

APPENDIX C: OTHER ATTACHMENTS

APPENDIX C1: BALTIMORE-COLUMBIA-TOWSON PRIORITY CLIMATE ACTION PLAN

The Baltimore-Columbia-Towson Priority Climate Action Plan or PCAP is available on EPA's CPRG website ([Priority Climate Action Plan for the Baltimore Region \(epa.gov\)](#)) or by clicking [here](#). An excerpt of the regional PCAP is included in the proposal without the appendices.

Priority Climate Action Plan for the Baltimore Region

March 2024

PREPARED BY:

Baltimore Metropolitan Council, ICLEI-USA, and members of the Baltimore MSA CPRG Steering Committee

PREPARED FOR:

U.S. Environmental Protection Agency Region 3

Acknowledgements: Special Thanks to Steering Committee members: Baltimore City, Baltimore County, Carroll County, Harford County, Howard County, Queen Anne's County, and the Resilience Authority of Annapolis and Anne Arundel County. Many thanks to MDE for coordination opportunities and efforts.



Disclaimer: This project has been funded wholly or in part by the United States Environmental Protection Agency (EPA) under assistance agreement <number> to the Baltimore Metropolitan Council. The contents of this document do not necessarily reflect the views and policies of the EPA, nor does the EPA endorse trade names or recommend the use of commercial products mentioned in this document.

Contents

Purpose.....	3
Key Definitions and Acronyms.....	4
List of Figures.....	4
List of Tables.....	5
1 Introduction.....	6
1.1 CPRG Overview.....	6
1.2 Scope of the PCAP.....	7
1.3 Approach to Developing the PCAP.....	7
2 State/MSA Context.....	7
3 PCAP elements.....	9
3.1 Greenhouse Gas (GHG) Inventory.....	9
3.1.1 GHGI Scope.....	9
3.1.2 Methodology & Data Overview.....	9
3.1.3 GHG Emission Results.....	10
3.2 GHG Emissions Projections.....	11
3.2.1 GHG Emissions Projections Overview.....	11
3.3 GHG Reduction Targets.....	13
3.4 GHG Reduction Measures.....	13
3.5 Low Income Disadvantaged Communities Benefits Analysis.....	18
Identifying LIDACs.....	18
3.6 Review of Authority to Implement.....	22
3.7 Workforce Planning Analysis.....	22
4 Next Steps.....	22

Purpose

A partnership between jurisdictions of the Baltimore Metropolitan Council has come together with assistance from the U.S. Environmental Protection Agency's (EPA's) Climate Pollution Reduction Grant (CPRG) Planning Grant Program to create a Priority Climate Action Plan (PCAP). This plan covers Baltimore City, and the counties of Baltimore, Anne Arundel, Carroll, Harford, Howard, and Queen Anne's.

The purpose of the PCAP is to:

1. Improve our understanding of current and future greenhouse gas (GHG) emissions in the Baltimore region,
2. Identify priority strategies to reduce these emissions and to identify the potential other benefits of those strategies, and
3. Engage a variety of stakeholders in an emissions reduction planning process.

Additionally, the PCAP will inform the Comprehensive Climate Action Plan (CCAP), which is due two years from the date of the grant award made in July 2023.

The BMC, the Steering Committee, and the subgrantee - ICLEI-USA, have coordinated with the Maryland Department of Environment (MDE) to ensure methods of greenhouse gas (GHG) inventory development align to a reasonable degree with the State's approach.

Key Definitions and Acronyms

Priority Climate Action Plan (PCAP): a narrative report that includes a focused list of near-term, high-priority, and implementation-ready measures to reduce GHG pollution and an analysis of GHG emissions reductions.

Comprehensive Climate Action Plan (CCAP): a narrative report that provides an overview of the grantees' significant GHG sources/sinks and sectors, establishes near-term and long-term GHG emission reduction goals, and provides strategies and identifies measures that address the highest priority sectors to help the grantees meet those goals.

Greenhouse Gas (GHG) Inventory: a list of emission sources and sinks and the associated emissions quantified using standard methods. The PCAP includes a simplified inventory. The CCAP will include a comprehensive inventory of emissions and sinks for the following sectors: industry, electricity generation/use, transportation, commercial and residential buildings, agriculture, natural and working lands, and waste and materials management.

Low Income / Disadvantaged Communities (LIDACs): communities with residents that have low incomes, limited access to resources, and disproportionate exposure to environmental or climate burdens. The project team is using the [Climate and Economic Justice Screening Tool](#) and the [Environmental Justice Screening and Mapping Tool](#) to identify LIDACs in the Baltimore region, as recommended by EPA. These tools identify LIDACs by assessing indicators for categories of burden: air quality, climate change, energy, environmental hazards, health, housing, legacy pollution, transportation,

water and wastewater, and workforce development. Please see the Appendix for a list of LIDAC communities in the region.

