

# **Frontier Regional 9-1-1 Web Map**

## **Instruction Manual**

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

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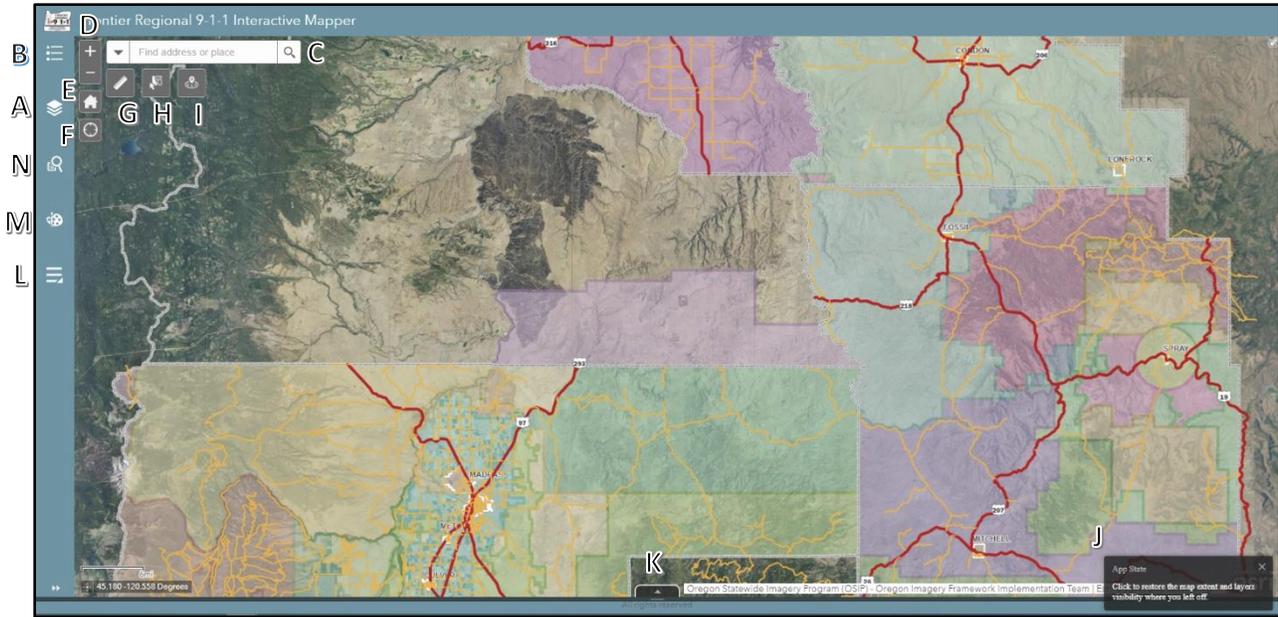
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\*\*\*The capital letter designations correspond to the image of the map on the next page, where each map element is identified by a letter.



\*\*\*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* (can be found on the left-hand side of the map frame)

Click the *Layer List* icon to see the *Layer List*. The *Layer List* will appear, and the other widgets will now appear across the top of the *Layer List*.

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

## Legend

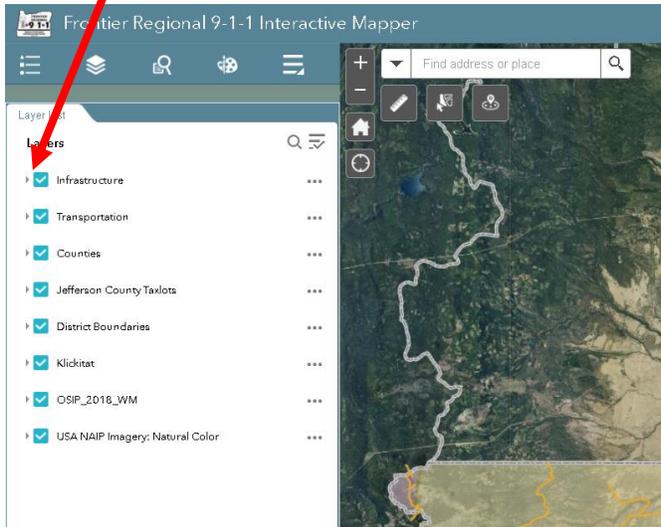


B. *Legend*

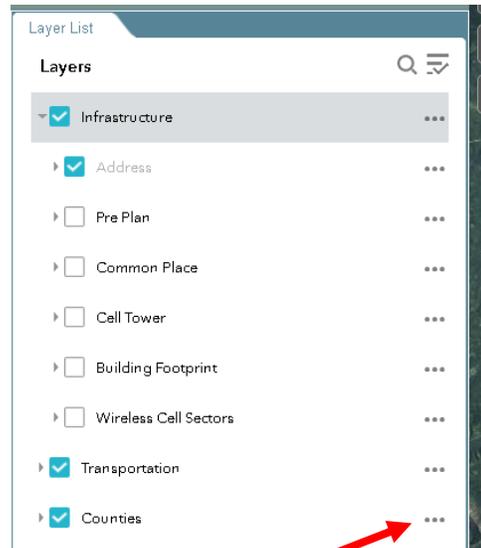
Click the *Legend* icon to expand the *Legend* view. The *Legend* is organized by the order of the category and dataset order within the *Layer List*. Only those layers that are turned on, or where the map is zoomed in far enough to activate the rendering, are visible within the *Legend*.

