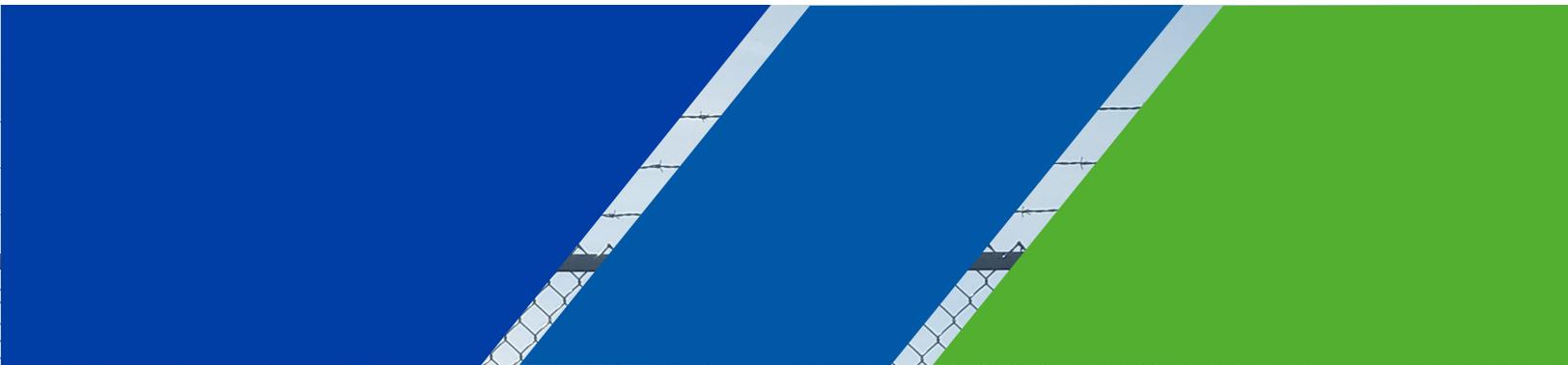




Appendix: J

Environmental Justice Screening Report



TWEED
NEW HAVEN
AIRPORT

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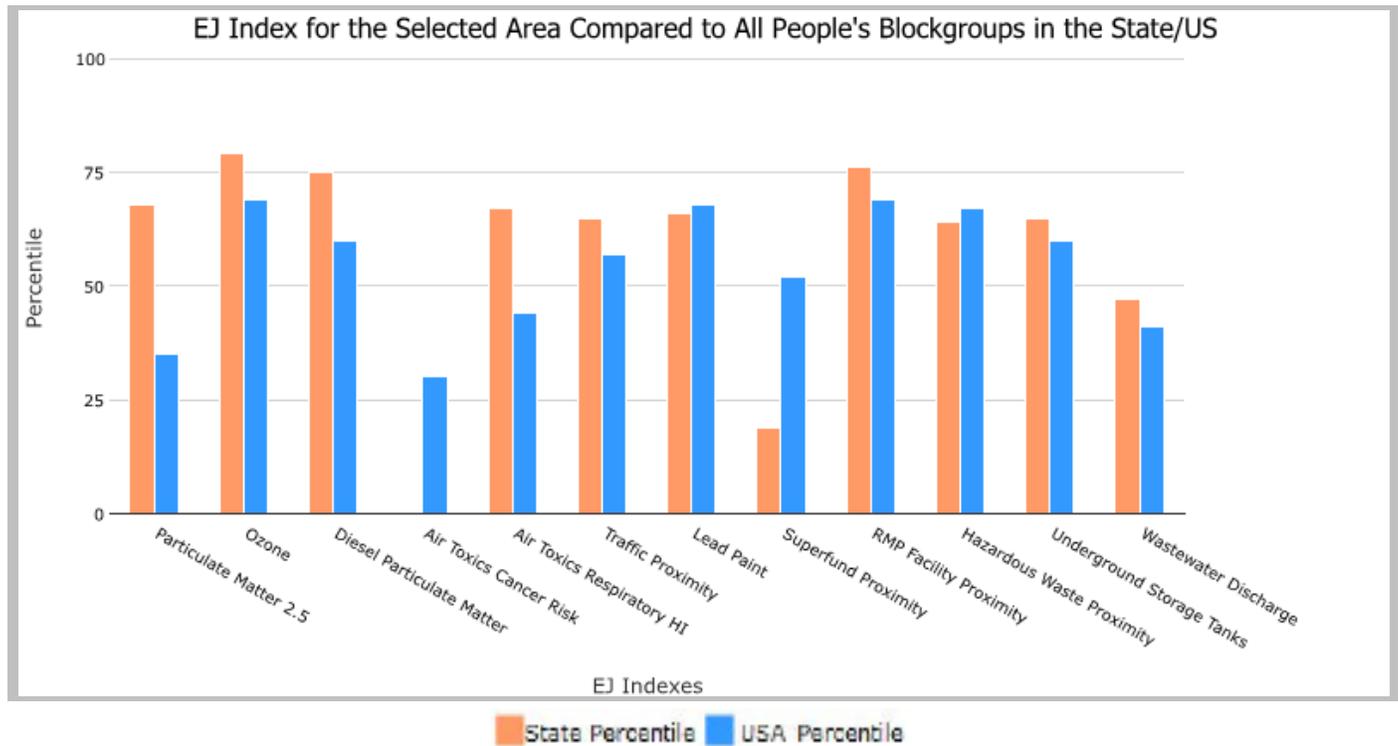
EPA EJScreen Report for the Study Area

