

HERCULES Community Data Workshop: Data Resource Guide

This data resource guide was developed by the HERCULES Exposome Research Center (P30 ES019776) as part of the HERCULES Community Data Workshop with the goal of helping communities access and use data to address their environmental health concerns.

Symbols Key

 Downloadable report  Online tutorial  May require data interpretation skills  Local or GA-specific

Go-To Resources Table

These are the top resources we recommend starting with. Pro Tip: If you are using the document online you can Ctrl F the symbols found above to search for resources.

Resource Name	Category	Description	Symbol
CDC Environmental Public Health Tracking Network	Health Data	Tool that combines data from various U.S. agencies to rank the cumulative EJ impacts on health by census tract.	 
EPA Air Now	Air Pollution	Provides current, past, and forecasted Air Quality Index (AQI) levels for a certain location.	
EPA EnviroAtlas Interactive Map	General Enviro. & Mapping	Tool to look at wide-variety of environmental topics with census data in the U.S.	 
EPA How's My Waterway	Water Quality	Users can check local water quality by entering your location.	
EPA Toxic Release Inventory Toxics Tracker (TRI)	Land Hazards	Users can explore industrial facilities in a given area and see how much toxic chemicals they release or manage as waste.	 
Public Environmental Data Partner's EJScreen	Environmental Justice	Displays environmental and population data to highlight areas with greater environmental justice concerns.	 
U.S. Census Data	Population Data	Foundational demographic and economic data.	

The following pages provide a comprehensive list of resources, organized by category:

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Acronyms Glossary

CDC: Center for Disease Control & Prevention | **DPH:** GA Department of Public Health | **EJ:** Environmental Justice | **EPA:** U.S. Environmental Protection Agency | **EPD:** GA Environmental Protection Division | **FEMA:** Federal Emergency Management Agency | **GIS:** Geographic Information System | **NASA:** National Aeronautics & Space Administration

Complete Resources Table

Resource Name	Description	Symbol
Air Pollution		
EPA Air Now EPD GA Air Monitoring	Provides current, past, and forecasted Air Quality Index (AQI) levels for a certain location. Second link provides GA-specific AQI level information.	  
EPA Air Quality Monitoring Sites Map	Allows users to enter a location and find nearby government air quality monitors measuring a wide range of pollutants.	
PurpleAir Interactive Map	Displays community air monitors that show real-time data.	 
Environmental Justice		
CDC Environmental Justice Index	Tool that combines data from various U.S. agencies to rank the cumulative EJ impacts on health by census tract.	
Climate & Economic Justice Screening Tool (CEJST)	Identifies pollution & climate vulnerable communities.	
EJ GreenBook (Download Book)	Comprehensive database of EJ policies and case studies in Georgia.	 
Public Environmental Data Partner's EJSreen	Displays environmental and population data to highlight areas with greater environmental justice concerns.	 
Science for GA's Health & Environmental Burden Index	Index uses the EJSreen & the CEJST to assign burden scores to communities in GA. The darker the blue, the higher the burden score.	 
General Environment & Mapping		
ArcGIS Living Atlas of the World	Comprehensive geographic information including maps, imagery, tools, and apps.	
Bureau of Transportation Statistics	Provides national data on how people and goods move throughout the country. Can be used to understand travel trends.	 
Climate Mapping for Resilience and Adaptation	Future projections and current data on climate hazards.	 
EPA EnviroAtlas Interactive Map	Tool to look at wide-variety of environmental topics with census data in the United States.	 
FEMA National Risk Index Map (Tutorial Video)	Identifies communities most at risk from natural hazards across the U.S. Users can explore risk scores by county or census tract.	 
Food Access Research Atlas	Uses census data to identify areas with limited access to food (often called "food deserts") based on distance to supermarkets,	 

	income, and vehicle availability.	
My NASA Data (Tutorial Video)	NASA data on the biosphere, geosphere, atmosphere, and other earth systems.	 
Health Data		
Campaign for Safe Cosmetics	Hover over 'Toxic Chemicals' on this website to access information on chemicals and products of concern, health impacts, and population-specific resources.	
CDC Environmental Public Health Tracking Network	Uses data from various U.S. agencies to rank the cumulative EJ impacts on health by census tract.	 
CDC PLACES: Local Data for Better Health	Provides chronic disease and other health-related estimates for U.S. communities at local levels (including counties, cities, census tracts, and ZIP Code areas).	 
GA DPH Online Analytical Statistical Information System (OASIS)	Health data tables, maps, and charts.	  
Land Hazards		
EPA Cleanups in My Community (Listing of Cleanups and Grants)	Users can input address and locate nearby EPA Cleanup sites.	 
EPA Enforcement & Compliance History Online (ECHO)	Useful to determine facilities in your area that do not meet EPA standards. Can search by location or specific facility of concern.	  
EPA EnviroFacts	Lists facilities that are registered under the EPA. Able to search by zip code and investigate facilities nearby.	 
EPA Toxic Release Inventory Toxics Tracker (TRI)	Users can explore industrial facilities in a given area and see how much toxic chemicals they release or manage as waste.	 
Science for GA's Information on GA Data Centers	Provides factsheets on data centers, actions to help protect your communities against data center development, and a map of data center locations in the state.	 
EPD GA Hazardous Sites	Interactive map and downloadable lists of current hazardous waste sites.	  
Smell My City (Download App)	Users can report and track pollution odors in their city.	 
Spills in Georgia (Download Report)	Reported sewage spills within the past 30 days.	 
Population Data		
Atlanta Regional Commission Data	Explore demographic, social, and economic data.	  
Neighborhood Atlas and Area Deprivation Index (Additional Information)	Measures and maps neighborhood-level social disadvantage across the United States using the Area Deprivation Index.	
Neighborhood Nexus (Metro ATL Racial Equity Atlas)	Community-level data with focus on Atlanta and equity.	 

Neighborhoods at Risk (<i>Tutorial Video</i>)	Combines population data with climate exposure risk.	 
U.S. Census Data	Foundational demographic and economic data.	
We All Count	Resources for equitable and ethical practices in data science.	
Zip Code Exam	Allows users to compare ZIP codes across the U.S. using demographic and socioeconomic data.	
Water Quality		
Atlanta Watershed Reports	Annual water quality reports (2003–2024).	 
EPA How's My Waterway	Users can check local water quality by entering your location.	
EPD GA Environmental Water Monitoring	Users able to find water monitoring locations closest to places of residence.	 
EPD GA Public Water Service Line Transparency	Tool to check if public water infrastructure nearby contains lead.	 