To collapse the *Legend*, click the right pointing double arrows at the bottom of the pane.





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

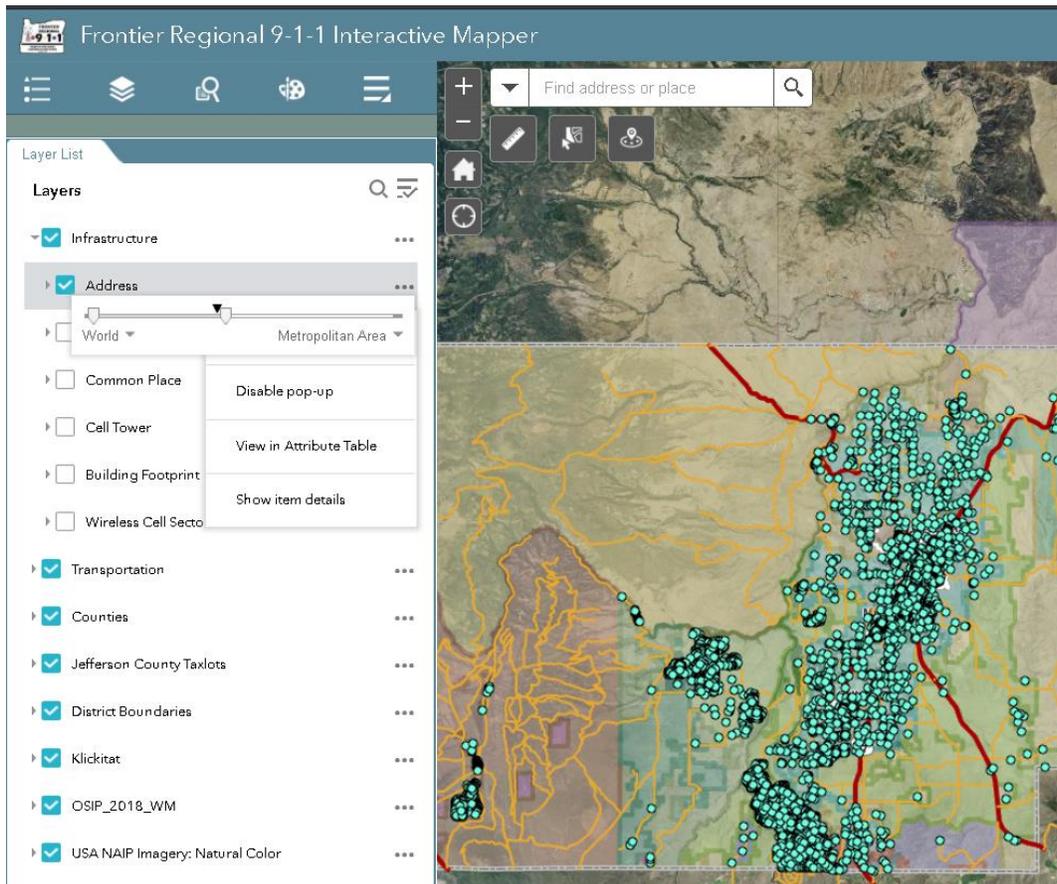


To adjust the visual aspects of the data within the map, click the ellipsis to the right of the dataset title. Clicking the ellipsis next to the data category will give these configuration options:

- 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 dataset name will give these configuration options:

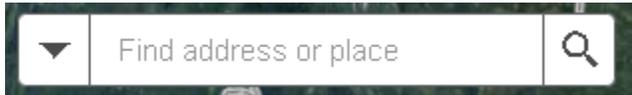
- Set visibility range*
- Disable pop-up*
- View in Attribute Table*
- Show item details*



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.

## Search Window

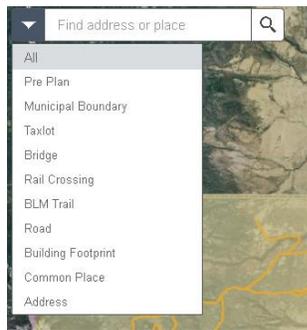


C. *Search Window* (in the upper left of the map view)

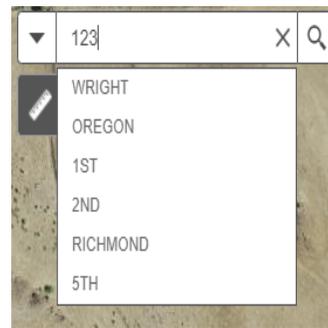
- a. Click the drop down to select specific dataset to search

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:

