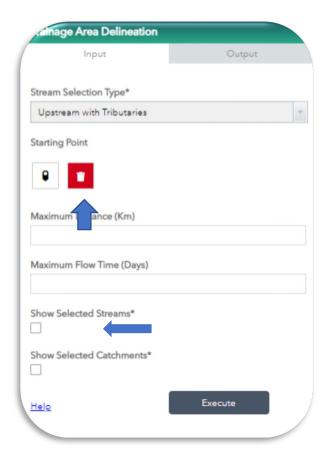
How to Use the Drainage Area Delineation Tool

The Drainage Area Delineation tool is a geoprocessing tool designed to take any point on the map and identify both the primary waterbody it flows into along with the surrounding drainage basin that flows into the water source. The tool works with NHDPlusV2, a dataset built by combining the National Hydrography Dataset (NHD), the National Elevation Dataset (NED), and the Watershed Boundary Dataset (WBD). The tool works by taking a designated point and snapping it to the nearest NHDPlus flowline based on NHD flow direction data. The NHDPlus catchments that intersect with these flowlines are then subsequently highlighted.

Accessing the Drainage Area Delineation Tool

The Drainage Area Delineation tool can be found under the Analysis Widget on the main tool panel





A new pop-up panel will appear with two tabs: Input and Output.

In the Input tab, you must first select the 'Stream Selection Type'. There are five options as outlined below (example area: MD WRR -79.29942, 39.65103):

Option	Description	Snapshot
Upstream Main Path Only	Highlights the main flowline upriver of the dropped point and all surroundings areas that drain DIRECTLY into that section of river.	Accident South Granch Soal Creat Michenry 3113 11 Zmi
Upstream with Tributaries	Highlights the main flowline and connecting tributaries UPRIVER of the dropped point. All surrounding areas that drain DIRECTLY into the main flowline or its tributaries are highlighted.	Accident Branch Beal Cock Bittin

Downstream Main Path Highlights the main Columbus Indianapolis Only flowline DOWNSTREAM of Cincinnati St Louis the dropped point to its discharge point. Includes all surrounding areas that discharge DIRECTLY into Nashville P Knoxville & that main flowline. emphis Greenville" o Atlanta CAROLINA Birmingham FLORIDA O Jacksonville ew Orleans Orlando Downstream with Highlights the main ittsbur Columbus Divergences flowline and connecting Indianapolis divergences DOWNRIVER City Cincinnati St Louis of the dropped point. All surrounding areas that drain DIRECTLY into the main flowline or its Nashville Knoxville divergences are highlighted. o Atlanta Birmingham Jacksonville Clando

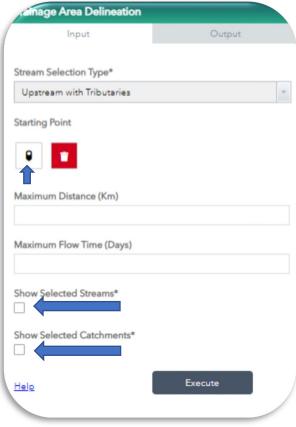
Click on the 'Starting Point' button and drop a point onto your desired location on the map. This point *does not need* to be on a river/stream for the tool to work.

Enter in the desired maximum distance (in kilometers) into the text box. This is best used if you want to constrain your delineation to a small area. Otherwise leave it blank to ensure you capture the full upstream or downstream drainage area.

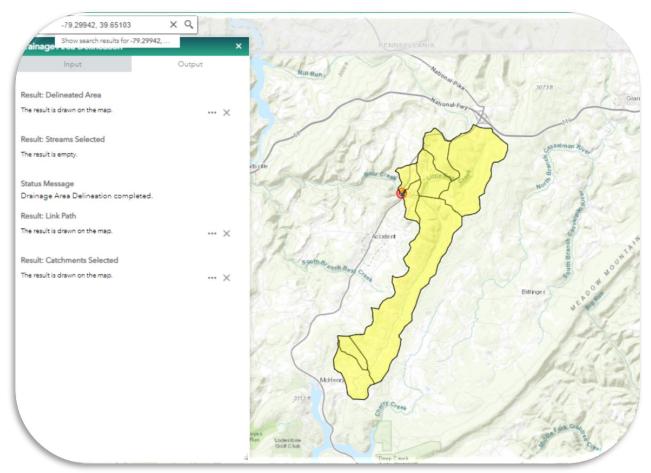
The Maximum Flow Time (Days) feature is not functional at this time and can be ignored.

We recommend checking the boxes next to the 'Show Selected Streams' and 'Show Selected Catchments'. This will create data layers that will appear in the Active Layer List and allow you to manipulate the flow path and delineation area as data layers.

Click the blue 'Execute' button. Give the map time to process this request. This tool can take a couple of minutes to work depending on the size of the drainage area.



When the tool has finished processing the tool panel will automatically shift to the Output tab. Clicking on the ellipses next to any of the results will give you access to pop-ups, statistics, and attribute tables.

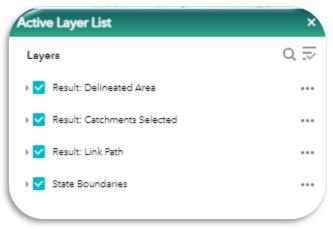


If you navigate to the Active Layer List, all of the results will be available as data layers. These layers can be manipulated further and turned on and off as desired.

To reset this tool, navigate back to the Input tab on the Delineation pop-up. There is a red button with a trash can icon. Select this.



This will remove the point from the map. The results will remain. To remove the results from your map, uncheck the boxes on the Active Layer List.



If you run th recent iterat	e Delineation tool again, the lay on.	ers in the Active Layer	List will update to reflect the	most