the User Specified Area, CONNECTICUT, EPA Region 1

Approximate Population: 21,249

Input Area (sq. miles): 6.51

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	68	35
EJ Index for Ozone	79	69
EJ Index for Diesel Particulate Matter*	75	60
EJ Index for Air Toxics Cancer Risk*	0	30
EJ Index for Air Toxics Respiratory HI*	67	44
EJ Index for Traffic Proximity	65	57
EJ Index for Lead Paint	66	68
EJ Index for Superfund Proximity	19	52
EJ Index for RMP Facility Proximity	76	69
EJ Index for Hazardous Waste Proximity	64	67
EJ Index for Underground Storage Tanks	65	60
EJ Index for Wastewater Discharge	47	41



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

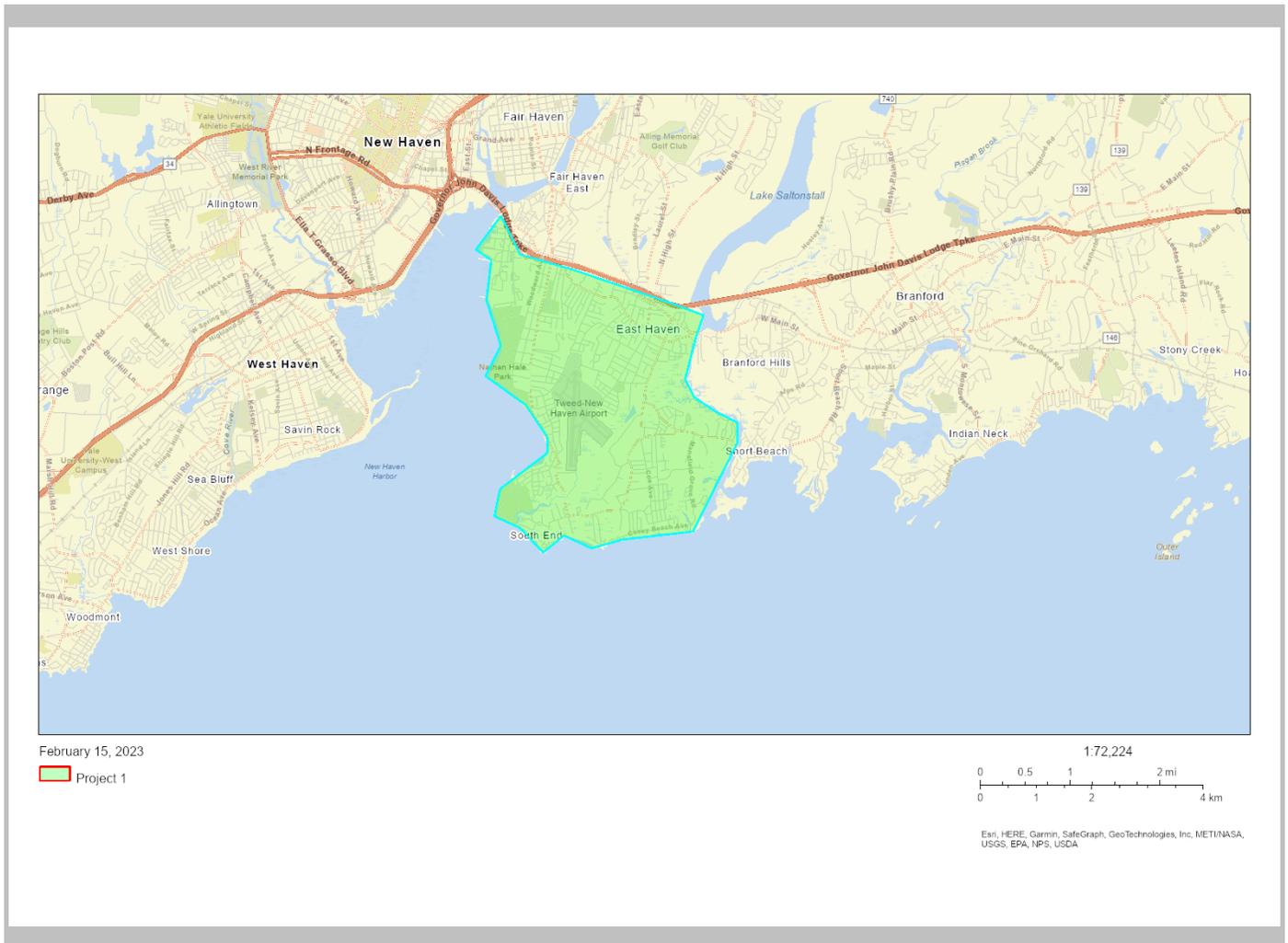
EJScreen Report (Version 2.1)



