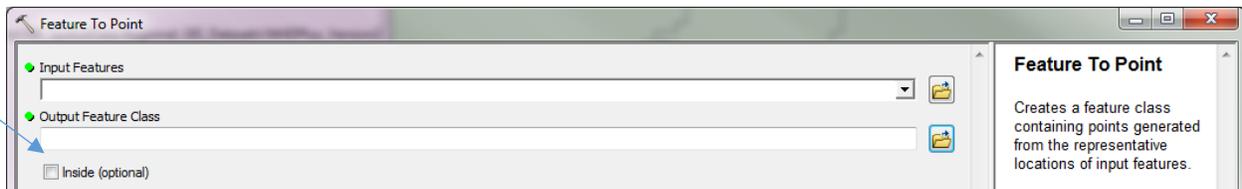


How to get HUC12 Catchment attribute added to NHD Plus Catchments

The majority will be attributed correctly by the following method:

1. Calculate the centroid of each NHDplusv2 catchment by using the Feature to Point tool in ArcToolbox (found under Data Management Tools > Features). When you are using this tool, use the FEATUREID field (in the catchment attribute table) to uniquely identify each catchment polygon. Make sure you check the “inside” option ON. Save the centroids in a new shapefile (then delete this shapefile later on when you’re done)



2. Once you have the centroids, perform a spatial join on the centroids with the WBD (Watershed Boundary Dataset) layer for the region. The WBD layer is found here:

N:\NRAC\Workspace\PROJ\NRAC429_USGS_Fluvial\WorkingData\LayerFiles\WBD
BOUNDARIES FOR REGION 02.lyr

- To do a spatial join, right click on the new catchment centroids (points) layer, choose Joins and Relates from the menu, then Joins.
 - Then in the Join Data window, select Join Data from another layer based on spatial location (at top). Then choose WBD boundaries as layer to join to the catchment centroid points.
 - Results will be saved as a new layer (so specify a new dataset name).
3. Now, there will be another new (point) layer for catchment centroids. The attributes from the WBD datasets will be joined to this attribute table. Now you need to do a regular (tabular) join:
 - a. Right click on the original catchment attribute table (the NHDPlusv2 catchments). Select Joins and Relates > Joins.
 - b. In the Join Data window, select Join data from a table at the top. Then choose the attribute table for the new spatially joined catchment centroid points (results from #2 above). Use FEATUREID as the join field.

4. Look at the joined results table (attribute table for NHDPlusv2 catchments). It will have new attributes at the end, including HUC_12 and HU12_NAME. Add two new fields to the attribute table (name the fields HUC12 and HUC12NAME) Make them both Text fields.
 - Calculate the HUC12 field equal to the joined HUC_12 field
 - Calculate the HUC12NAME field equal to the joined HU_12_NAME field
5. Now visually check the results. Make a new unique values legend for the catchments, based on HUC12 value. Also make sure the WBD Region 02 layer is turned on. Zoom around the entire region and make sure that all catchments have a logical value for HUC12 watershed (all catchments physically located within the same HUC12 should be the same color). If you see problems you will need to edit the values in the catchment attribute table so that all values (for HUC12 and HUC12NAME) are the same within the same HUC12.

NHD Data (streams, open water)

NHD Data may be downloaded from the National Map viewer also, or you can download it from the NHD website directly.

- NHD data can be downloaded (regional geodatabases) from this website:
- <ftp://nhdftp.usgs.gov/DataSets/Staged/SubRegions/FileGDB/HighResolution/>
- Subregions are 4-digit HUCs. Determine which subregions are needed.