

# SPARROW Output Layers

<https://github.com/geostreams/gltg/issues/16>

## 2012 Nutrient Model results by SPARROW

<https://www.sciencebase.gov/catalog/item/5cbf5150e4b09b8c0b700df3>

### Need to aggregate to HUC8

The data (total N and P) is organized by ComID.

Therefore, we need to add up the value of comID to the HUC8 that comIDs are belong to.

#### Data

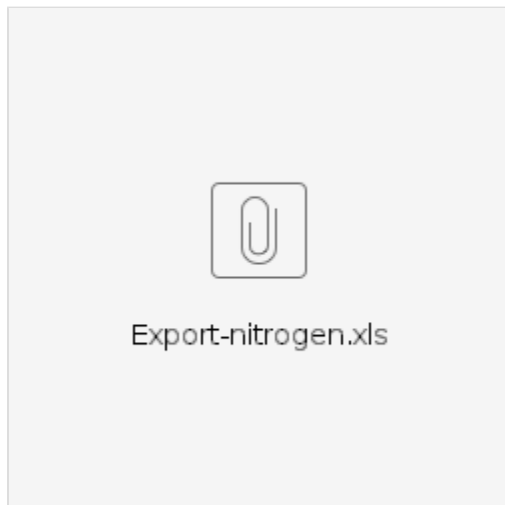
- total N and P text file (ID: comid)
- catchment to huc12 crosswalk data: (<https://www.epa.gov/waterdata/nhdplus-national-data>)
  - DBF file
- HUC8 boundary shapefile

#### Steps

- Derive a relationship table between (catchment (COMID) and HUC8) from crosswalk data above
- calculate (add up) the total N and P value by huc8 by using table above
- join the table above (calculated table) with HUC8 boundary

## 2002 Nutrient Model Results by SPARROW

### Nitrogen output



### Phosphorus



Export-phos.xls

We need to join the table with HUC8 boundary to generate geospatial layer