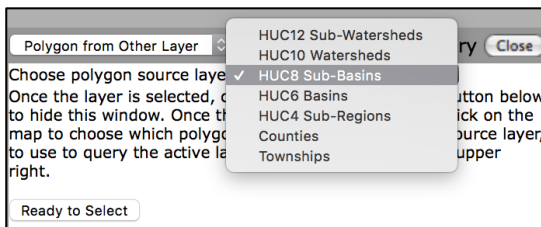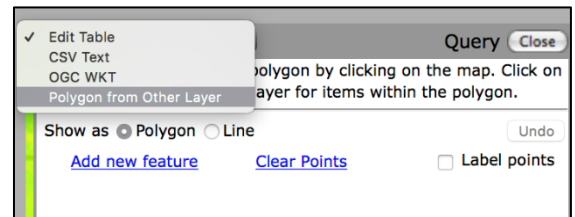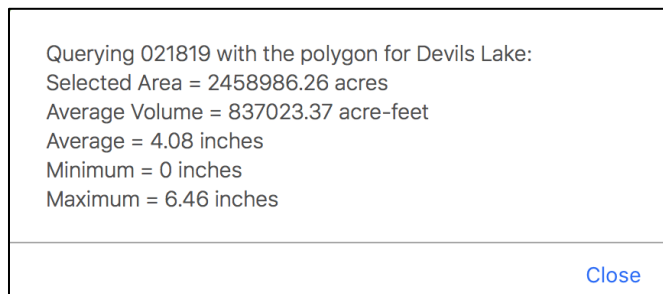Using the DWR Snow Data MapService to estimate the Devils Lake Basin Snow Water Equivalent

1. Access at the State Water Commission MapService page – Scroll down to "Snow Water Equivalent Information https://mapservice.dwr.nd.gov/index.phtml?active=Precip

2. The date can be selected on the right-hand side of the page by using the "Show Layers" tab and scrolling to the date of interest under the "Snow Data" option. The latest date with data is open by default

3. Check to make sure that Snow Water Equivalent is selected at the active layer in the upper right corner

4. Select the "information by polygon" tool in the upper right corner

5. The Query toolbox will appear in the upper left corner

6. Select "Polygon from Other Layer" in the drop-down menu

7. Select "HUC8 Sub-Basins" in the next drop-down menu

8. Click the "Ready to Select" Button

9. Click anywhere inside of the Devils Lake Basin and a result box will come up showing the estimated volume of water in the snow-pack

Querying 021819 with the polygon for Devils Lake:
Selected Area = 2458986.26 acres
Average Volume = 837023.37 acre-feet
Average = 4.08 inches
Minimum = 0 inches
Maximum = 6.46 inches

The information displayed on the DWR Snow Water Equivalent MapService is compiled by the National Operation Hydrologic Remote Sensing Center's Snow Data Assimilation System (SNODAS). More information about the data can be viewed at https://nsidc.org/data/g02158