

Jefferson County

Internal GIS Web Map

User Guide

Application and documentation provided by the Jefferson County GIS Department (2021)

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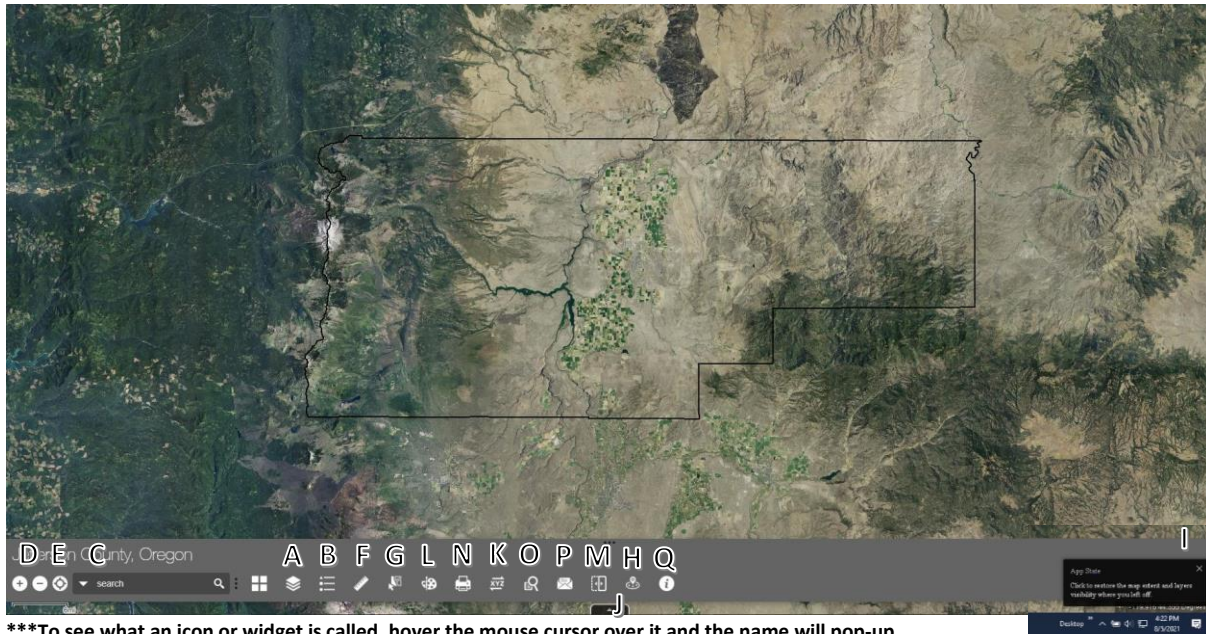
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***The capital letter designations correspond to the image of the map on the next page, where each map element is identified by a letter.



***To see what an icon or widget is called, hover the mouse cursor over it and the name will pop-up.

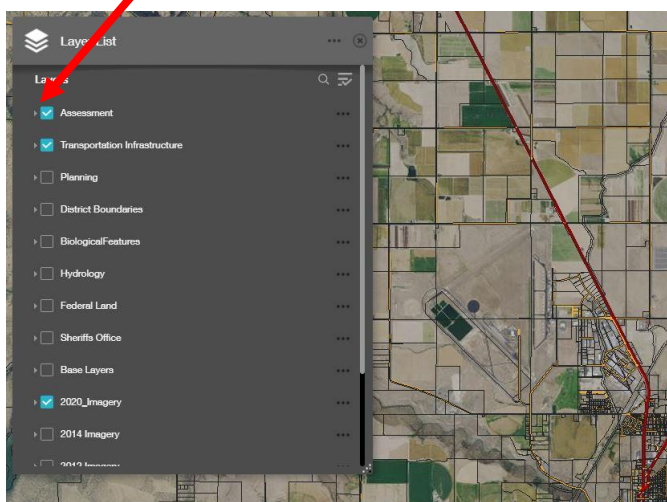
Layer List



A. Layer List

Click the *Layer List* icon to see the *Layer List*. A pop-up window with all available data layers will appear.

In the screenshot below, the initial *Layer List* view shows the data categories. Click the right-pointing arrow to expand the data category.



To make a dataset visible in the map, click the box so that a check appears.

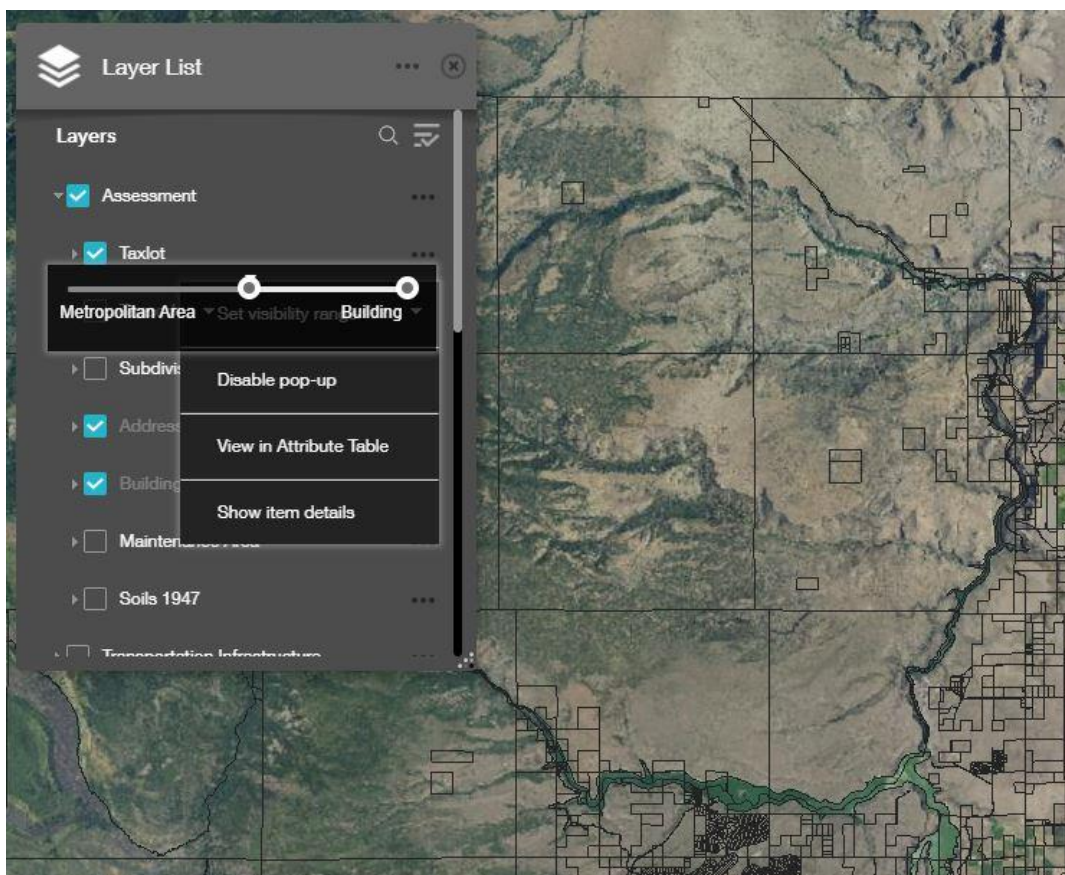
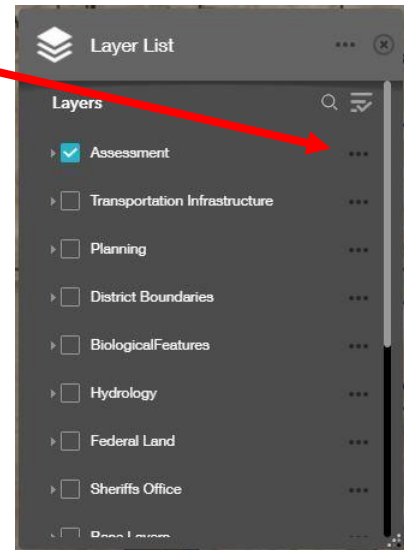
To adjust the visual aspects of the data within the map, click the ellipsis to the right of the data group title.

Clicking the ellipsis next to the data category will give these configuration options:

- Zoom to*
- Transparency*
- Set visibility range*
- Disable pop-up*
- Move up*
- Move down*
- View in Attribute Table*
- Show item details*

Clicking the ellipsis next to the specific *dataset* name will give these configuration options:

- Set visibility range*
- Disable pop-up*
- View in Attribute Table*
- Show item details*



To set the visibility level, adjust the white down arrows along the slider. The left arrow will represent the maximum scale at which the dataset will become visible, while the right arrow will determine the zoomed-in extent at which the dataset will stop rendering. The black arrow above the slider shows the

current zoom level. The titles below the end of the slider indicate the level at which the arrows are positioned.

The Layer List can be searched by clicking the magnifying glass at the top of the panel and then entering the desired text into the search window.

Legend



B. Legend

Click the *Legend* icon to expand the *Legend* view. The *Legend* is organized by the order of the category and dataset order within the *Layer List*. Only those layers that are turned on, or where the map is zoomed in far enough to activate the rendering, are visible within the *Legend*.

