**Data Sources**

Ohio boundary zip file

* File name: Ohio\_Boundary.zip
* Source: <https://political-boundaries-geohio.hub.arcgis.com/>
* Zip file contains shape file of the Ohio boundary
* Use:
  + Projected Ohio as a boundary for other geospatial data

2018 U.S. Congressional district zip file

* File name: 2018\_us\_cd116.zip
* Source: <https://www.census.gov/geographies/mapping-files/2018/geo/carto-boundary-file.html>
* Zip file contains shape file of US Congressional districts for the 116th Congress
* Use:
  + Filtered to only include Ohio congressional districts
  + Projected to show congressional district boundaries

2018 Ohio Precinct zip file

* File name: 2018\_OH\_precints.zip
* Source: <https://github.com/mggg/ohio-precincts/blob/master/OH_precincts.zip>
* Zip file contains a shape file of all Ohio precincts
* Use:
  + Joined with voter turnout data by precinct
  + Projected to show voter turnout levels

2018 voter turnout by precinct csv file

* File name: 2018-11-06\_turnoutprecinct.csv
* Source: <https://www.ohiosos.gov/elections/election-results-and-data/2018-official-elections-results/>
* File contains voter turnout data based on each precinct
* Use:
  + Join with precinct shape files to identify levels of voter turnout

2018 Congressional district demographics csv files

* File names: table02a\_age\_2018.csv // table02b\_sex\_poverty\_2018.csv // table02c\_education\_2018.csv // table02a\_race\_2018.csv
* Source: <https://www.census.gov/data/tables/time-series/demo/voting-and-registration/congressional-voting-tables.html>
* Files contain specified demographic data for each congressional district
* Use:
  + Filtered to only include Ohio congressional districts
  + Joined with congressional district shapefiles to map out demographics based on congressional district

2018 Ohio Land Coverage data

* File name: land\_coverage.zip
* Source: <https://www.mrlc.gov/viewer/>
* Files contain specified land coverage data for a rectangle surrounding Ohio
* Use:
  + Clipped using a shapefile of Ohio
  + Land coverage types were used to create a measure of urbanization by area of each congressional district