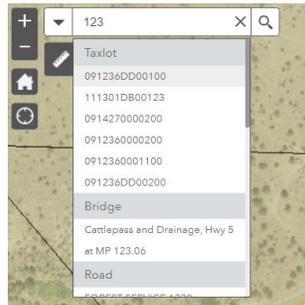
*List of possible layers to search*



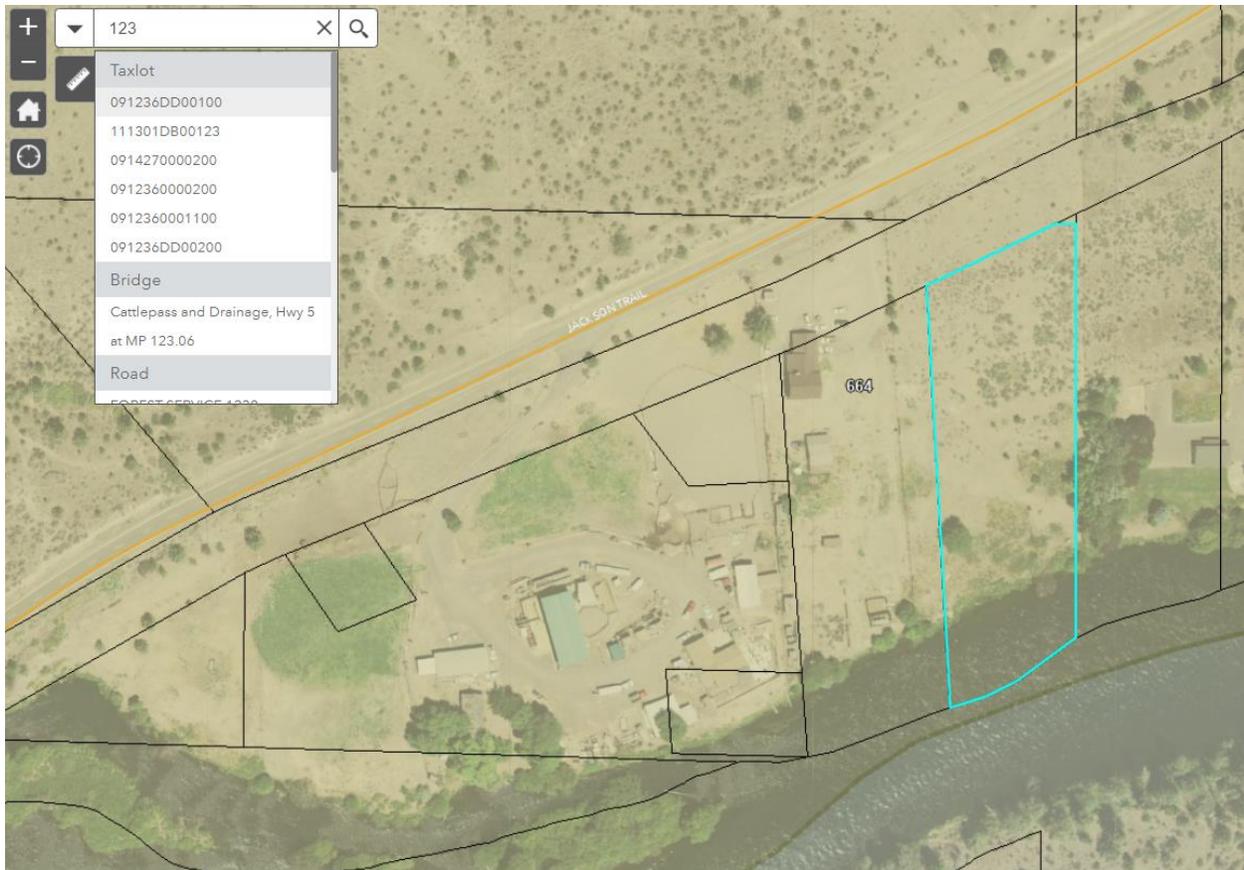
*Wildcard Search*



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 and select it in the map with a light blue color:



## **Zoom & Pan Navigation**



D. *Zoom* (Upper 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 to you will zoom the map **out**.

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

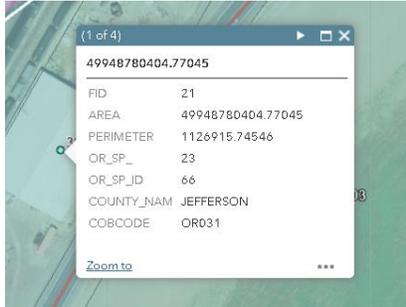
## **Pan**

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.

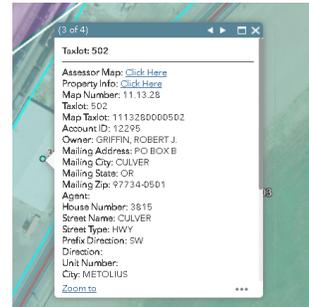
## Identify & Pop-Up

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.



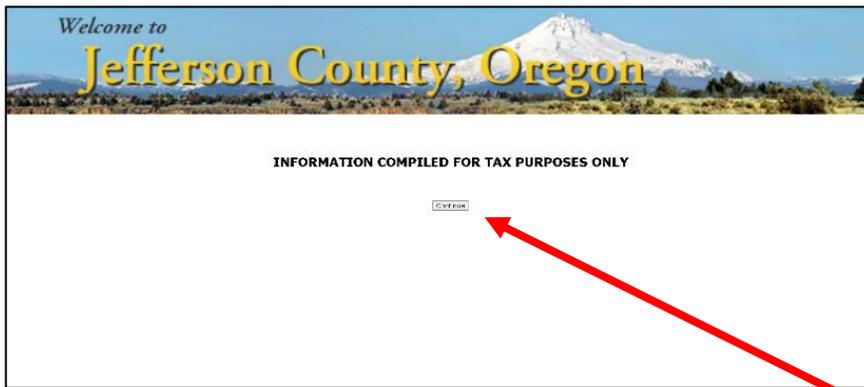
Click the arrow in the upper right corner of the pop-up window to toggle through the features identified.