Search Window

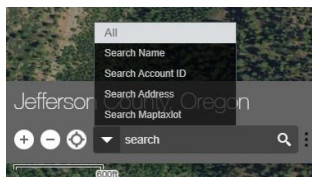


C. Search Window (in the bottom left of the map view)

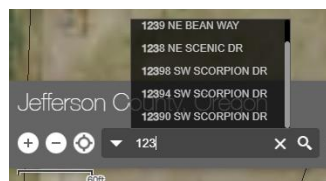
- a. Click the drop down to select specific datasets to search

Wildcard searches will be performed automatically if only a portion of the search value is entered. For instance, the search for “123”, with the address dataset selected will return all possible values in a dropdown list below the search window:

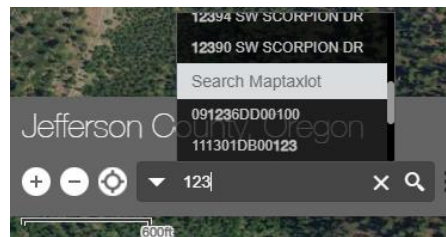
List of possible layers to search



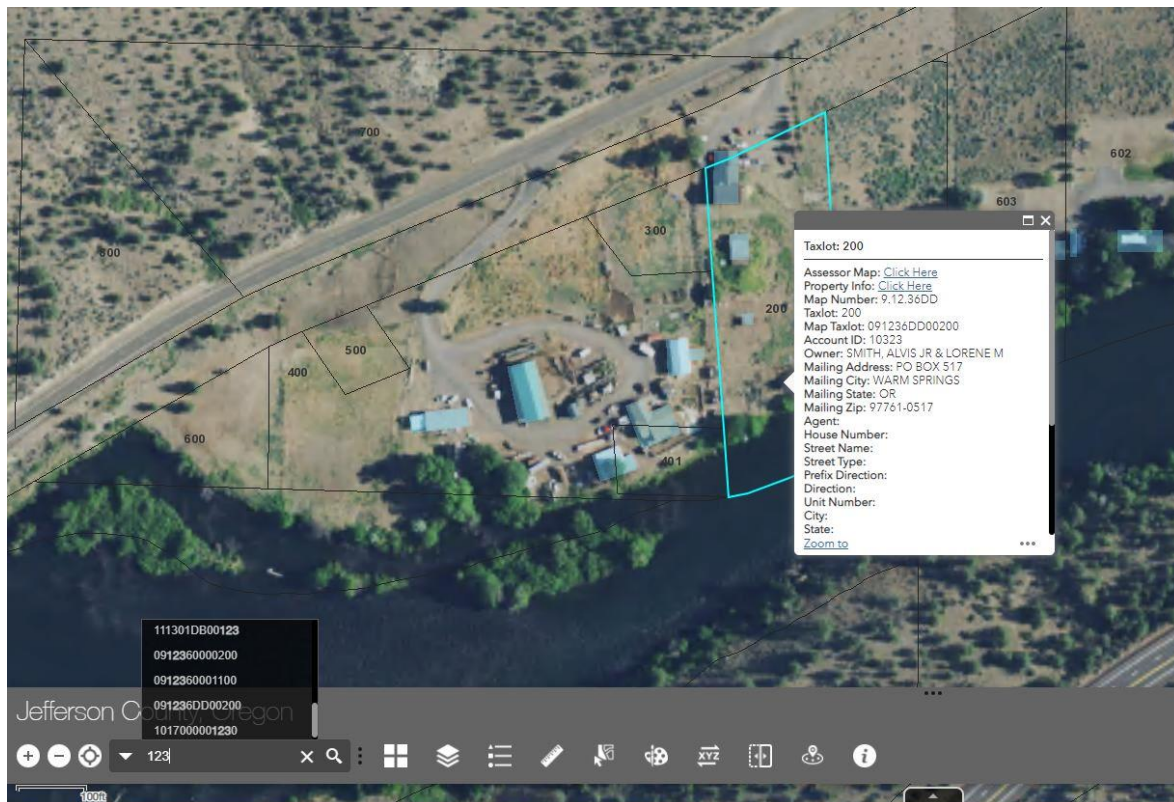
Wildcard Search



Without selecting a dataset to search, all possibilities from all datasets are returned:



Selecting a value in the array of choices returned with a single click will zoom the map view to the feature, select it in the map with a light blue color, and open the informational pop-up:



Zoom & Pan Navigation



D. *Zoom* (Bottom left corner of the map view, to the left of the search window)

Using the mouse wheel is the quickest way to zoom in and out of the map. Pushing the wheel away from you will zoom the map **in** and pulling the mouse wheel toward you will zoom the map **out**.

Use the plus/minus toggle in the lower left of the map view next to the search window as an alternative to scrolling with the mouse wheel.

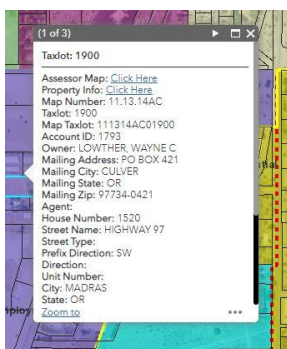
Pan

To pan within the map, use the left mouse button by holding it down and moving the mouse in the direction you would like to view the map.

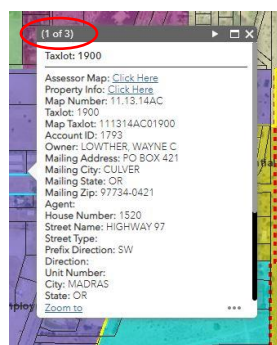
Identify & Pop-Up

To identify any feature in the map, click on it or in it with the mouse cursor and a pop-up will appear.

Within the pop-up window, in the upper left-hand corner, the number in the parenthesis will indicate how many map features have been info'ed on.



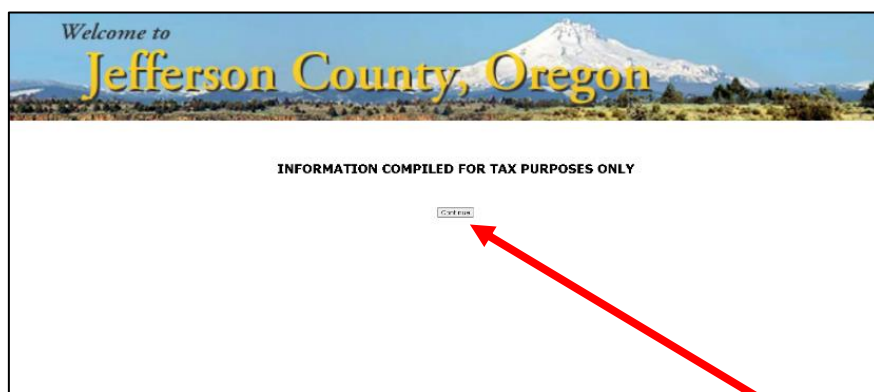
Click the arrow in the upper right corner of the pop-up window to toggle through the features identified.



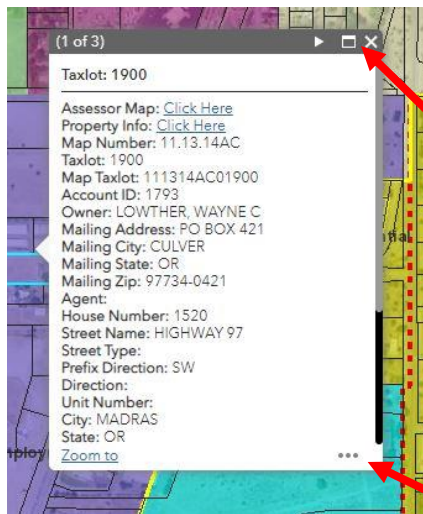
***Specifically for the Taxlot dataset pop-up, there are two links at the top.

Assessor Map = Pulls up the associated assessor map in a new web browser page.

Property Info = A new web browser page will show the Assessor's Office disclaimer page.



To access the Assessor record after clicking the pop-up link, click the *Continue* button, to continue onto the account information for the respective taxlot that was info'ed on within the map.



Click here to expand the pop-up to full screen

Click the ellipsis to

- Pan to the info'ed feature
- Add a marker where the pop-up originated
- View the selection in the Attribute Table

Reset Map



Reset Map - Using your web browser's refresh button (Google Chrome pictured).

Returns the map its startup view. The map will return to its original extent, and engage specific startup layers:

Taxlots	(Thin, black outlines)
Address	(When zoomed in)
Building Footprints	(When zoomed in)
2020 0.6 meter Imagery	
2018 12 inch Imagery	

WIDGETS

User Location Indicator



E. *My Location* (in the lower left of the map view near the search window)
Will zoom the map view to the user's location.

The location will be indicated by blue circle with a white outline:



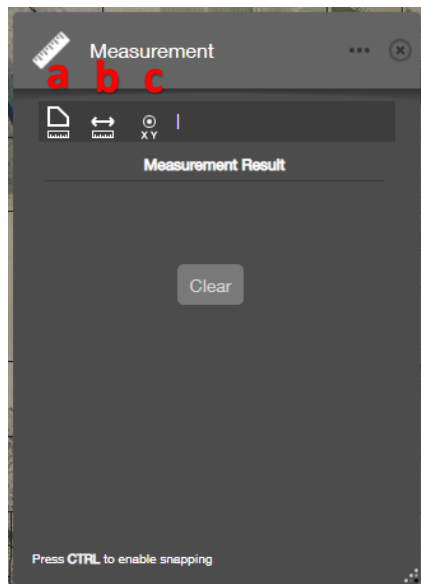
To stop showing location, click the square **Stop** symbol, which will show in the same place as the My Location button.



