

Environmental Data Mapping Tools

Several federal agencies used publicly available climate, environmental and health data to create geospatial mapping tools. The table below shows similarities and key differences between these tools.

Tool	Climate and Economic Justice Screening Tool (CEJST)	Climate Mapping for Resilience and Adaptation	EJScreen	EJAM (since renamed to Environmental and Residential Population Analysis Multisite tool on EPA's Github)	Environmental Justice Index (EJI)	Future Risk Index
Current status	Archived on screening-tools.com (fully functional)	Still available	Archived on screening-tools.com (mostly functional)	Archived on screening-tools.com (mostly functional)	Still available	Archived on screening-tools.com
Developed by	Council on Environmental Quality (CEQ) and the U.S. Digital Service	National Oceanic and Atmospheric Agency (NOAA) and Esri	Environmental Protection Agency (EPA)	Environmental Protection Agency (EPA)	Center for Disease Control and Prevention (CDC)	Federal Emergency Management Agency (FEMA)
Original Purpose	As was required by Executive Order 14008, the tool helped to guide the benefits of certain programs, including those in that were Justice40 Initiative programs, by identifying disadvantaged communities that are overburdened by pollution and underserved by investment.	Helps community members learn about their climate hazard exposure, develop climate resilience plans, and get directed to grants. Integrates information from other tools and/or links to them.	Highlighted vulnerable communities facing environmental burdens using consistent, nationally available datasets.	Leverages EJScreen data across multiple sites for at-scale environmental justice analysis	Helps public health officials and communities identify and map areas most at risk for the health impacts of environmental burden by measuring the cumulative impacts through the lens of human health and health equity.	Shows projected economic loss from climate change at the county level in low and high emissions scenarios

Intended audiences	Federal agencies and community members	Community members and government leaders	EPA, government partners, and community members	EPA, government partners, and community members	HHS, public health officials, scientists, researchers, and community members	People in mitigation, urban or community planning, emergency response, education, insurance, finance, research
Methodology	Threshold based across multiple categories of burden	Displays real time hazard exposure data and future climate projections	Full analytical tool with multiple calculation methods	Similar to EJScreen reports, but across multiple locations of interest	Cumulative impact score calculated using indicators across categories of social, environmental, and health vulnerability	Creates indexes of risk across multiple hazards and scenarios

Investment Data

Several federal agencies and partners created tools to highlight environmental justice related investments. The table below shows similarities and key differences between these tools.

Tool	Bipartisan Infrastructure Law and Inflation Reduction Act (BIL/IRA) Community Benefit Commitments	Environmental Justice Grants from the Environmental Protection Agency (EPA)	Transportation Disadvantaged Tracts	Energy Justice Mapping Tool
Current status	Archived on screening-tools.com	Liked from screening-tools.com	Still available	Not available
Developed by	Department of Energy (DOE)	-	Department of Transportation (DOT)	Department of Energy (DOE)
Original/stated purpose	Identifies where DOE's investments are occurring and provides snapshots of the local benefits that may be associated with these investments	Displays environmental justice grants that the US Environmental Protection Agency (EPA) made through the Inflation Reduction Act (IRA) since 2024	Helped DOT grantees understand if their projects were in urban areas, an areas of persistent poverty, or were a historically disadvantaged community	Gave DOE and community members the ability to produce reports on disadvantaged census tracts as a part of the Justice40 Initiative
Intended audiences	Community members and local leaders	People interested in EPA grant making through the IRA	DOT grant applicants	DOE and community members