the User Specified Area, CONNECTICUT, EPA Region 1

Approximate Population: 21,249

Input Area (sq. miles): 6.51



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	2

EJScreen Report (Version 2.1)

the User Specified Area, CONNECTICUT, EPA Region 1

Approximate Population: 21,249

Input Area (sq. miles): 6.51

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	7.6	7.36	57	8.67	24
Ozone (ppb)	44	42.7	77	42.5	68
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.274	0.199	84	0.294	50-60th
Air Toxics Cancer Risk* (lifetime risk per million)	20	23	0	28	<50th
Air Toxics Respiratory HI*	0.3	0.28	99	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	800	650	79	760	77
Lead Paint (% Pre-1960 Housing)	0.47	0.43	55	0.27	71
Superfund Proximity (site count/km distance)	0.047	0.13	10	0.13	42
RMP Facility Proximity (facility count/km distance)	1.3	0.55	89	0.77	81
Hazardous Waste Proximity (facility count/km distance)	2.9	3	57	2.2	78
Underground Storage Tanks (count/km ²)	3.2	4.6	62	3.9	68
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0023	0.051	63	12	56
Socioeconomic Indicators					
Demographic Index	30%	28%	64	35%	51
People of Color	33%	34%	61	40%	53
Low Income	26%	22%	68	30%	48
Unemployment Rate	6%	6%	63	5%	67
Limited English Speaking Households	2%	5%	58	5%	65
Less Than High School Education	9%	9%	65	12%	53
Under Age 5	4%	5%	48	6%	41
Over Age 64	18%	17%	58	16%	61

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

EPA EJScreen Report for New Haven County

EJScreen Report (Version 2.1)

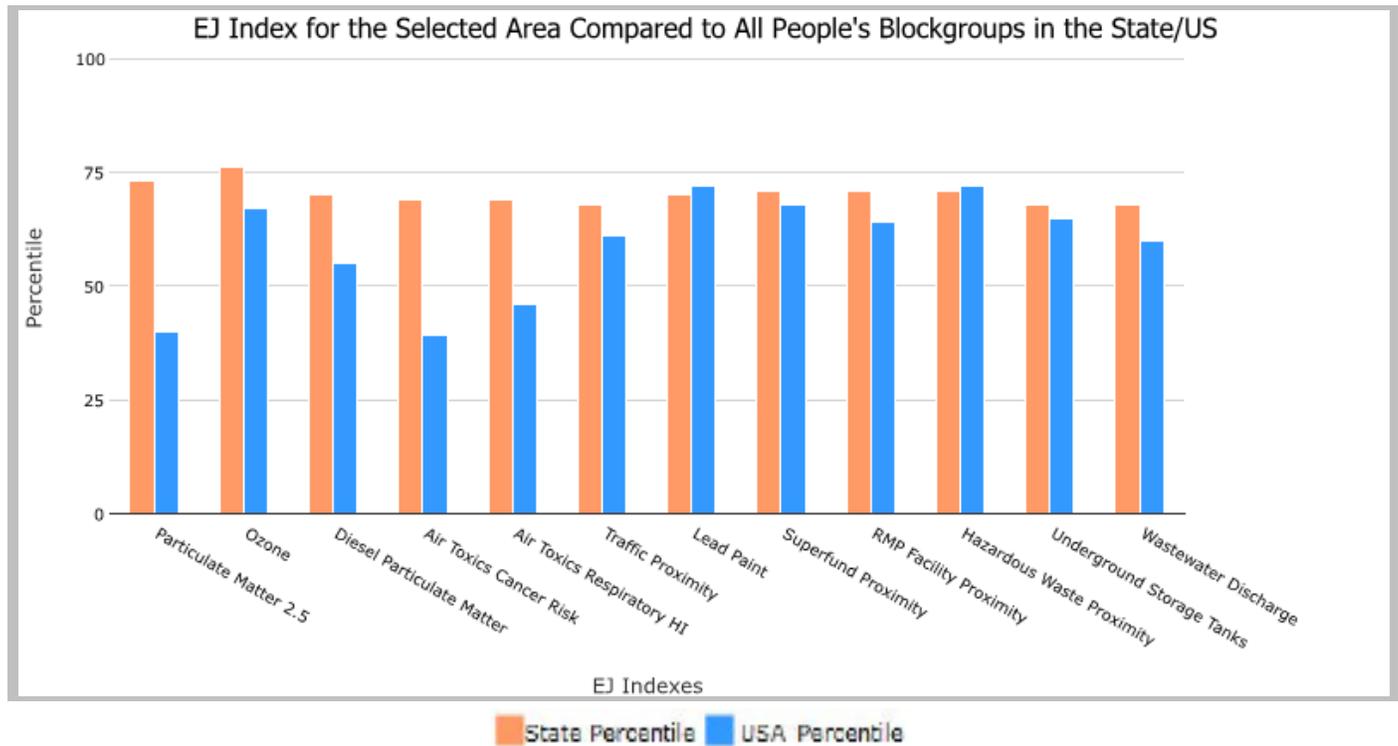
County: New Haven, CONNECTICUT, EPA Region 1