Measurement



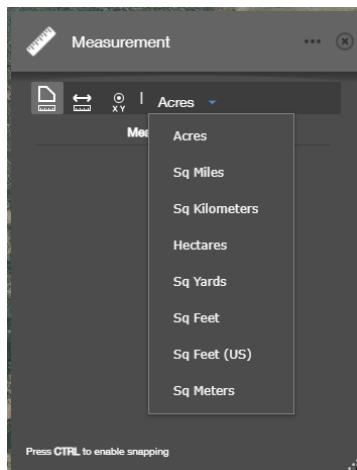
F. *Measurement*



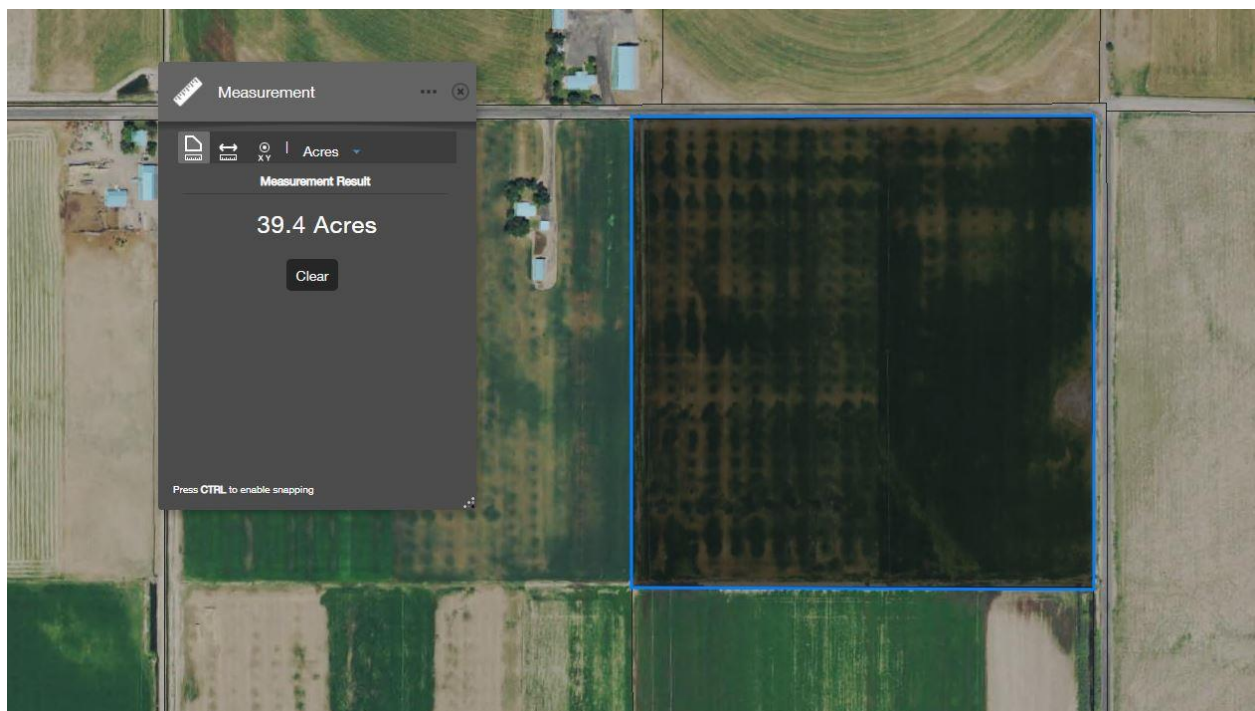
To increase the size of the widget
dialogue, click and drag the lower
right corner until sized accordingly.

- a** *Area*
- b** *Distance*
- c** *Location*

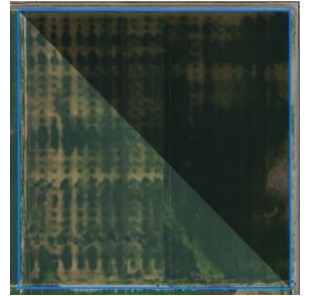
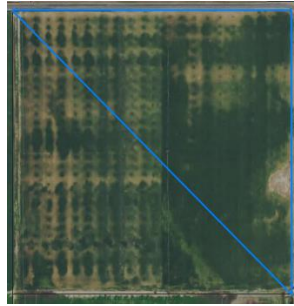
a. *Measuring Area*



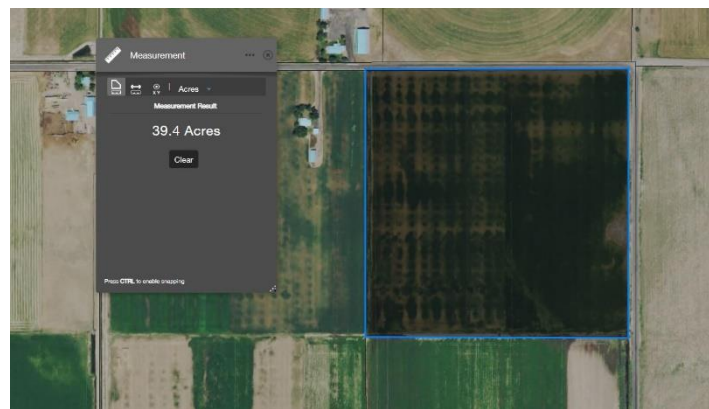
With the measure area button selected, the options for measurement units can then be viewed and selected using the drop-down menu on the right.




To begin measuring an area, place the cursor in desired start location and left click once. Then left click in the desired location of each corner to establish the intended area.

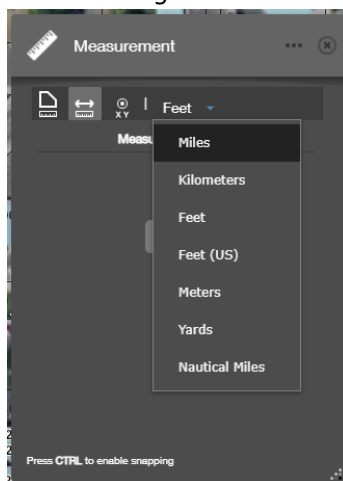


To finish drawing the area, when placing the last corner/point, double click the left mouse button. The result will be a blue shape, with a shaded interior, and a total area listed in the widget dialogue:



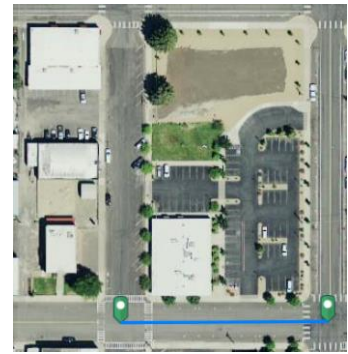
Click the  button to erase the current measurement and begin measuring again.

b. *Measuring Distance*



With the measure distance button selected, the options for measurement units can then be viewed and selected using the drop-down menu on the right.

To begin measuring a distance, place the cursor in desired start location and left click once (do not hold mouse button down). Drag the mouse, then left click in the desired location at the end to establish the intended distance measurement.

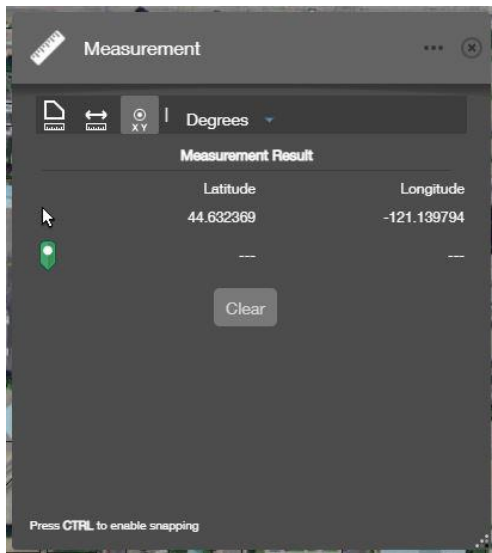


To measure a multi-directional line, keep left clicking the mouse along the desired course.



To finish drawing the desired course or distance, double click with the left mouse button in the last location to terminate the draw.

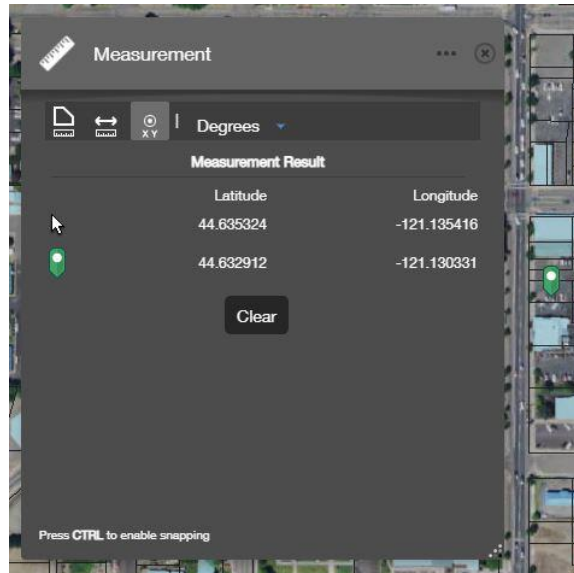
c. *Plotting Location Coordinates*



With the Location button selected, the choice for units are Decimal Degrees and DMS (Degrees, Minutes, Seconds). These can be found in the drop-down menu on the right.

The resting coordinates of the cursor, when positioned in the map view, will return the coordinates to the right of the mouse cursor image, as seen in the *Measurement* dialogue, under Latitude and Longitude. At any time the latitude and longitude of the mouse cursor can be viewed in the lower right hand corner of the map view.

44.612 -121.200 Degrees

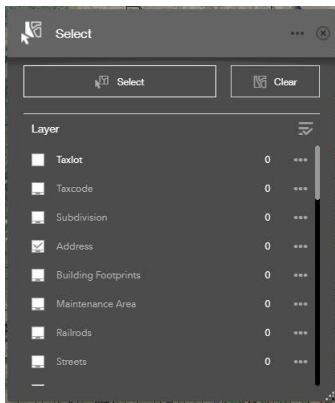


A left click of the mouse in the map view will place a point, which will have its latitude and longitude measured out in the dialogue next to the image of the map marker.

Select



G. Select Widget

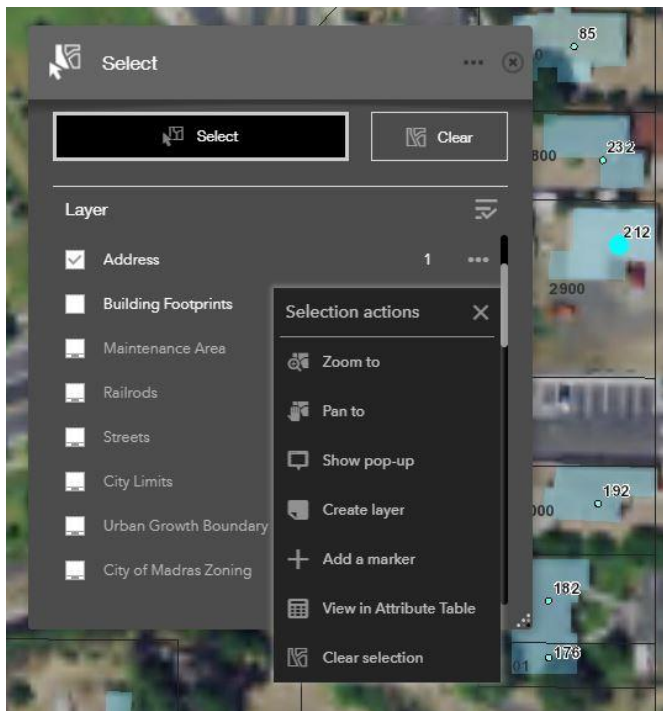


To select a feature in the map, left click the *Select* button.