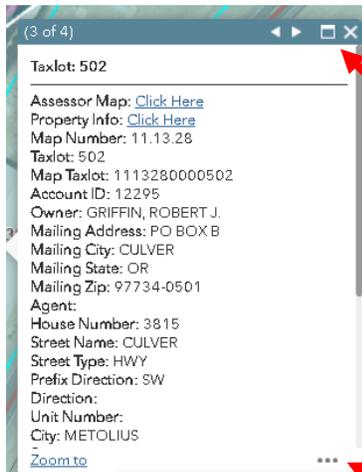
\*\*\*Specifically for the Taxlot dataset pop-up, there are two links at the top.

*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



E. *Reset Map* (in the upper left of the map view, next to the search window)

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

- |                        |   |
|------------------------|---|
| Emergency Service Zone | (visible colored areas)                         |
| Road                   | (Orange lines = arterial, Red lines = highways) |
| Taxlots                | (Jefferson County only, when zoomed in)         |
| Address                | (when zoomed in)                                |
| County boundaries      | (dashed line)                                   |
| Municipal boundaries   | (White line)                                    |
| 2018 12 inch Imagery   |   |

## WIDGETS

### User Location Indicator



F. *My Location* (in the upper 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:



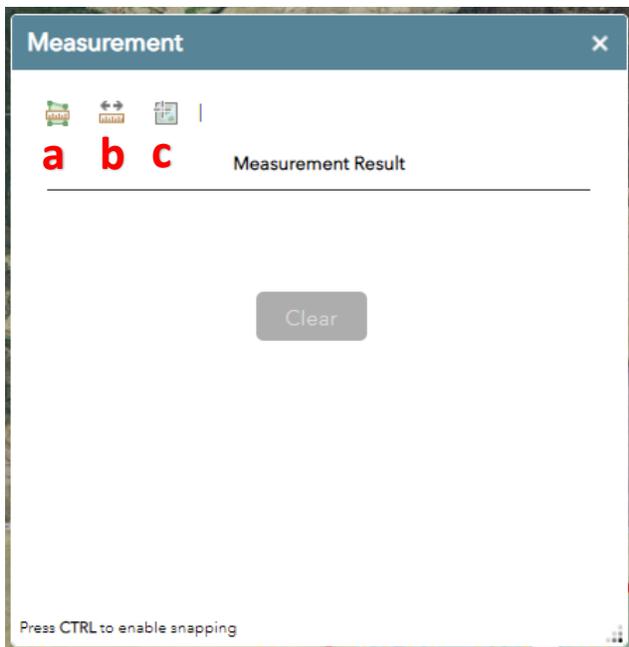
To stop showing location, click the square **Stop** symbol, which will show in the same place as the My Location button.



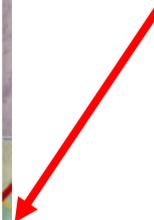
### Measurement



G. *Measurement* (in the upper left of the map view, under the search window, to open the corresponding dialogue)

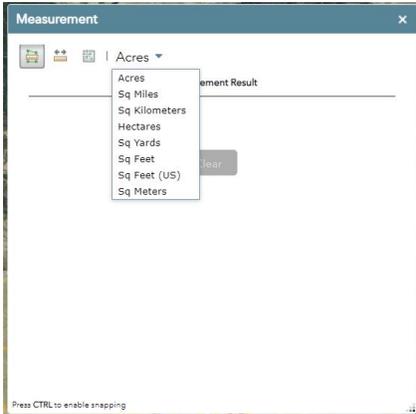


To increase the size of the widget dialogue, click and drag the lower left corner until sized accordingly.