Approximate Population: 855,733

Input Area (sq. miles): 862.06

(The study area contains 2 blockgroup(s) with zero population.)

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	73	40
EJ Index for Ozone	76	67
EJ Index for Diesel Particulate Matter*	70	55
EJ Index for Air Toxics Cancer Risk*	69	39
EJ Index for Air Toxics Respiratory HI*	69	46
EJ Index for Traffic Proximity	68	61
EJ Index for Lead Paint	70	72
EJ Index for Superfund Proximity	71	68
EJ Index for RMP Facility Proximity	71	64
EJ Index for Hazardous Waste Proximity	71	72
EJ Index for Underground Storage Tanks	68	65
EJ Index for Wastewater Discharge	68	60



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJScreen Report (Version 2.1)

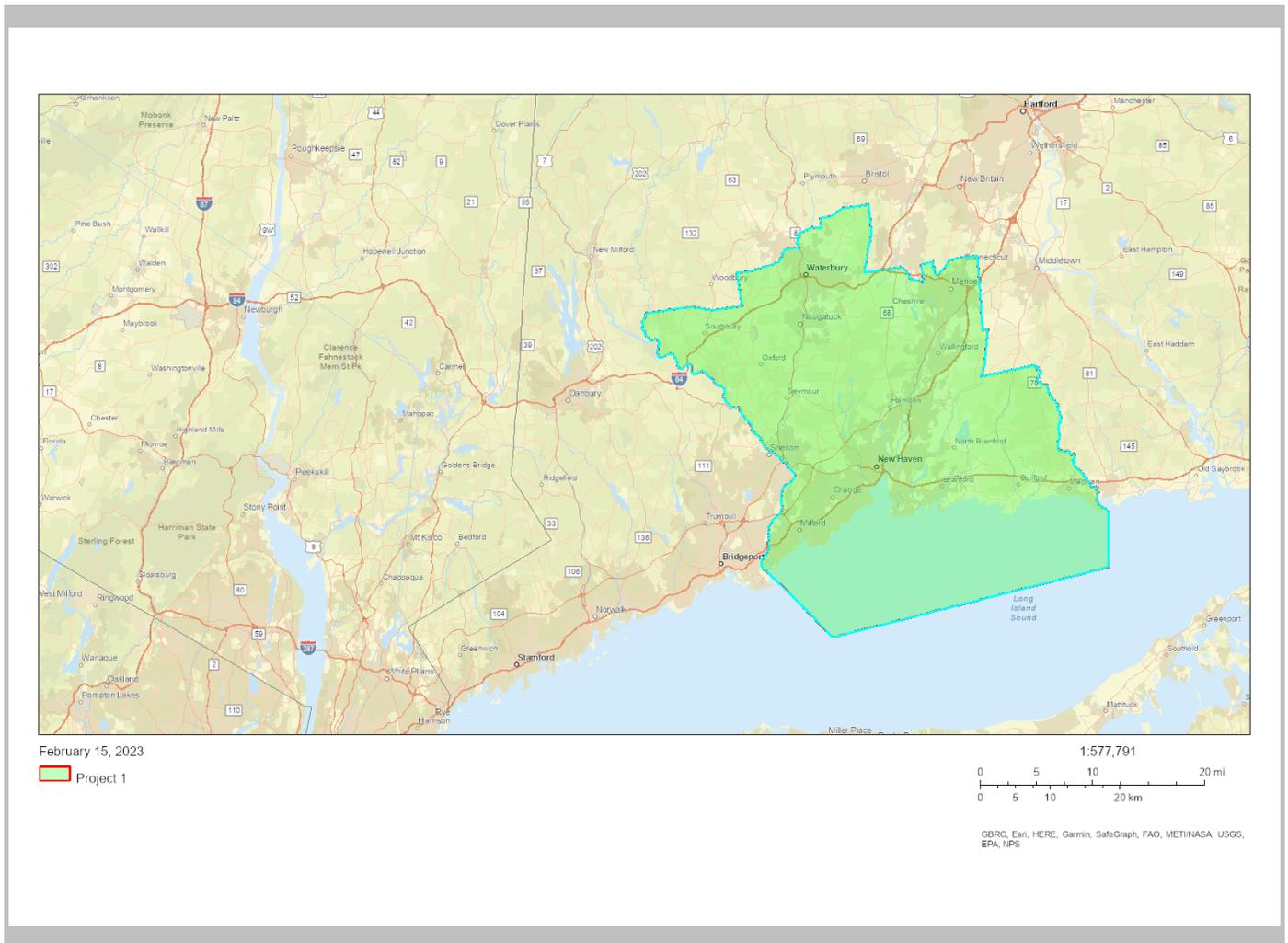


County: New Haven, CONNECTICUT, EPA Region 1

Approximate Population: 855,733

Input Area (sq. miles): 862.06

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Sites reporting to EPA	
Superfund NPL	3
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	98