***Datasets that are automatically engaged at map startup will be toggled on in the *Select* widget. To select features from one dataset, uncheck the corresponding boxes next the dataset title in the *Select* dialogue. Otherwise, the widget will return a selection of all features under the desired feature, that includes every engaged dataset.

For example, to just select an address point, uncheck any checked box other than Address.

With an address point selected, click the ellipsis, as seen to the right of the Address listing in the Select dialogue, will provide *Selection actions* with regards to functionality for the selection.



Under the *Selection actions*, there will be an array of choices. Some of these are obvious (i.e. Zoom to, Pant to, etc.)

Create layer

This function places your selection into the layer list, and the selection options of the Select widget. This will allow the selected features to be toggled on or off and the transparency to be configured. Upon refreshing the web browser, the newly created layer from the Select widget will be deleted.

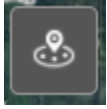
Add a marker

Places a dark blue pin marker upon the selected map feature. Upon closing or refreshing the web browser, the marker will be deleted. *This command is only available when a single feature is selected.*

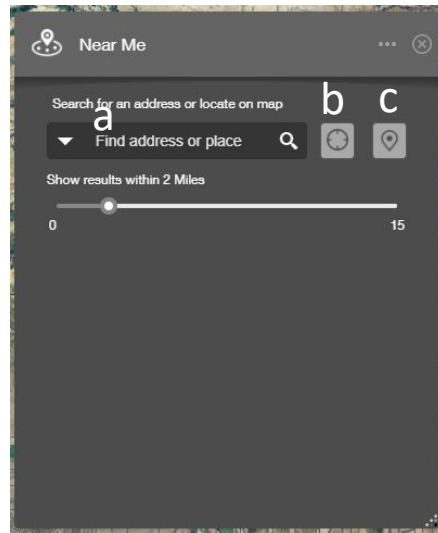
View in Attribute Table

For instruction on this function, please advance to the *Table View* section of this tutorial.

Near Me



H. *Near Me*

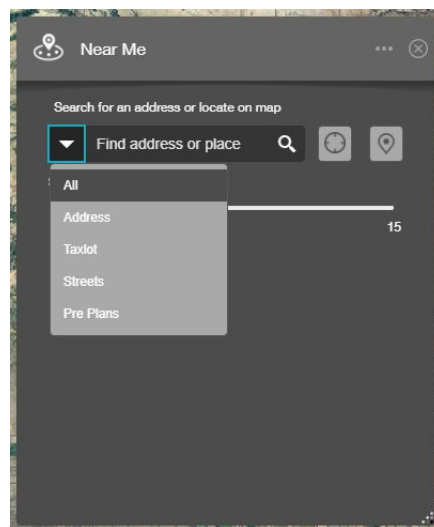


Search Options



- a. Search Window
- b. My Location
- c. Point

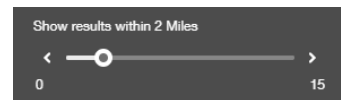
Search Window

From the drop-down on the left side of the search window, select which dataset to search or enter a Taxlot, Address, Street, or Pre Plan location name into the search window and then click the magnifying glass.



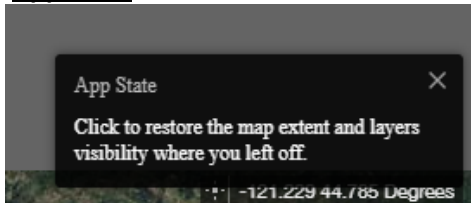
-OR-

Choose to search from either *My Location*  or drop a point 



Limit the results returned by using the slider to query the data from 0 miles to 15 miles.

App State



I. *App State* (pop-up in the lower right corner of the web browser at map start-up, after a moment it will disappear again)

Clicking this pop-up returns the map to its previous extent and data selection at the time that it was previously closed.

****NOTE:** App State will not function if the computer has been restarted.

Table View



J. *Table View* (in the bottom center of the map view, click the up arrow to bring up *Table View*)

Taxlot Address Building Footprints											
Options Filter by map extent Zoom to Clear selection Refresh											
MAPNUMBER	TAXLOT	MAPTAXLOT	ACCOUNT_ID	OWNER	M_ADDRESS	M_CITY	M_STATE	M_ZIP	AGENT	HOUSE_NUMB	STREET_NAM
9.11	200	0911000000200	10,273	CONFEDERATED TRIBES OF THE	PO BOX C	WARM SPRINGS	OR	97761-3001	WARM SPRINGS RESERVATION		
9.13	100	0913000000100	10,325	WARM SPRINGS INDIAN RESERVATION	PO BOX 1188	WARM SPRINGS	OR	97761-1188			
9.8	200	0908000000200	10,267	U S A							
9.14.5	100	0914050000100	218	U S A							
9.14.5	200	0914050000200	219	HASS, RICHARD M ET AL	1643 SE MCBROD AVE	MILWAUKIE	OR	97222-7490			
13.13.18	200	1313190000200	5,972	U S A							
11.14.6	1301	1114060001301	2,537	MARKWARDT, GREGORY SCOTT ET AL	466 NE DOVE DR	MADRAS	OR	97741-9127		466	DOVE DR

The available datasets in table view are listed across the top in tabs. Only datasets that are toggled on in the *Layer List* (see section A) will be available to view in the table view. In the example screenshot above, Taxlot is the selected dataset tab. As a result, the fields for Taxlots are visible below the dataset tab and options array.

In the next screenshot example, the Address dataset tab has been selected. Respective fields from the Address table are displayed (i.e. Community, Full Address, etc.).

Taxlot

Address

Building Footprints

Options

Filter by map extent

Zoom to

☒ Clear selection

COMMUNITY	FULL_ADDRESS	PREFIX_DIRECTIONAL	STATUS	JURISTCID
MADRAS	150 E B ST	E	COUNTY	
MADRAS	340 NE CLEARVIEW CT	NE	COUNTY	
MADRAS	466 NE DOVE DR	NE	COUNTY	
MADRAS	487 NE DOVE DR	NE	COUNTY	
MADRAS	265 NE CLEARVIEW CT	NE	COUNTY	
MADRAS	268 NE CLEARVIEW CT	NE	COUNTY	
MADRAS	12894 NF COI EMAN RD	NF	COUNTY	

10001 features 0 selected

By clicking the drop-down arrow next to *Options*, choices for *Filter*, *Show/Hide Columns*, and *Export to CSV* become available for selection.

Taxlot

Address

Building Footprints

Options

Filter by map extent

Zoom to

Clear selection

Refresh

Show selected records

Show related records

Filter

Show/Hide columns

Export all to CSV

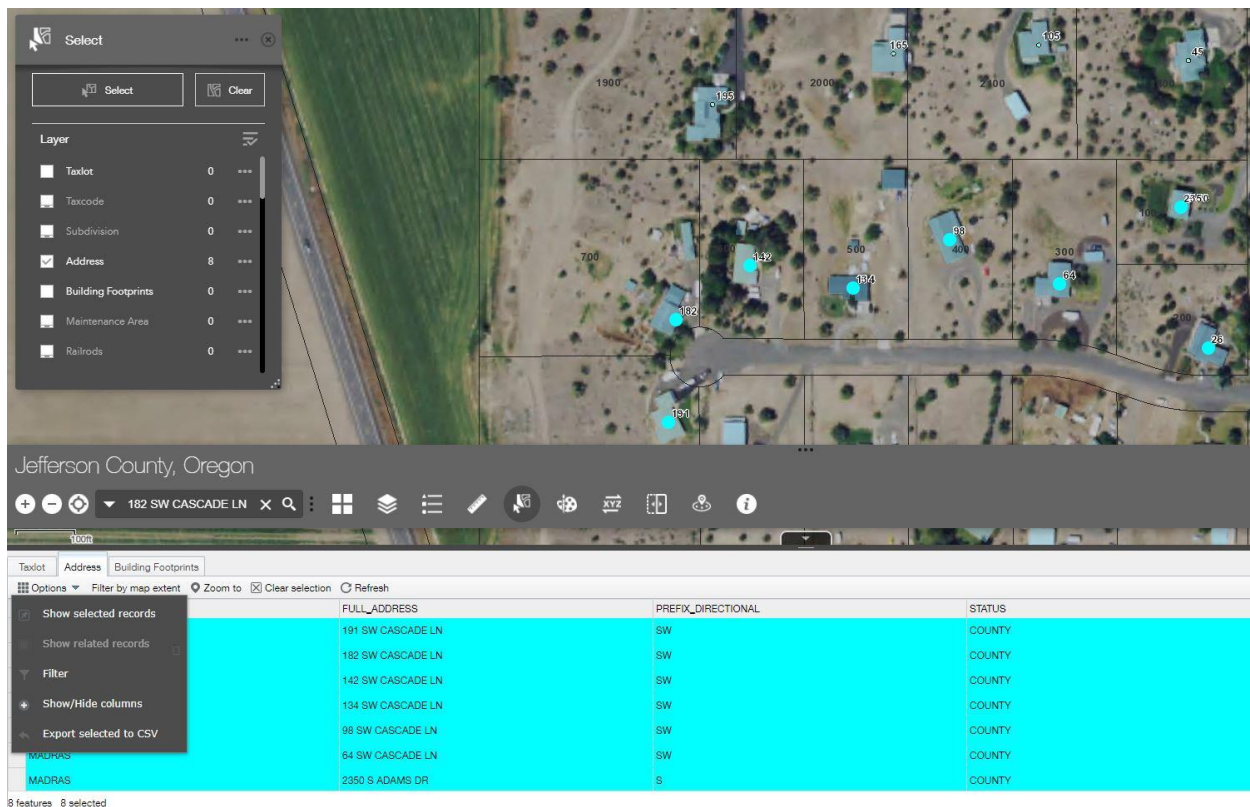
	FULL_ADDRESS	PREFIX_DIRECTIONAL
	150 E B ST	E
	340 NE CLEARVIEW CT	NE
	466 NE DOVE DR	NE
	487 NE DOVE DR	NE
	265 NE CLEARVIEW CT	NE
MADRAS	268 NE CLEARVIEW CT	NE
MADRAS	12894 NE COLEMAN RD	NE
MADRAS	12400 NE HIGHWAY 97	NE

10001 features 0 selected

If features are selected in the map view (highlighted in light blue), within the ellipsis dialogue of the Select widget, *View in Attribute Table* can be selected to view the values associated with the selected feature.

