Search For Data

All tutorial data is being used from <u>http://gisdata.eddmaps.org/apps/demo</u>

To follow along with the tutorials, feel free to use that web address to gain access to the online demo.

The information in the demo map is being provided for demonstration purposes only and does not constitute real data pertaining to noxious weeds. The data cannot be considered reliable and cannot be used for on the ground weed management decisions.

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Early Detection & Distribution Mapping System



There are 3 ways you can search for data: By **Specific Values**, By **Shape**, and By **Spatial Proximity**. We will look at all 3 of them.

Zoom into the state of Utah and click on "Search For Data" tool.

1. Search By Value



In this first example we will be searching for weed points that have specific attributes that meet our criteria (specific names, dates, sizes etc)

Click on "By Value" to search for weed points that meet a specific criteria.



Hold the arrow down to select the search criteria.



Select Year



Select 2006 as the year we are interested in searching for.



Zoom into the desired area you are interested in searching and then select "Limit search to map extent".

This limits the results to only the area you are interested in searching, and will speed up your searches.



Click "Search" to start the query.



The Results tab automatically opens with the results of your search query once it has run.

In this example **23** records were returned that met our search criteria (weeds recorded in 2006 in this specific area).



By clicking on the individual results, the map zooms to that exact feature and highlights it.

Click on the different entries in the results tab and notice how the map changes and highlights the features.



After exploring your results, clear your results.



2. Spatial Search



The next type of search we will do is a spatial search.

Let's look for some weed points that fall within a specific county in Idaho.

Start by going back to the "By Value" tab and by clicking on the down arrow. This allows us to change what value we are searching by.



Select US Counties



Select the Ada County option

Uncheck the map extent box and then click on Search



The results tab opens with Ada County selected and the map zooms to Ada County



Click on the "By Spatial" tab



We will be applying a 1 mile buffer around Ada County and doing a search for all of the reported weed points that fall within that buffer.

Select 1 mile as our search distance and click on the buffer icon



Select the Weed Points layer



Select the option "entirely contained in"



A window opens asking you to search by the buffer or selection.

Choose the Buffer Option. This is telling the search function to use your initial Ada County selection plus include a one mile buffer around the county.



The results tab opens with your results and the map zooms to the area.



Selecting the record in the results tab, highlights the item on the map and zooms to that feature.



After exploring your results, clear your results making sure to clear your buffer too.



Next we will do a search for weeds using a shape to define our area of interest.

Click on By Shape tab



Select the Weed Points layer



After selecting the Freehand polygon tool, draw a polygon on the map defining the area you are interested in searching.



The Results tab opens with the features that existed in that specific area. In this example there were 279 weed points that were in that user defined polygon.

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By selecting the record in the results tab, it selects the feature in the map and zooms to it. Explore your results and when you are done Clear your results and close the tool.

You have just successfully performed 3 different types of searches in EDDMapS GIS.