would like to measure with. When you use a line tool, you will receive length information. When using a polygon tool, you will receive both an area calculation and a perimeter calculation. Text and lines will disappear when you dismiss the widget.



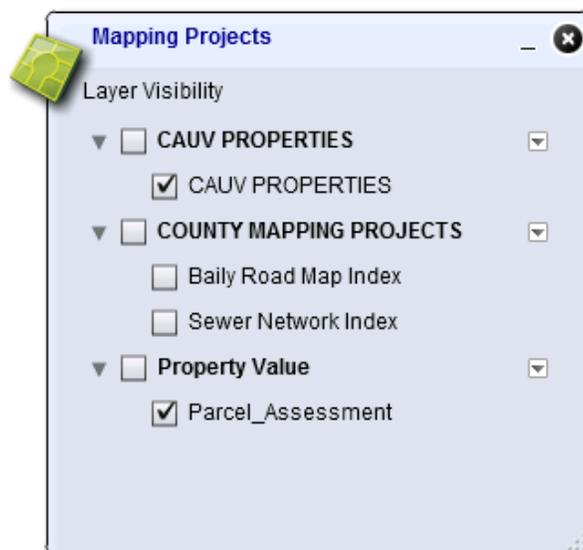
Zoom to Coordinate

The Zoom to Coordinate Widget will zoom you to the coordinate location on the map. Simply enter the coordinates into the appropriate boxes and choose locate. The map will then zoom to the coordinates entered.



Mapping Projects

The Mapping Projects Widget allows you to toggle the existing county projects on and off.



Links

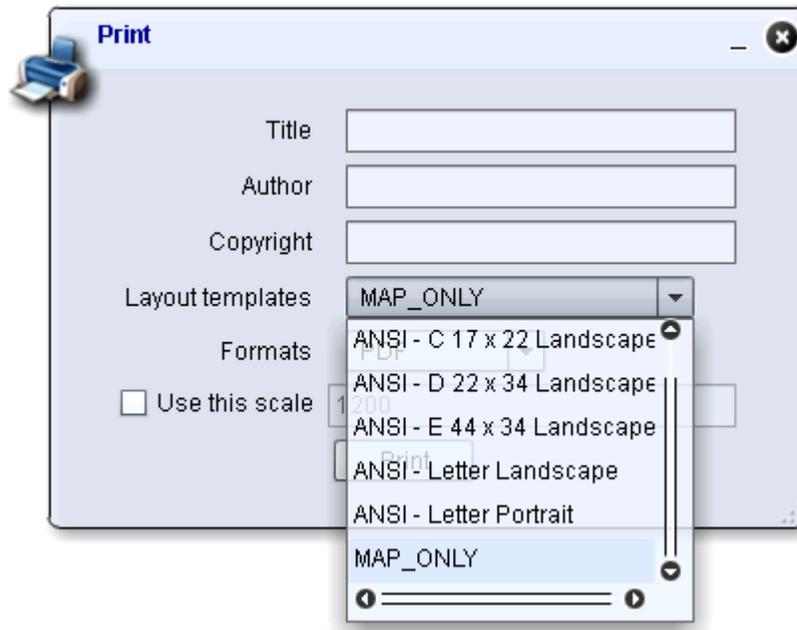
The "Links" Menu provides a link to several of the County departments'. Click on the link and a new window will open to a department's webpage.



Print

The Print Icon opens a Widget in which you can print maps or create map images.

You may enter a Title, Author, and copyright for your printed maps, however this step is optional. There are several layout templates for you to choose from. Click on the down arrow in the "Layout templates" drop down box and choose the template of your choice. If you choose "MAP ONLY" the result will not have a border or legend. Any other templates will have a border and map legend.



There are several file formats choose from. Click on the down arrow in the "Formats" drop down box and choose the format of your choice. You may choose from PDF, PNG32, PNG8, JPG, GIF, EPS, SVG or SVGZ. You can set the scale at which you would like your map to be printed. If you would like to choose a specific scale level, click in the "Use this scale" check box and enter the scale level.