Or

With the Table View open, click the *Show Selected Records*, under the *Options* drop-down to then see the selection viewable in the table.

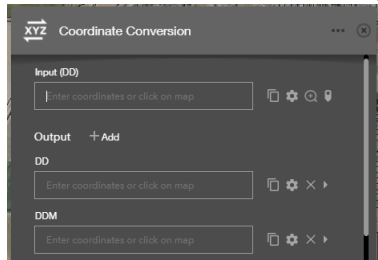


Coordinate Conversion

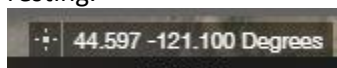
K. Coordinate Conversion



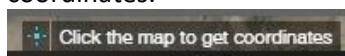
The *Coordinate Conversion* widget transforms coordinates from one format to another.



In this example, the input format is **Decimal Degrees (DD)**. The map displays coordinates in decimal degrees. In the lower righthand corner of the map, is the coordinate display of where the cursor is resting.



Click the cross hairs located to the left of the coordinate display, to enable clicking into the map for coordinates.

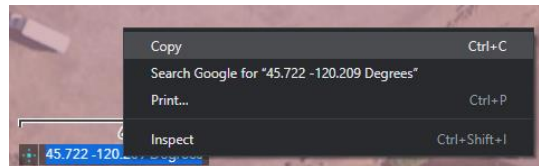


Click on the desired location within the map view and the coordinates will populate in this window in decimal degrees.

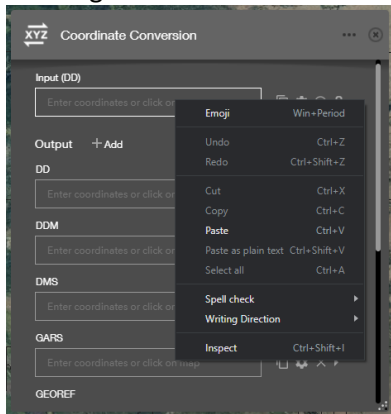


A pin will appear on the location clicked in the map and the coordinate view will be populated with the decimal degree values.

These coordinate values can be copied and pasted into the conversion widget. Highlight the coordinate values with the mouse cursor, then right click and select the *Copy* option.

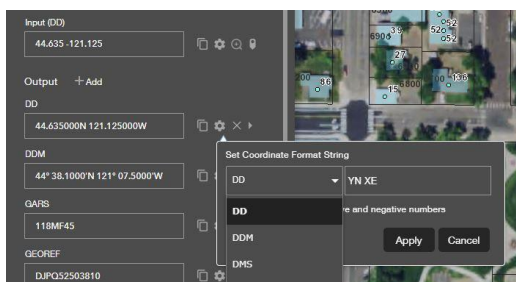


Then right click into the *Coordinate Conversion Input* window and select the paste options.

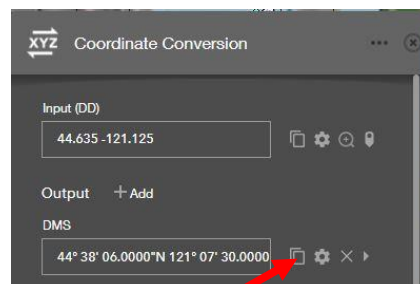


To convert from decimal degrees to degrees minutes seconds, for example, once the coordinates from the map are pasted into the input window, click the **Output + Add** button.

Then the output window will appear, which if **DD (decimal degrees)** appears, you will want to click the sprocket for format selection.

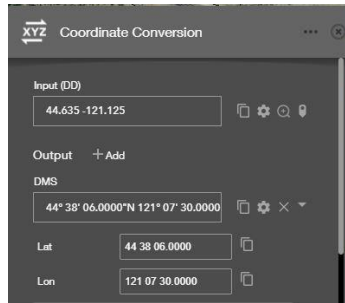


To convert to **degrees, minutes, seconds**, select the option titled **DMS**. Then click the Apply button.



To copy the output from the conversion, select the *tile* icon. The output can then be pasted to the desired location, i.e. email, word document, web source, etc.

To copy the individual latitude and longitude values, click the right facing arrow to the right of the output window.



Draw

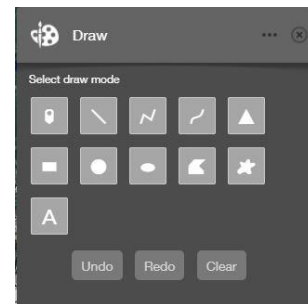


L. *Draw*

Click the *Draw* widget to see the drawing options.

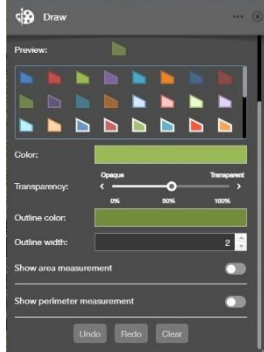
The button array within the widget allows a variety of mark-up options:

- Point
- Line
- Polyline
- Freehand Polyline
- Triangle
- Map Extent
- Circle
- Ellipse
- Polygon
- Free Hand Polygon





Other markup options:



Color

Transparency

Outline color

Outline width

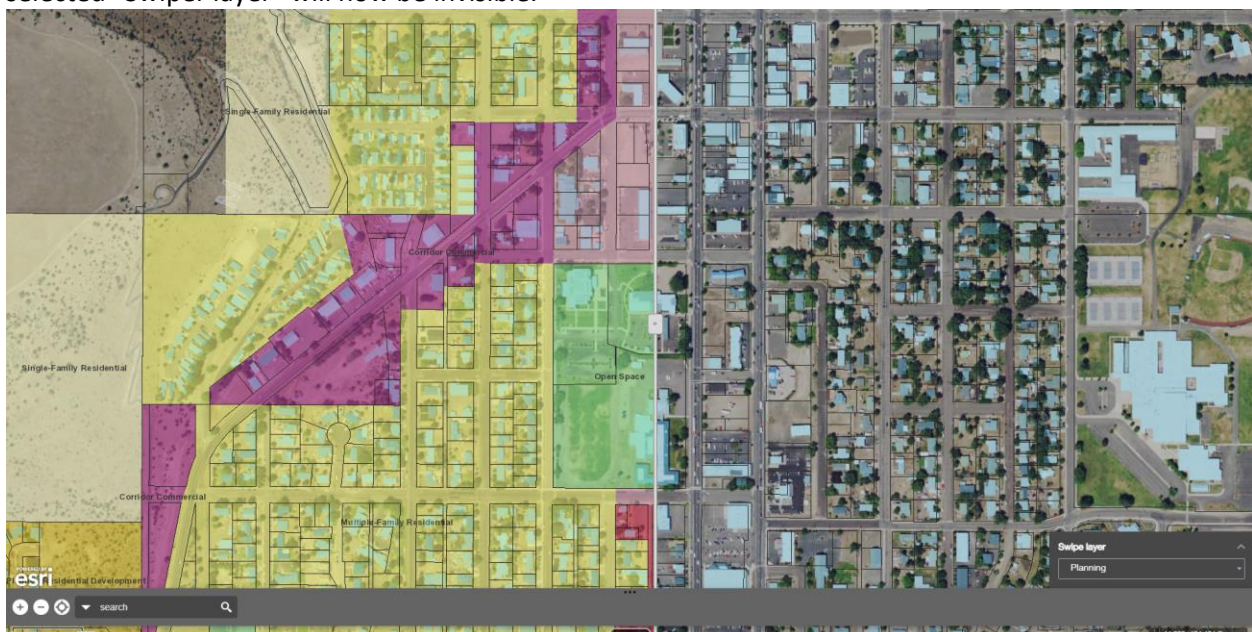
Area and linear measurement of markup

Swipe



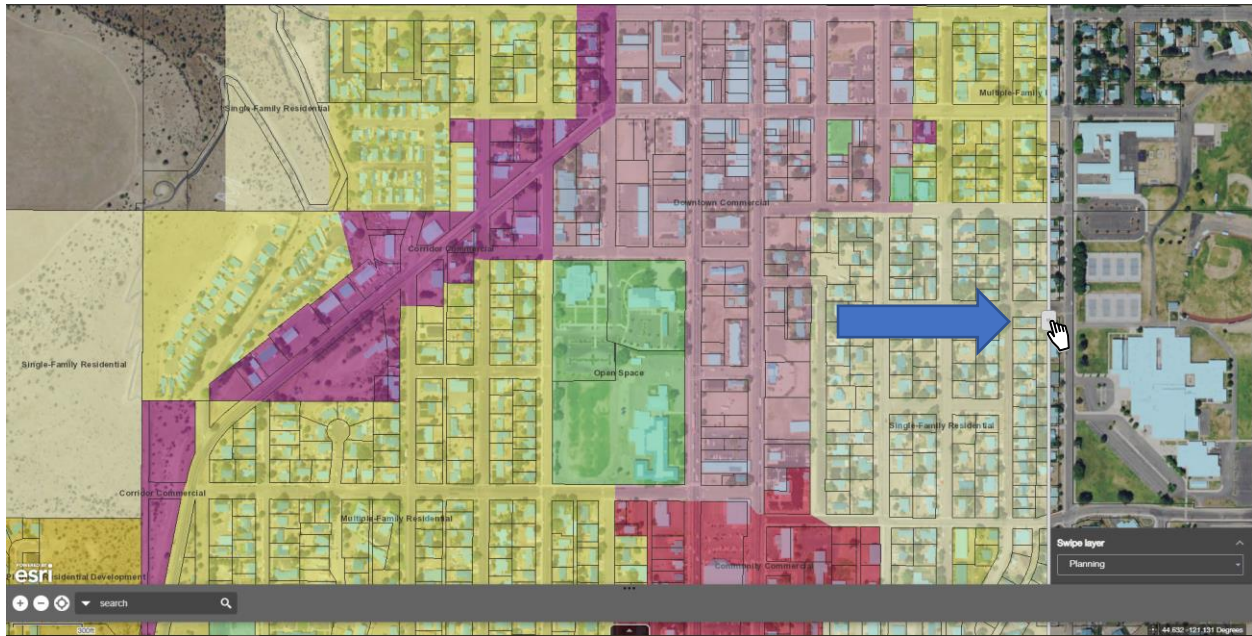
M. Swipe

The *Swipe* widget is used to gradually remove a layer to see what lies beneath it. Click the *Swipe* icon to open the widget, and a vertical slider will appear in the center of the map view, and half of the currently selected “Swiper layer” will now be invisible.