EJScreen Report (Version 2.1)

County: New Haven, CONNECTICUT, EPA Region 1

Approximate Population: 855,733

Input Area (sq. miles): 862.06

(The study area contains 2 blockgroup(s) with zero population.)

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	7.66	7.36	60	8.67	25
Ozone (ppb)	43.1	42.7	64	42.5	58
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.209	0.199	58	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	21	23	72	28	<50th
Air Toxics Respiratory HI*	0.3	0.28	96	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	680	650	77	760	74
Lead Paint (% Pre-1960 Housing)	0.46	0.43	54	0.27	71
Superfund Proximity (site count/km distance)	0.16	0.13	82	0.13	81
RMP Facility Proximity (facility count/km distance)	0.71	0.55	73	0.77	67
Hazardous Waste Proximity (facility count/km distance)	3.6	3	66	2.2	82
Underground Storage Tanks (count/km ²)	4.5	4.6	70	3.9	75
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.048	0.051	89	12	80
Socioeconomic Indicators					
Demographic Index	32%	28%	66	35%	54
People of Color	38%	34%	65	40%	58
Low Income	25%	22%	66	30%	46
Unemployment Rate	6%	6%	64	5%	68
Limited English Speaking Households	5%	5%	72	5%	75
Less Than High School Education	10%	9%	67	12%	55
Under Age 5	5%	5%	60	6%	52
Over Age 64	17%	17%	54	16%	58

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

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CDC Environmental Justice Index Explorer – Study Area

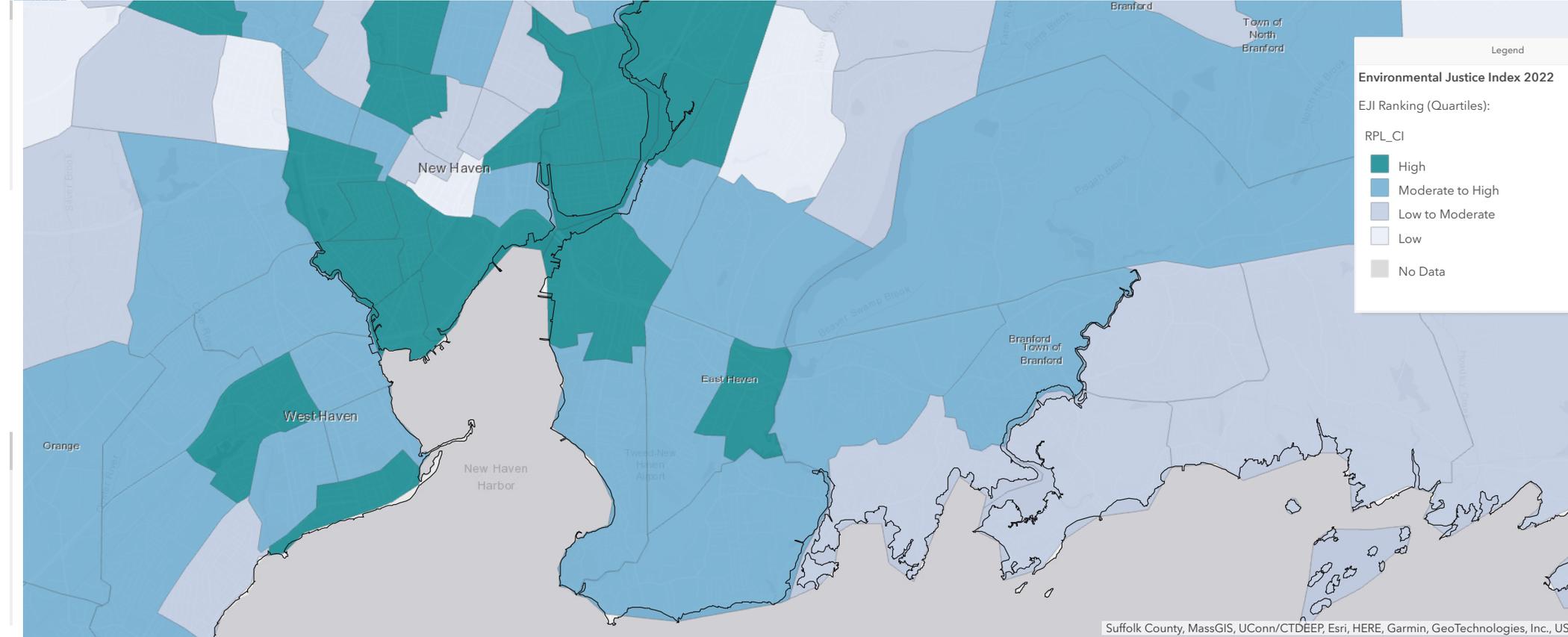
The Environmental Justice Index measures cumulative impacts of environment and vulnerability to build towards a cleaner, healthier, and more equitable future for all.