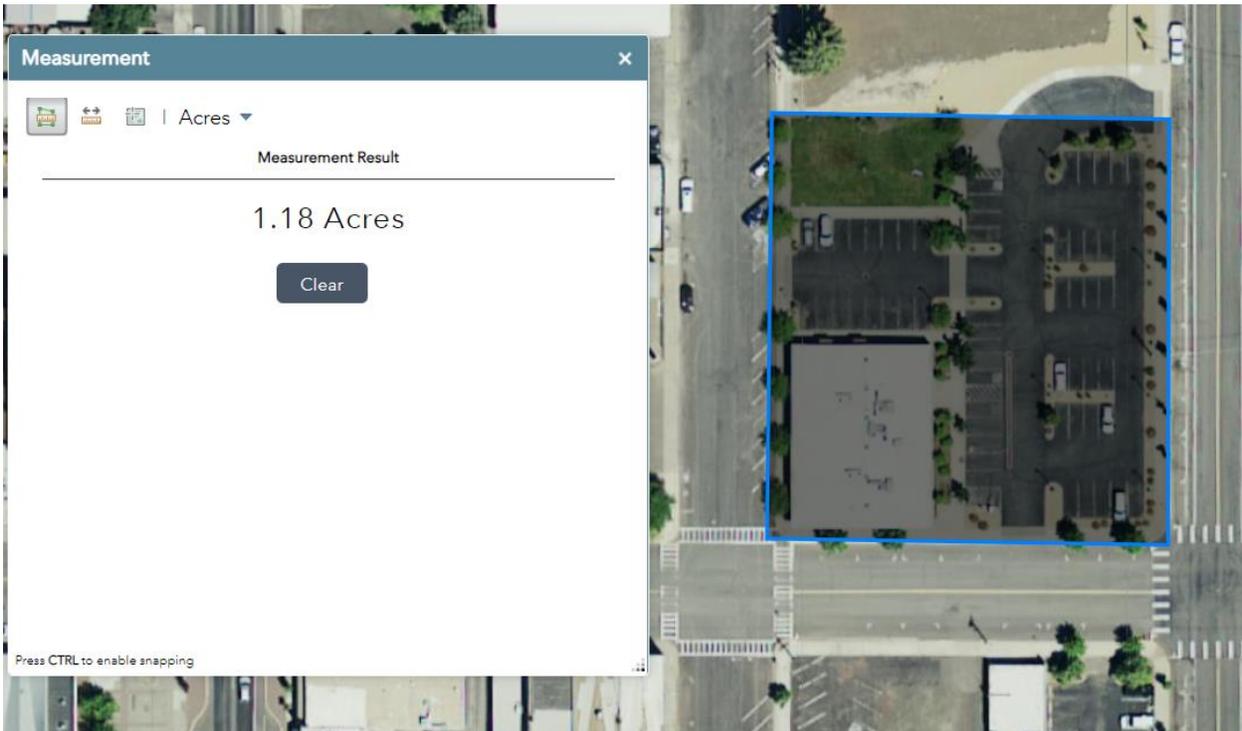


- a** Area
- b** Distance
- c** Location

a. *Measuring Area*



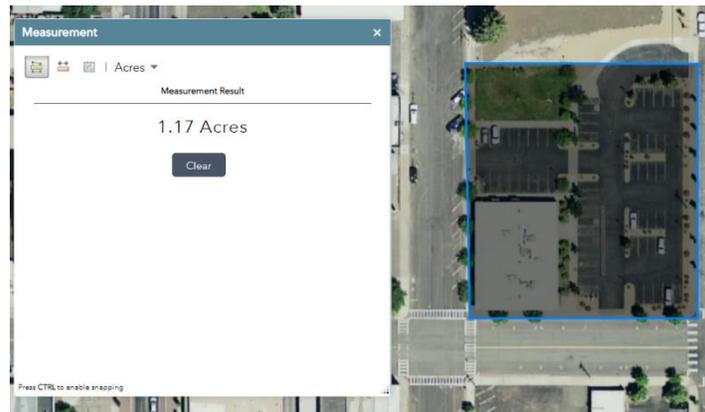
With the measure area button selected, the options for measurement units can then be viewed and selected using the drop-down menu on the right.



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.

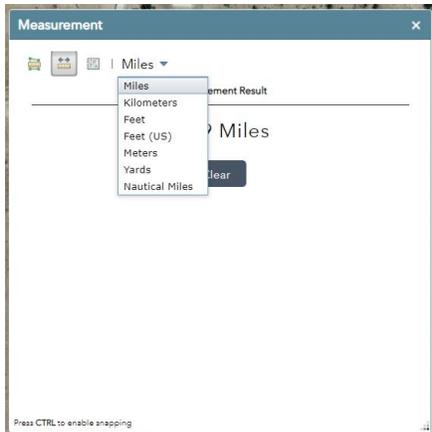


To finish drawing the area, when placing the last corner/point, double click the left mouse button. The result will be a blue shape, with a shaded interior, and a total area listed in the widget dialogue:



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

#### a. *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. Drag the mouse, then left click in the desired location at the end to establish the intended distance measurement.

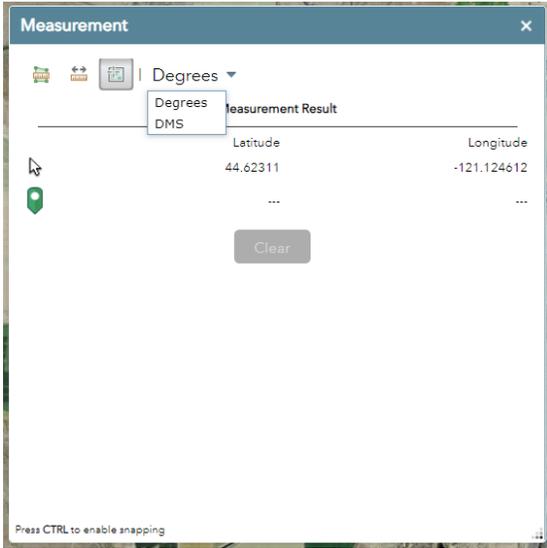


To measure a multi-directional line, keep left clicking the mouse along the desired course.



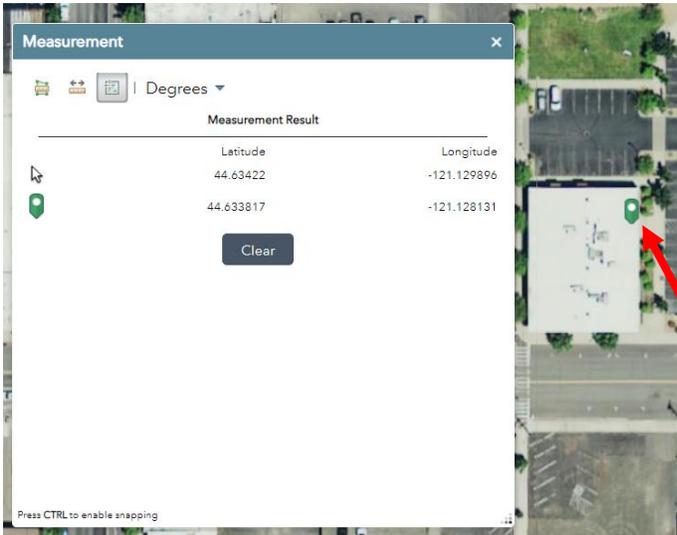
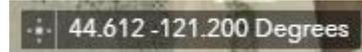
To finish drawing the desired course or distance, double click with the left mouse button in the last location to terminate the draw.

a. *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 left hand corner of the map view.

