

Agriculture, forestry, and fisheries



- USDA Census of Agriculture – a comprehensive summary of agricultural activity in the US
Spatial resolution: state, county, watershed, American Indian reservation
Temporal resolution: every 5 years, 1840-2012
Web: <https://www.agcensus.usda.gov/Publications/2012/>
https://www.nass.usda.gov/Data_and_Statistics/index.php
Additional notes: Includes “Special Studies,” such as the 2013 Census of Aquaculture and 2013 Farm and Ranch Irrigation Survey, among others



- NOAA Fisheries Annual Commercial Landings – total annual landings of commercial fish and shellfish species in the US in terms of dollars and pounds
Spatial resolution: state (or all of US)
Temporal resolution: annual
Web: <https://www.st.nmfs.noaa.gov/commercial-fisheries/commercial-landings/annual-landings-with-group-subtotals/index>



- USDA Forest Service Forest Health – forest acres damaged (defoliation and mortality) by pests across the US
Spatial resolution: state or region
Temporal resolution: annual, 2013-2016
Web: <https://foresthealth.fs.usda.gov/portal/PestSummary/DamageSummary>



- FAOSTAT - food and agriculture data (huge variety) for over 245 countries and territories
Spatial resolution: country
Temporal resolution: annual, 1961-2017
Web: <http://www.fao.org/faostat/en/#data>
and covers all FAO regional groupings from 1961 to the most recent year available
Additional notes: Datasets in FAOSTAT include crop, livestock, and forestry production, agricultural inputs, agricultural emissions, and a large suite of agri-environmental indicators (fertilizer, pesticides, temperature change, etc.), among others.



- Biomass Energy Feedstock Library – compositions of many different agricultural feedstocks (includes % glucane from cellulose and starch, % xylan, % lignin, % total ash, % protein)
Web: <https://bioenergylibrary.inl.gov/Home/Home.aspx>
Additional notes: Dr. Nelson has these data in a spreadsheet; contact her directly if you would like to use these data.



- USDA Long-Term Agricultural Projections – expected changes in a variety of US commodities through 2027
Spatial resolution: nation
Temporal resolution: 2017-2027

Web:

<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1192>

- USDA World Agricultural Supply and Demand Estimates – estimated supply and demand for a variety of commodities

Spatial resolution: US and world

Temporal resolution: annual

Web: <https://www.usda.gov/oce/commodity/wasde/index.htm>

Additional notes: The data are divided onto multiple sheets in the Excel file

- North Carolina Department of Agriculture & Consumer Service's Agricultural Water Use Data – agricultural water use data in gallons

Spatial resolution: state

Temporal resolution: monthly

Web: <http://www.ncagr.gov/stats/environmental/index.htm>

Additional notes: data are in PDF reports

Environment

- Global Runoff Data Centre – riverine runoff data for sites across the globe

Spatial resolution: point

Temporal resolution: varies by location

Web: http://www.bafg.de/GRDC/EN/Home/homepage_node.html

- EPA National Air Emissions Monitoring Study – air quality and emissions data from select animal feeding operations in CA, IA, IN, KY, NC, NY, OK, TX, WA, and WI

Spatial resolution: point

Temporal resolution: varies by location

Web: <https://archive.epa.gov/airquality/afo2012/web/html/index.html>

- National Estuarine Research Reserve System Wide Monitoring Program – water quality data from estuarine sites across the US

Spatial resolution: point

Temporal resolution: varies by location, but many are 15-minute from 2002-2018

Web: <http://cdmo.baruch.sc.edu/>

- Ocean Conservancy's International Coastal Cleanup dataset – marine debris (aka trash) collected across freshwater and coastal sites, reported by in categories of debris type; sites include locations from all over the world, but are mostly concentrated in the US

Spatial resolution: point

Temporal resolution: varies by location

Web: <http://archive.coastalcleanupdata.org/datacollection/>

Additional notes: You will have to create an account to download the data, but the Ocean Conservancy will not share your info with others.





- USGS Streamflow – flow data from streams and rivers across the US

Spatial resolution: point

Temporal resolution: varies by location

Web: <https://waterdata.usgs.gov/nwis/rt>

- National Water Quality Monitoring Council

Spatial resolution: point

Temporal resolution: varies by location

Web: <https://www.waterqualitydata.us/>



- EPA Toxics Release Inventory – reported releases of toxic chemicals including location, chemical released, and amount released from across the US

Spatial resolution: point

Temporal resolution: annual

Web: <https://www.epa.gov/toxics-release-inventory-tri-program/tri-basic-data-files-calendar-years-1987-2016>



- NOAA North American Drought Monitor – drought indices (Palmer Drought Index and Standard Precipitation Index) for sites across the US

Spatial resolution: point

Temporal resolution: annual, 1950-2017

Web: <https://www.ncdc.noaa.gov/temp-and-precip/drought/nadm/indices/>



- North Carolina Department of Environmental Quality's Baseflow Estimates – modeled baseflow for streams and rivers across the state

Spatial resolution: point

Temporal resolution: daily or annual

Web: <https://www.ncwater.org/?page=685>



- USGS Water Quality & Streamflow Data (**NC-specific links**) – water quality data for streams and rivers across the state

Spatial resolution: point

Temporal resolution: varies by variable

Web:

Water quality –

https://waterdata.usgs.gov/nc/nwis/current/?type=quality&group_key=basin_cd

Streamflow –

https://waterdata.usgs.gov/nc/nwis/current/?type=flow&group_key=basin_cd

Additional notes: Click on a “Station Number” to view all data available for a particular site, and download “Tab separated” data for easy upload into R



- Cape Fear River Basin Monitoring Coalitions' Water Quality Data – water quality measurements for several locations along the Lower Cape Fear River
Spatial resolution: point
Temporal resolution: monthly
Web: <http://lcfrcp.uncw.edu/riverproject/>



- North Carolina Climate Office – weather data for sites across NC
Spatial resolution: point
Temporal resolution: hourly, daily, or monthly
Web: <https://climate.ncsu.edu/cronos>

Other relevant data



- Census Bureau – demographic and population data
Spatial resolution: town, county, metropolitan area, state, nation
Temporal resolution: varies from annual to decadal
Web: <https://www.census.gov/topics/population/data.html>