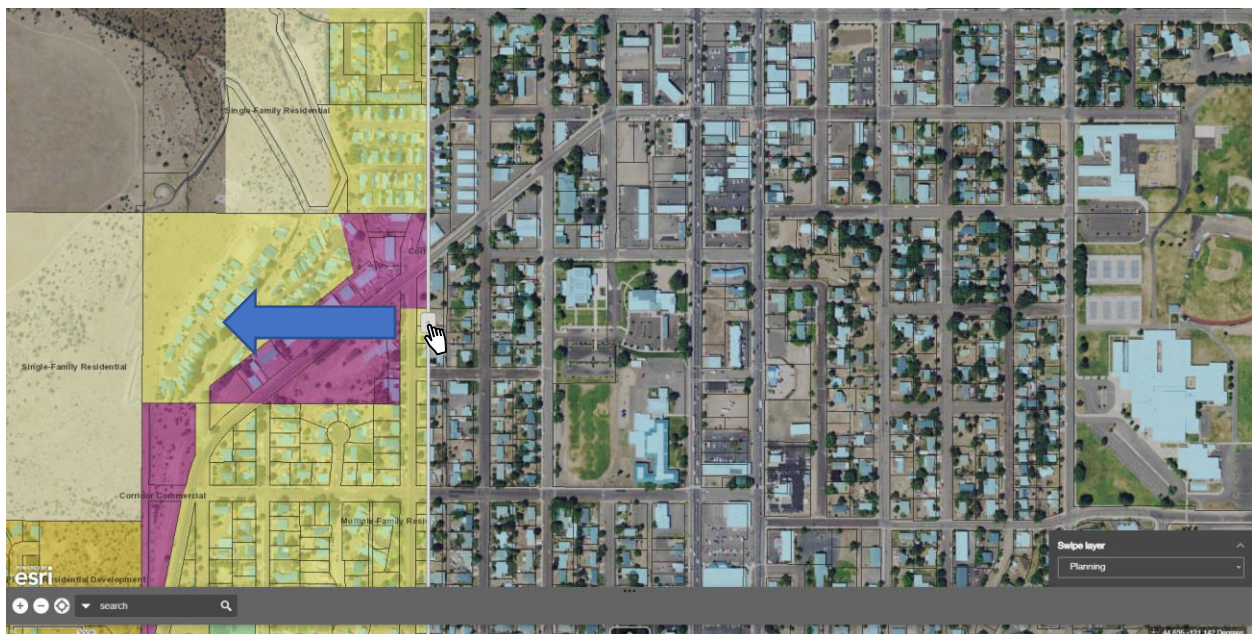


To adjust the amount of the layer that is showing, left click and hold over the slider and drag side to side.

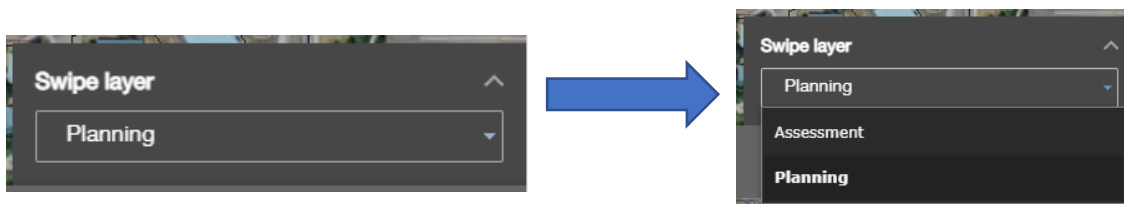
Clicking and dragging to the right will engage more of the layer.



Clicking and dragging to the left will engage less of the layer.



If multiple *data groups* are turned on, you can choose which one will be engaged by the *Swipe* widget by selecting a “Swipe layer” from the drop-down menu in the lower righthand corner of the map view.



To close the *Swipe* widget, click the three dot ellipsis near the center of the map toolbar.

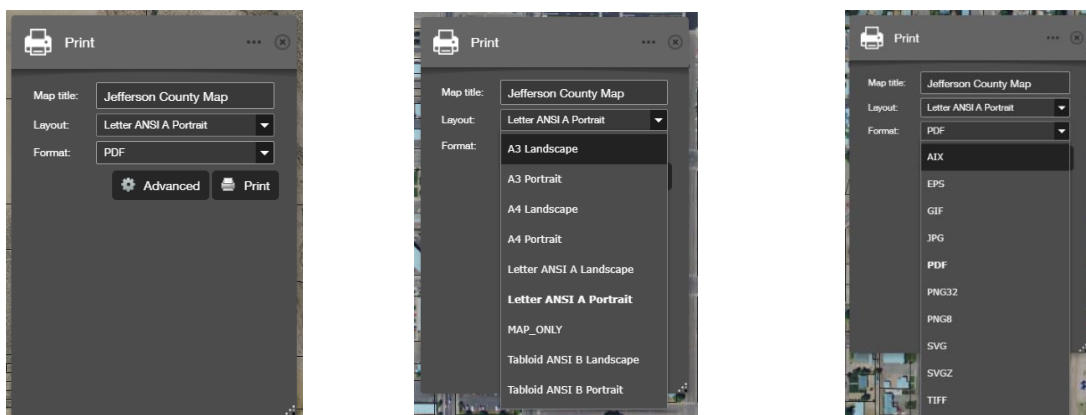


Print




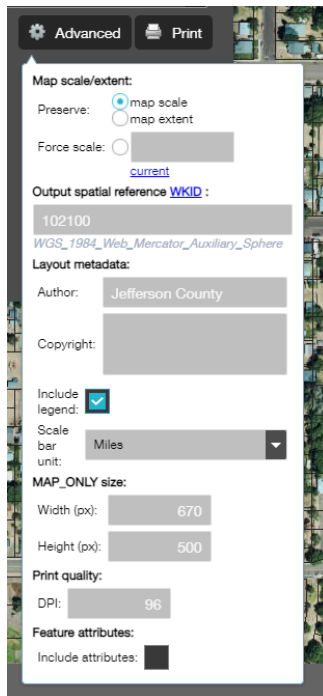
N. Print

This widget allows the user to create a map to be printed or used electronically. Click the *Print* icon in the array of widgets, and a printing dialog window will open. In the Initial view, the user can choose a title, layout/size, and format for their map.



Use the drop-down arrows to see all the options to configure the output of the map.

Additional options may be configured by clicking the Advanced dialog.  This allows for options such as the addition of a legend, and changes to scale bar units and print quality (DPI).

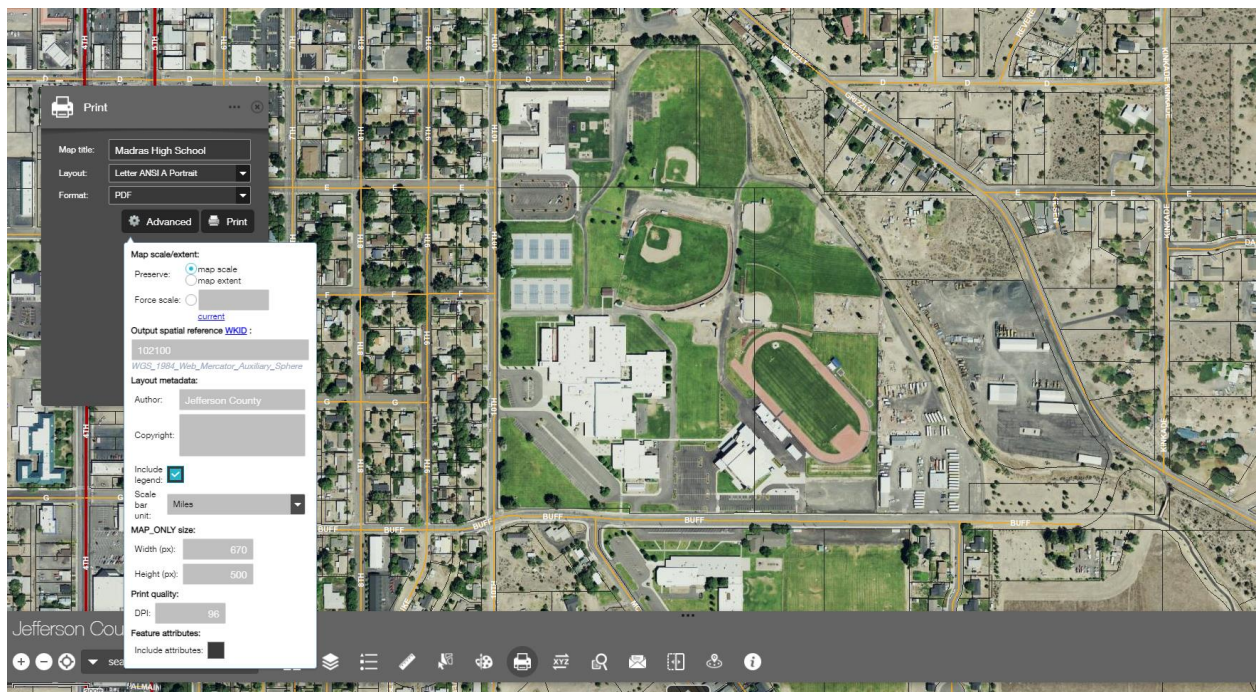


Advanced **Print**

Map scale/extent:
 Preserve: ☒ map scale ☐ map extent
 Force scale:
 Output spatial reference WKID :

 WGS_1984_Web_Mercator_Auxiliary_Sphere
 Layout metadata:
 Author:
 Copyright:
 Include legend: ☒
 Scale bar unit:
 MAP_ONLY size:
 Width (px):
 Height (px):
 Print quality:
 DPI:
 Feature attributes:
 Include attributes: ☐

To create a map, center your desired area within the map frame, and turn on all desired layers using the *Layer List* (see section A). The following example creates a map of Madras High School



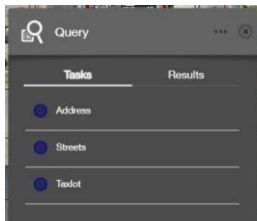
****NOTE:** Upon viewing of the final output, the position of the desired area may need to be adjusted

Query



O. Query

Click the *Query* widget to see the datasets available.