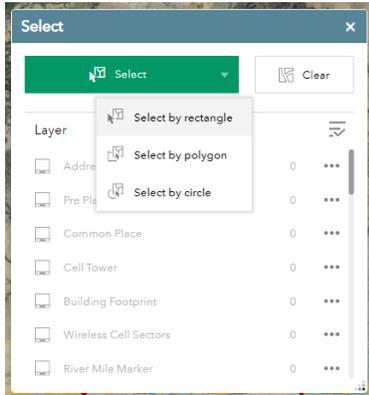


A left click of the mouse in the map view will place a point, which will have its latitude and longitude measured out in the dialogue next to the image of the map marker.

## Select



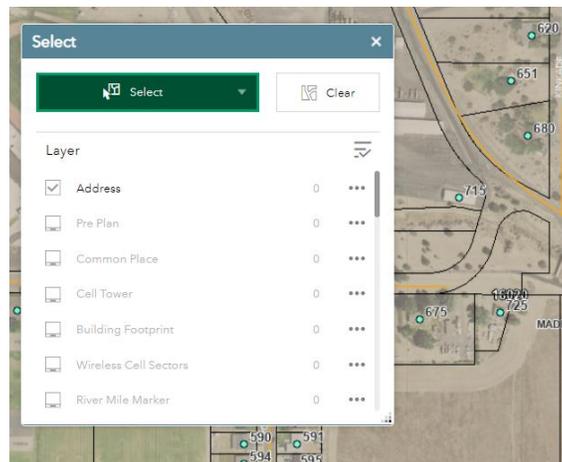
H. *Select Widget* (in the upper left corner of the map view, under the search window)



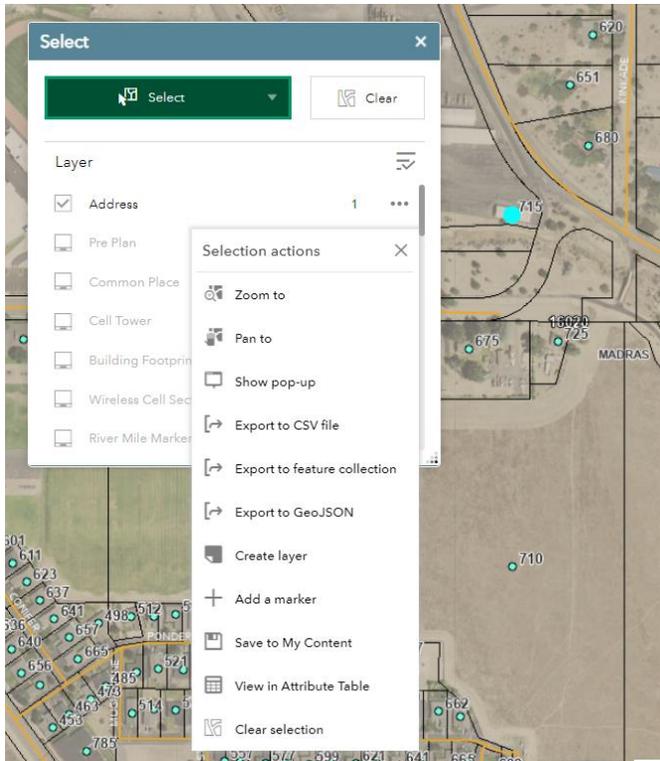
To select a feature in the map, left click the *Select* button. Click the drop-down arrow on the *Select* button to view the different selection methods.

\*\*\*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 and address point, uncheck any checked box other than Address.



With an address point selected, clicking the three dot array (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, Pan to, etc.)

#### *Export to CSV file*

This function will return the record values for the selected feature in a **CSV** file format, saved to C:\Users\user\Downloads.

**CSV** (comma separated values) file can be used in MS Excel. Not only does this **CSV** export provide the record values of the feature, but if the selected feature is a point feature type (i.e. an address point), the latitude and longitude will be returned in fields titled **X** & **Y**.

#### *Export to feature collection*

-AND-

#### *Export to GeoJSON*

\*\*\*These export options can be supported upon request to the Jefferson County GIS Department.

#### *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.

#### *Save to My Content*

This function will only work if the user is logged into an Esri ArcGIS Portal or ArcGIS Online user account. For further support on this function, please contact the Jefferson County GIS Department.