[Web Accessibility Tool](#)[Submit Feedback](#)[Download the Data](#)

Explore the EJI Map

The **Environmental Justice Index (EJI)** scores census tracts using a percentile ranking which represents the proportion of tracts that experience cumulative impacts of environmental burden and injustice equal to or lower than a tract of interest. For example, an EJI ranking of 0.85 signifies that 85% of tracts in the nation likely experience less severe cumulative impacts on health and well-being than the tract of interest, and that 15% of tracts in the nation likely experience more severe cumulative impacts from environmental burden. Click [here](#) for more information on EJI background and methods.

CDC **ATSDR** Environmental Justice Index (EJI) Explorer



Suffolk County, MassGIS, UConn/CTDEEP, Esri, HERE, Garmin, GeoTechnologies, Inc., US

[EJI Cumulative Impacts](#) | [About EJI](#)

EJI Highlights The profiles below explain cases of U.S. communities facing environmental injustice. Click on the tabs to learn more. You can also click the county names (in blue) to zoom the map to the highlighted community/county.

EJI Highlight
Flint, Michigan

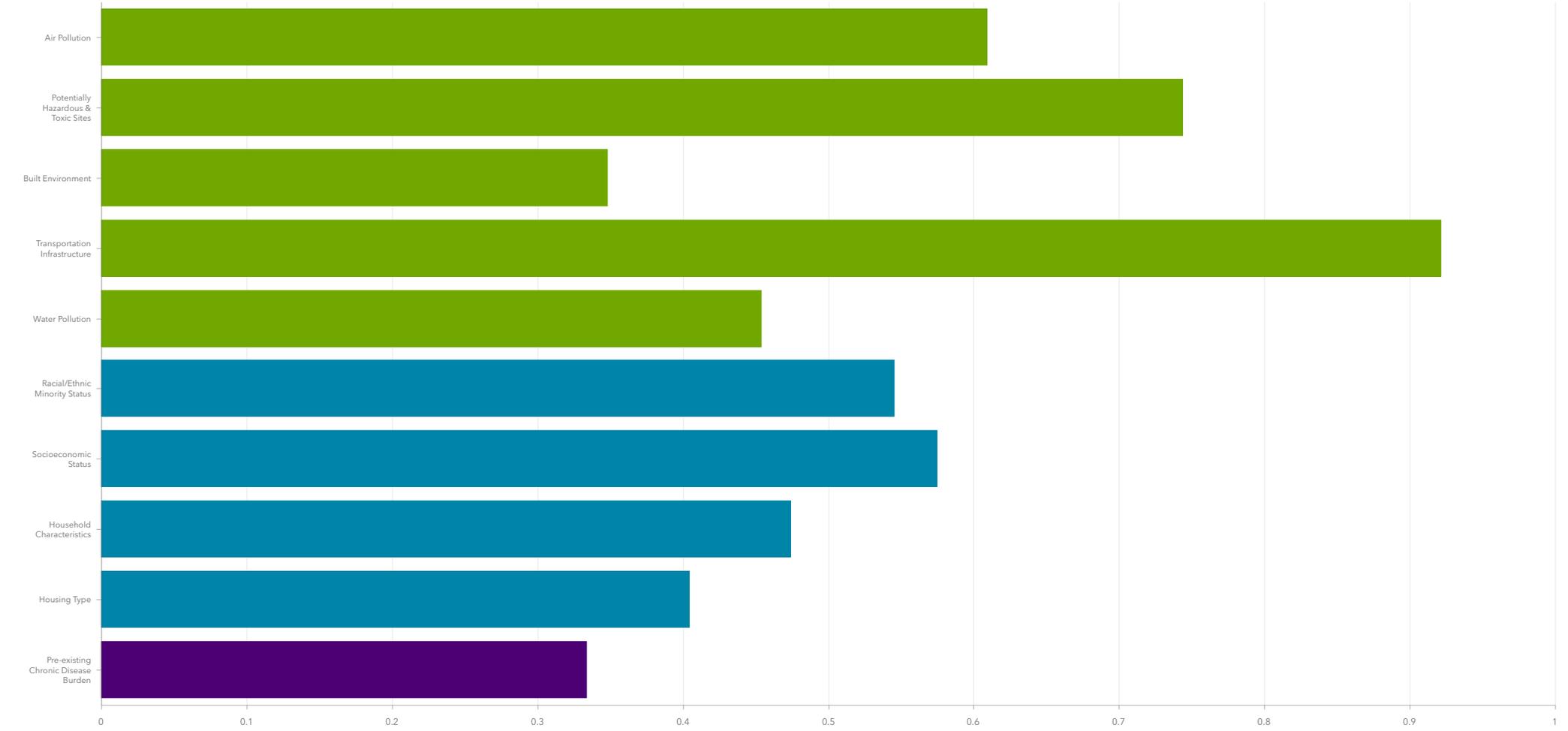
The city of Flint in [Genesee County](#), Michigan is the site of an ongoing drinking water crisis that began in 2014 and that disproportionately affects black and low-income residents,* a legacy of a century of environmental racism. Average EJI ranking for the city's neighborhoods show that Flint's communities experience worse cumulative impacts than 85% of communities nationwide. These neighborhoods rank among the highest in the nation for water pollution, estimated chronic disease burden, as well as for percent of resident population that identify as a racial or ethnic minority or who face socioeconomic hardship.