Three datasets are available for query:

Address

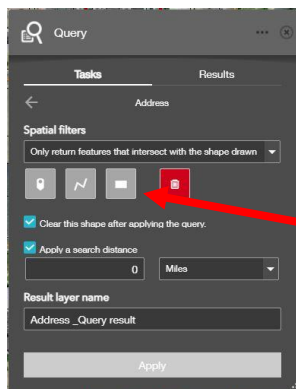
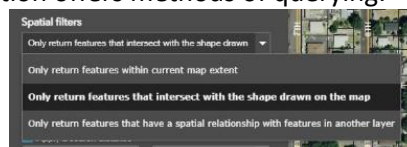
Road

Taxlot

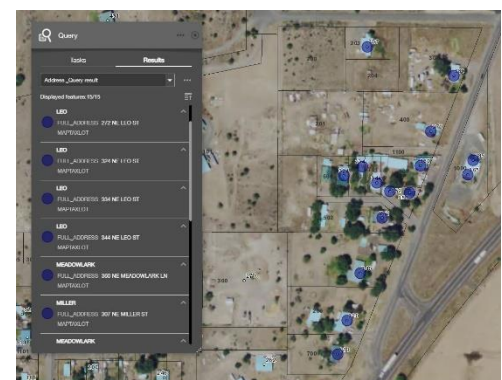
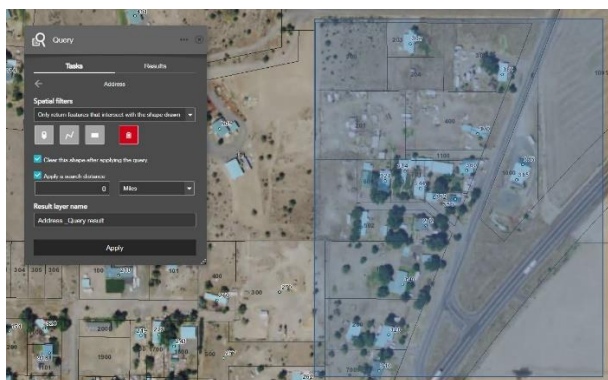
After selecting one of the datasets to query, the following dialogue appears:

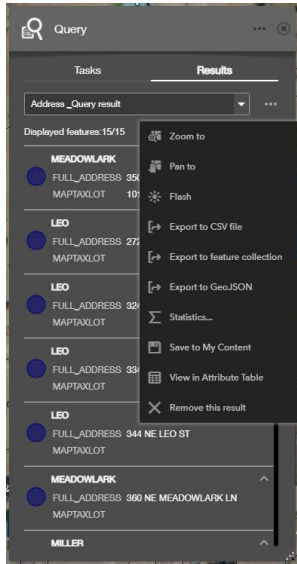
Spatial filters

This selection offers methods of querying:



To capture multiple features within a query, use the *Extent* button. Then click the *Apply* button.





The *Results* tab will show an ellipsis that when clicked provides these options:

Zoom to - changes the map view to focus on the feature of inquiry
Pan to - changes the map view to focus on the feature of inquiry, while keeping the same zoom level

Flash – shows location of feature listed

Export CSV- outputs a text file of the query results that can be used in MS Excel

Export to feature collection - available to users with an ArcGIS Online account

Export to GeoJSON - available to users with an ArcGIS Online account

Statics - Configurations are still under development

Save to My Content - available to users with an ArcGIS Online account

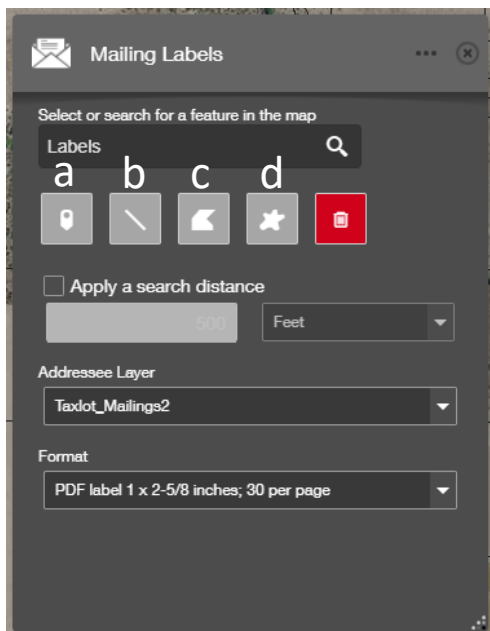
View in Attribute Table - See query selection by clicking the table view

Mailing Labels



P. Mailing Labels

This widget allows the user to create a list of formatted names and addresses for mailing notifications. This list is created based on a selection of taxlots.

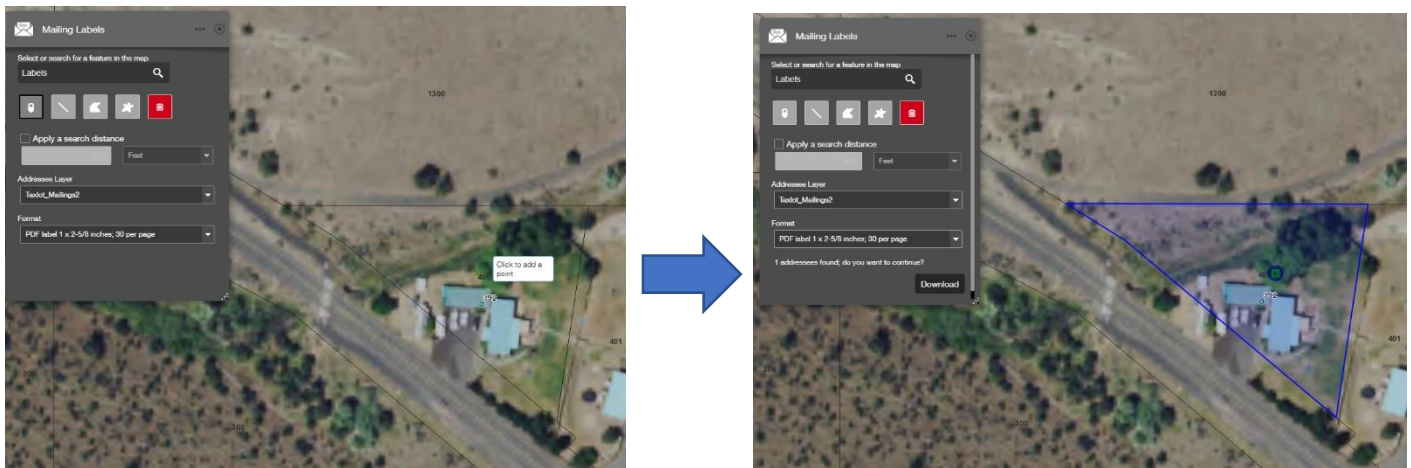


There are four available selection methods:

- Point
- Line
- Polygon
- Freehand Polygon

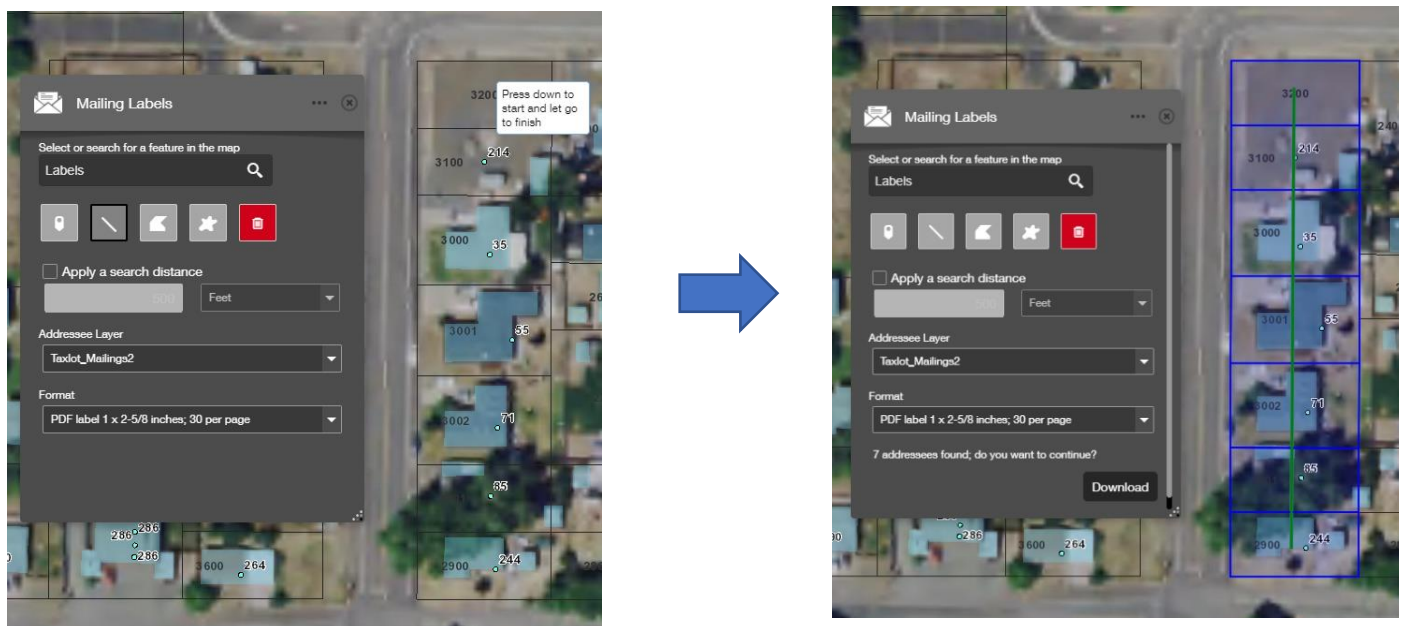
a. Point

With the Point option selected, hover over the desired taxlot and left click once to drop a point. This will select the taxlot.