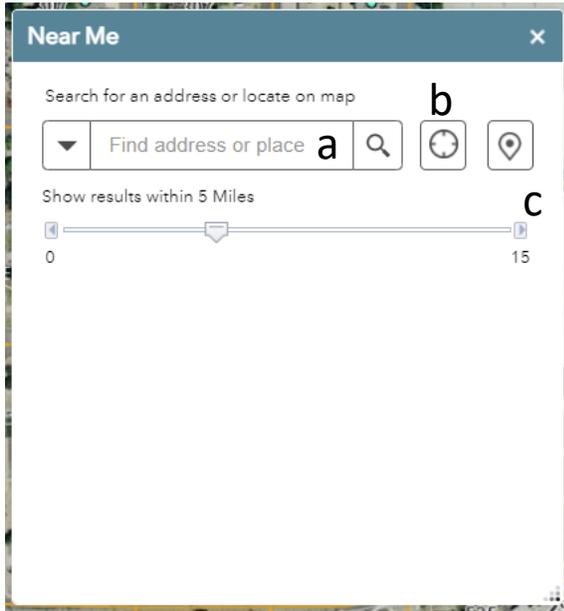
#### *View in Attribute Table*

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

## Near Me



I. *Near Me* (in the upper left corner, under the search bar)

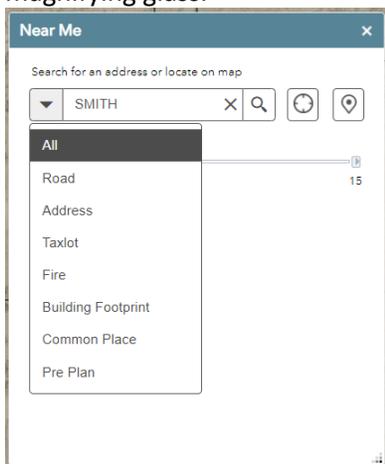


### Search Options

- 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 street name, address or a common place location name into the search window and then click the magnifying glass.

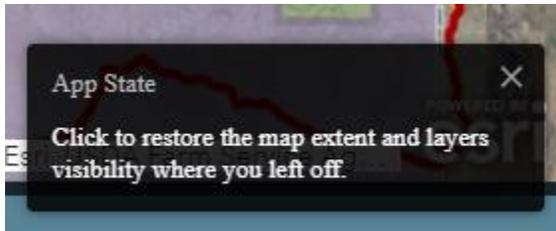


-OR-

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**



J. *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**



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

Address		Road	County Boundary	Taxlot	Municipal Boundary	Emergency Service Zone	USA NAIP Imagery: Natural Color
Options		Filter by map extent	Zoom to	Clear selection	Refresh		
Full Address	Community						
936 WILLOW ST	SPRAY						
44025 HEPPNER SPRAY HWY	SPRAY						
45632 HEPPNER SPRAY HWY	SPRAY						
13284 LOWER ROCK CREEK LN	ARLINGTON						
18217 MIDDLE ROCK CREEK LN	ARLINGTON						
75398 HIGHWAY 74	IONE						
13860 features 0 selected							

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 M) will be available to view in the table view. In the example screenshot above, Address is the selected dataset tab. As a result, the fields Full Address and Community are visible below the dataset tab and options array.

In the next screenshot example, the Road dataset tab has been selected. Respective fields from the Road table are displayed (i.e. Street Name, Community, Emergency Service Number, etc.).

Street Name	Community	Emergency Service Number	County	Status
SW LUCY ANN ST	LONEROCK	11001	GILLIAM	
CAYUSE CANYON RD	IONE	11001	GILLIAM	
BATES RD	CONDON	11001	GILLIAM	
HIGHWAY 206	CONDON	11001	GILLIAM	
W GILLIAM ST	CONDON	11001	GILLIAM	
W SUMMIT ST	CONDON	11001	GILLIAM	

5584 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.

Street Name	Community	Emergency Service Number	County	Status
	LONEROCK	11001	GILLIAM	
	IONE	11001	GILLIAM	
	CONDON	11001	GILLIAM	
HIGHWAY 206	CONDON	11001	GILLIAM	
W GILLIAM ST	CONDON	11001	GILLIAM	
W SUMMIT ST	CONDON	11001	GILLIAM	

5584 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.

The screenshot shows the 'Frontier Regional 9-1-1 Interactive Mapper' interface. A 'Select' dialog box is open, listing various layers with checkboxes and counts. The 'Taxlot' layer is selected. Below the dialog, a table displays the selected record's details.

MapTaxlot	ACCOUNT_ID	PROPERTY_C	CLASS_DESC	OWNER	M_ADDRESS	M_CITY	M_STATE	M_ZIP	AGENT	HOUSE_NUMB	STREET_NAI
111500000500	068	551	FARM USE IMP- EFU	CLARK, DWIGHT GORDON	1219 HAY CREEK RD	MADRAS	OR	97741-9584		1221	HAY CREEK

## More



L. *More* (on the left side of the map frame, the *More* icon can be found)

Click the *More* icon to find the widgets *Bookmark* and *Coordinate Conversion*.

The diagram illustrates the process of accessing additional widgets. On the left, a screenshot of the map interface shows a black arrow pointing to the 'More' icon (three horizontal lines) in the left-hand navigation pane. A large blue arrow points to the right, where a second screenshot shows the 'More' menu expanded. This menu contains two widgets: 'Bookmark' and 'Coordinate Conversion', both of which are highlighted with a light blue background.

## Bookmark

The *Bookmark* widget allows users to save a map extent, layer selection and layer symbology to return to at a later time. Click *Bookmark*, and the Add button appears. When you are ready to save, click the add button.



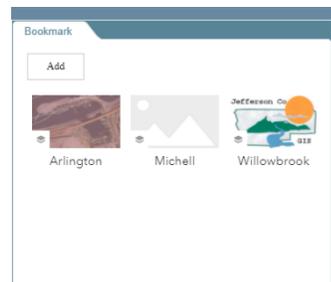
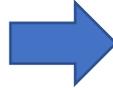
An icon appears.