* Campbell, C., Greenberg, R., Mankikar, D., & Ross, R. D. (2016). A case study of environmental injustice: The failure in Flint. *International journal of environmental research and public health*, 13(10), 951.
** Rosner, D. (2016). Flint, Michigan: a century of environmental injustice. *American journal of public health*, 106(2), 200-201.

[Flint, MI](#) | [Warren County, NC](#) | [San Joaquin Valley](#)

CDC **ATSDR** Environmental Justice Index (EJI) Explorer

Percentile Ranks of Domains in the Environmental Justice Index (average rank in current map extent or state/county selected)



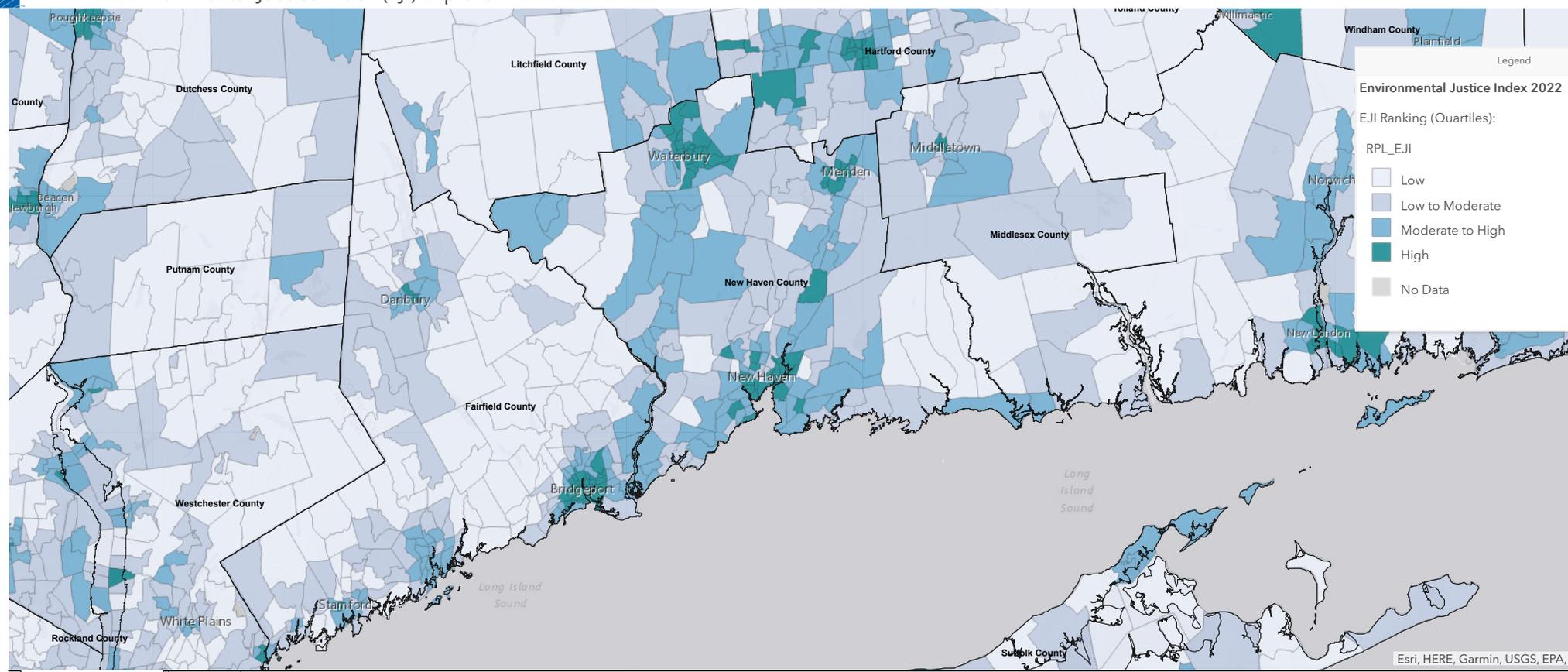
Note: If "No Data" check extent or remove state/county filter