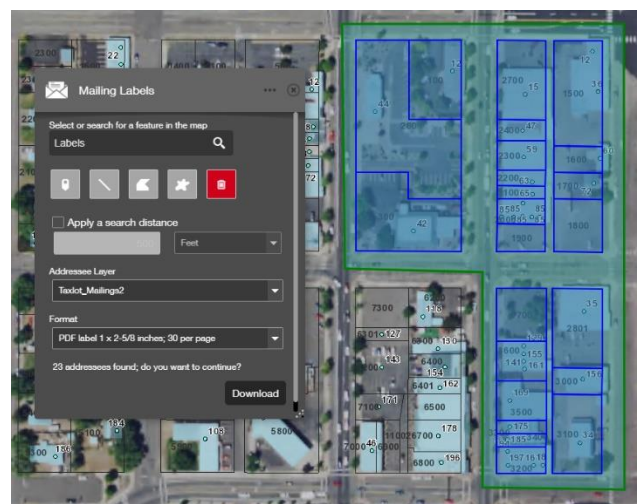
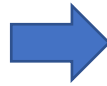
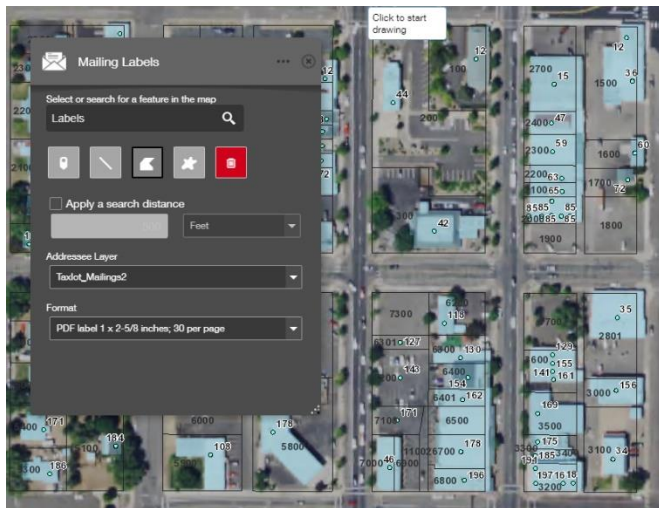
b. Line

The Line selection option will select all features that the line passes through. With this option selected, click and hold the left mouse button, drag to draw the line, and let go when finished.



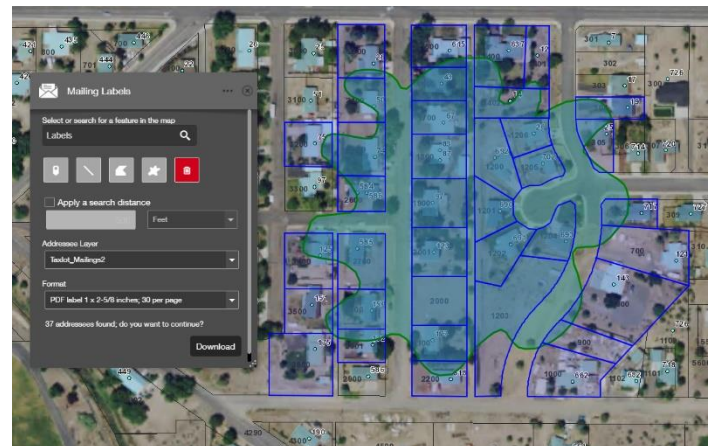
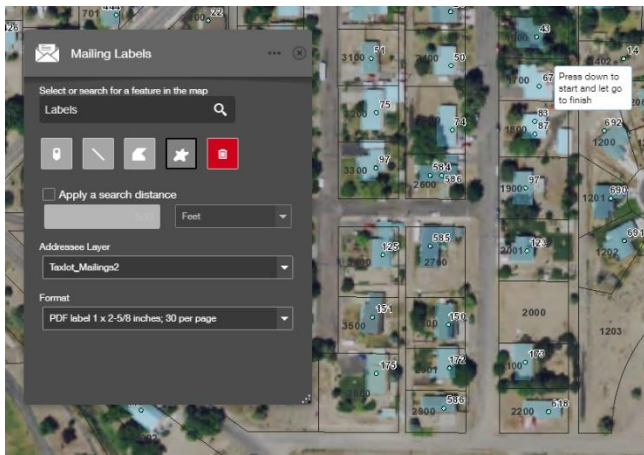
c. Polygon

This option allows the user to draw a polygon around a group of taxlots. This is done by connecting a series of lines to form a polygon. Begin by left clicking once where you wish to start the polygon and click each time you wish to change direction. Double click to finish.

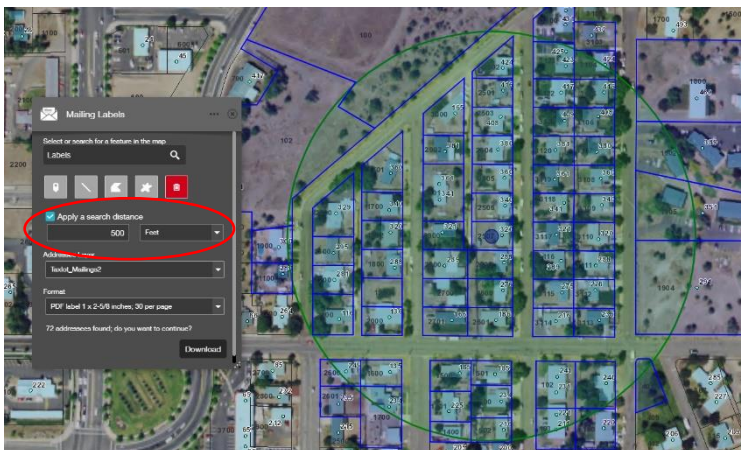


d. Freehand Polygon

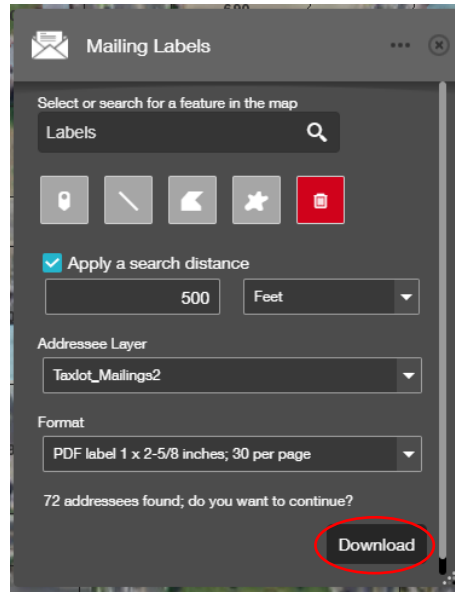
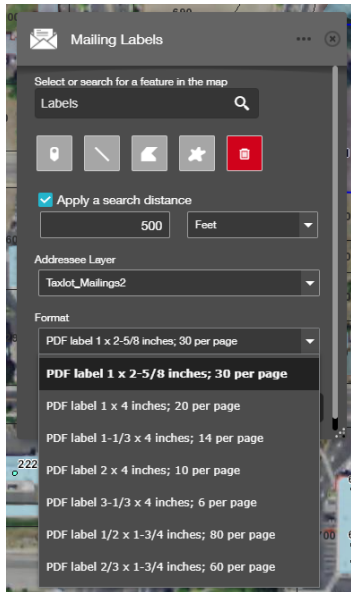
Similar to the line option, the user will click, hold and drag. With the Freehand Polygon option, however, the user can move the mouse in any direction to create complex polygons.



All selection methods also have the option to create a buffer of a specified distance around the initial selection. All taxlots that intersect the buffer will be selected.



Once the selection is made, choose the desired output format, and click 'Download'. The user will be prompted to save the list as a PDF document.



SUMNER, PAUL F & JUDY L PO BOX 16 MADRAS, OR, 97741-0006	LEGGETT, NORMA J & BARNES,.... 276 NE 9TH ST MADRAS, OR, 97741-2619	RAMIREZ, GUADALUPE HERNA... 416 NE 9TH ST MADRAS, OR, 97741-1863
DELAMARTER, SCOTT & KRISTI... 1851 NE SQUIRE DR MADRAS, OR, 97741-9401	MC GEE, JEREMY S 380 NE 10TH ST MADRAS, OR, 97741-1824	STEVENS, KATHY C 166 NE OAK ST MADRAS, OR, 97741-1804
MARTIN, AARON & SHANNON 7729 NE WARD LN MADRAS, OR, 97741-9578	MADRAS, CITY OF 2445 SW CANAL BLVD REDMOND, OR, 97756-9593	WHITAKER, JOSEPH R & TERES... 469 NE 10TH ST MADRAS, OR, 97741-1825
COLMAN, DOROTHY E 234 NE 9TH MADRAS, OR, 97741-1816	O'MEARA PROPERTIES LLC 13935 HWY 22 DALLAS, OR, 97338-9304	KERBOW, TIMOTHY L & KELLY J 381 NE 8TH ST MADRAS, OR, 97741-1812
POTTER, DAVID A 205 S 1ST ST SILVERTON, OR, 97381-1648	MCLAUGHLIN, DOYLE R 360 NE 8TH ST MADRAS, OR, 97741-1813	VERA-GONZALEZ, ASHMABETT 320 NE 9TH ST MADRAS, OR, 97741-1818
LEE, KIM PO BOX 213 MADRAS, OR, 97741-0036	TAPIA, DOLLY HERNANDEZ 295 NE 7TH ST MADRAS, OR, 97741-2609	MCGUIRE FAMILY REVOCABLE ... 15980 WOODCHIP LN LA PINE, OR, 97739-9772
BALLARD, SANDRA K 416 NE 10TH ST MADRAS, OR, 97741-1826	SULLIVAN, LAWRENCE P & EDI... 3514 NW ENTRIEN LN MADRAS, OR, 97741-8910	TAYLOR, MITCHELL L & SUSAN ... 220 NE 10TH ST MADRAS, OR, 97741-1822
BISHOP, CHRISTOPHER M & BR... 340 NE 9TH ST MADRAS, OR, 97741-1818	CASTANEDA, PAULO & THOMP... PO BOX 149 ODELL, OR, 97044-0149	LANCE, DEBORAH A 408 NE 10TH ST MADRAS, OR, 97741-1826

About



Q. About

The about widget opens an informational pop-up window with basic info and important contact information for county departments.