Configuration options include:

- Title the bookmark with a specific location or view
- Add a thumbnail image
- Delete thumbnail



Save multiple bookmarks



## Coordinate Conversion



Within the *More* icon, click the *Coordinate Conversion* widget to transform 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 left hand corner of the map, is the coordinate display of where the cursor is resting.

 45.717 -120.203 Degrees

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

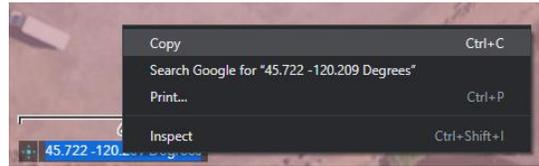
 Click the map to get coordinates

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

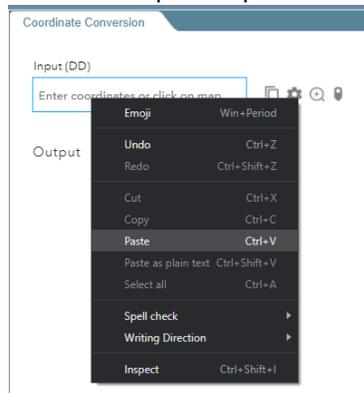


A pin will appear on the location clicked in the map and the coordinate view will be populated with the decimal degree values.

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.

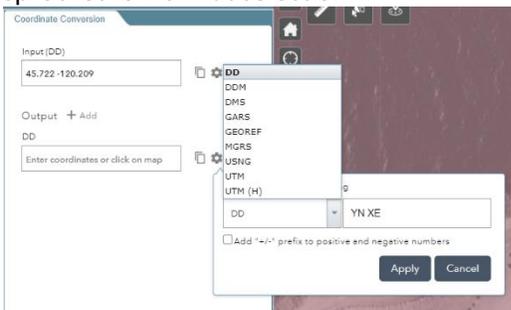


Then right click into the *Coordinate Conversion Input* window and select the paste options.



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.

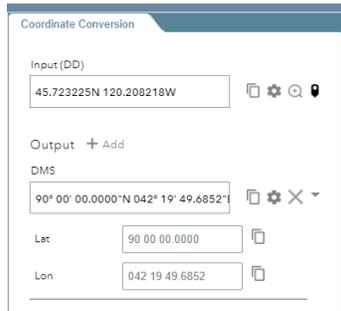


To convert to **degrees, minutes, seconds**, select the option titled **DMS**. Then click the Apply button.



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.

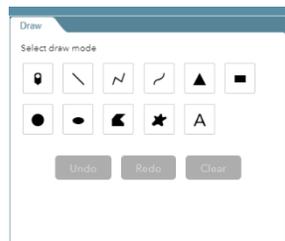


## Draw



M. *Draw* (on the left-hand side of the map frame)

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



Text

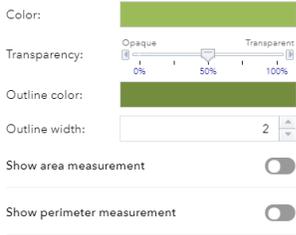


*Other markup options:*



Color

Transparency



Outline color

Outline width

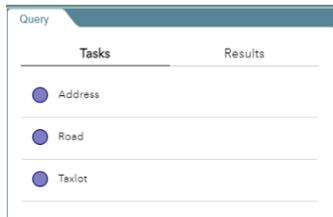
Area and linear measurement of markup

**Query**



N. *Query* (on the left-hand side of the map frame)

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



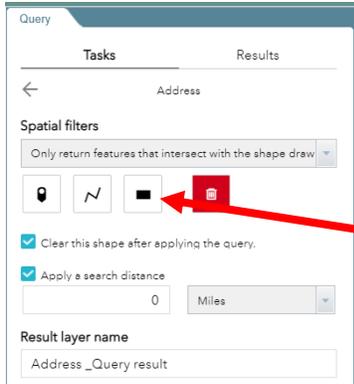
Three datasets are available for query:

Address

Road

Taxlot

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

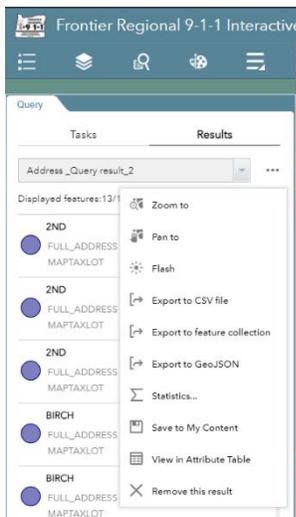
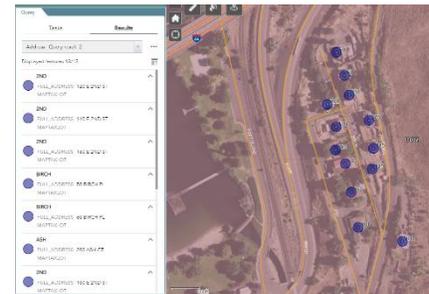
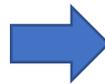


### Spatial filters

This selection offers methods of querying:

- Spatial filters
  - Only return features that intersect with the shape draw
  - Only return features within current map extent
  - Only return features that intersect with the shape drawn on the map**
  - Only return features that have a spatial relationship with features in another layer

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