Last update: a minute ago

CDC Environmental Justice Index Explorer – New Haven County

CDC ATSDR Environmental Justice Index (EJI) Explorer

Quick Start Guide
To display the legend:



Legend

Environmental Justice Index 2022

EJI Ranking (Quartiles):

RPL_EJI

- Low
- Low to Moderate
- Moderate to High
- High
- No Data

[EJI Cumulative Impacts](#) | [About EJI](#)

EJI Highlights

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Flint, Michigan

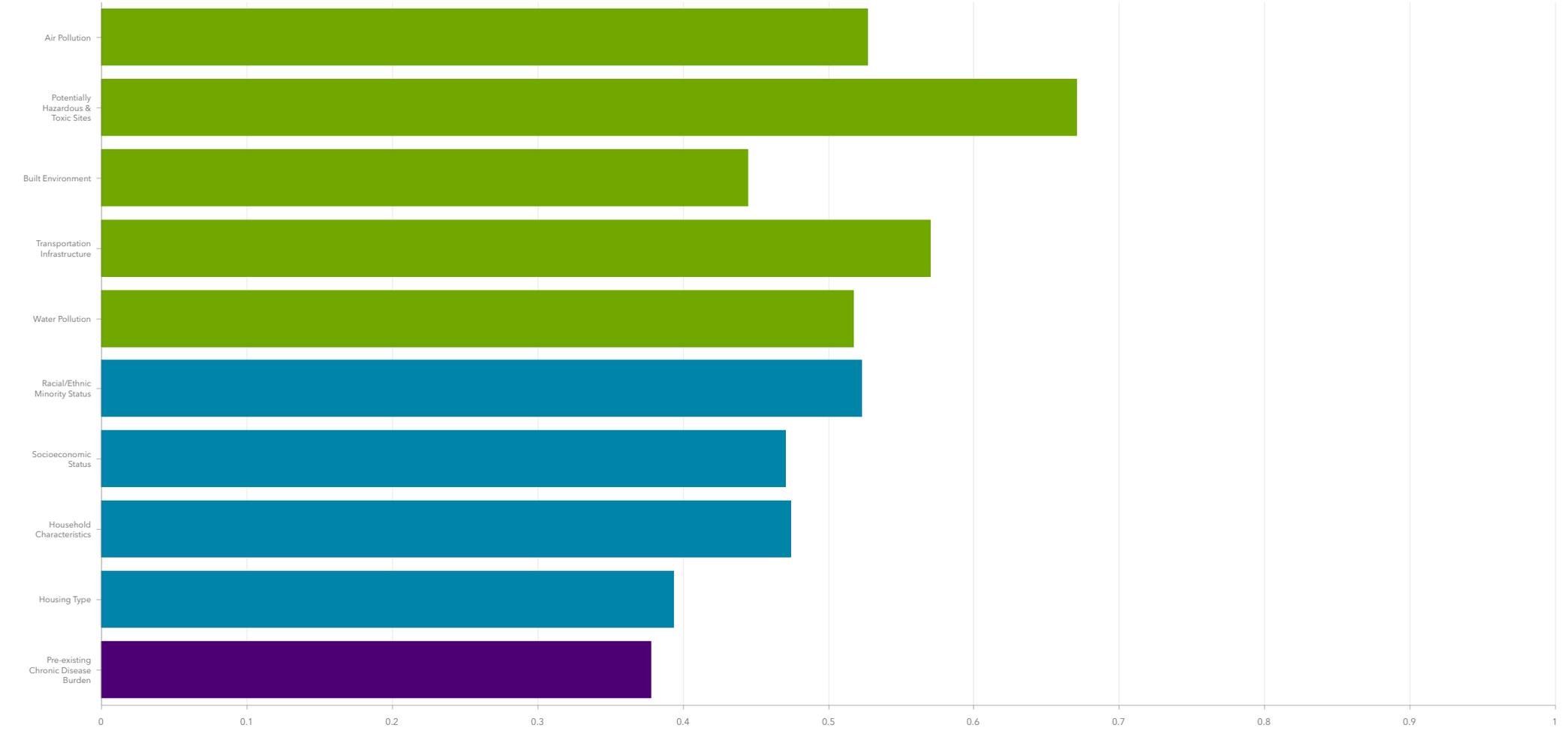
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[Flint, MI](#) | [Warren County, NC](#) | [San Joaquin Valley](#)

CDC **ATSDR** Environmental Justice Index (EJI) Explorer

Percentile Ranks of Domains in the Environmental Justice Index (average rank in current map extent or state/county selected)



Note: If "No Data" check extent or remove state/county filter

Last update: a few seconds ago