MSA: metropolitan statistical areas as defined by the U.S. Census 2020 MSA population.

List of Figures

- Figure 1. Geographic Planning Area for the Baltimore Region PCAP.....7
- Figure 2. Metric Tons CO₂e by Sector.....11
- Figure 3. GHG Projections 2021-2030.....12
- Figure 4. GHG Projections 2021-2050.....12
- Figure 5. GHG Reductions by Strategy.....18
- Figure 6. Low Income/Disadvantaged Communities (LIDAC) in the Baltimore Region.... 20

List of Tables

- Table 1. Summary of Emissions by Sector.....10
- Table 2. Regional Greenhouse Gas Inventory.....24
- Table 3. BAU Emissions, Net Reductions per Action, & Remaining Emissions after Implementation (MT CO₂e).....26
- Table 4. GHG Reduction Projections (MT CO₂e) and Percent Change from Baseline27
- Table 5. Transportation & Mobile Sources.....28
- Table 6. Grid Electricity.....29
- Table 7. Solid Waste.....30
- Table 8. Other Sources.....31
- Table 9. Projection Growth Rates.....33
- Table 10. GHG Reduction Strategies.....34
- Table 11. Authority to Implement.....37

1 Introduction

1.1 CPRG Overview

Seven local jurisdictions of the Baltimore-Columbia-Towson Metropolitan Statistical Area and the Baltimore Metropolitan Council (BMC) have come together in an effort to develop a shared plan for moving the region forward in addressing harmful greenhouse gas emissions. This shared effort will consist of the following:

- ❖ A Priority Climate Action Plan (PCAP);
- ❖ A Comprehensive Climate Action Plan (CCAP), due approximately July 31, 2025; and,
- ❖ A Status Report, due at the close of the four-year grant period.

The Baltimore Metropolitan Council (BMC) oversaw and coordinated the development of this PCAP. This document focuses on developing a recommended set of priority greenhouse gas (GHG) reduction measures for the Baltimore region. As part of the process of developing the list of priority GHG reduction measures, the following were prepared:

- A preliminary regional greenhouse gas emissions inventory with a 2021 emissions reporting year,
- GHG emissions projections for 2030 and 2050,
- GHG reduction targets
- An initial benefits analysis for Low Income Disadvantaged Communities (LIDAC),
- A review of authority to implement, and,
- An initial workforce planning analysis.

Given the variation in climate action planning readiness across the seven jurisdictions in the MSA, the intent of the PCAP is to identify regional priorities to reduce the emissions of greenhouse gases, sequester carbon and highlight the most urgent climate mitigation and adaptation needs for climate-vulnerable communities in each county/city participating in this planning process. Current priorities outlined in existing climate action, sustainability, resilience or other related plans from jurisdictions in the MSA are reflected in this document.

BMC contracted with ICLEI-Local Governments for Sustainability USA (ICLEI) to develop a regional greenhouse gas inventory. With input from ICLEI on the potential reductions possible from various reduction measures, the Steering Committee developed a list of high impact greenhouse gas emission reduction measures, called the priority GHG reduction measures. Emission reductions from these measures, achievable by 2030 and 2050 were calculated by ICLEI, and are included in Appendix A. The CCAP, to be developed in 2024, and completed in 2025, will include a more comprehensive regional greenhouse gas emissions inventory, GHG emissions projections for 2030 and 2045, GHG reduction targets, a more comprehensive list of quantified greenhouse gas emission reduction measures, a benefits analysis including analyses for LIDAC, a review of authority to implement and intersection with other funding available, and a workforce planning analysis.

The priority measures identified in the PCAP will most likely be included in the CCAP. Additional measures to reduce GHG emissions will be identified and quantified. The additional measures will also be evaluated for other items including LIDAC benefits. As in the PCAP, ICLEI will perform technical analyses necessary for the CCAP.

In developing the PCAP, the [State of Maryland's Climate Pollution Reduction Plan](#) and existing local climate action plans were reviewed as demonstrated in Section 2.1. Jurisdictions led a significant amount of local engagement to develop local climate action plans, which then contributed towards the Baltimore Region PCAP and its priority emission reduction measures.

1.2 Scope of the PCAP

The geographic scope of the PCAP covers the City of Baltimore and Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's Counties. The greenhouse gas inventory (GHGI) as well as the reductions resulting from emission reduction measures consider the entire geographic planning area above. It is our intent to look further into emissions from each individual jurisdiction in the CCAP document in 2025.

1.3 Approach to Developing the PCAP

The Baltimore Metropolitan Council (BMC) oversaw and coordinated the development of this Priority Climate Action Plan covering all of the jurisdictions in the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA). This PCAP includes a preliminary regional greenhouse gas emissions inventory, a list of priority greenhouse gas emission reduction measures, an initial benefits analysis for LIDAC, and a review of authority to implement.

2 State/MSA Context

The Baltimore-Columbia-Towson Metropolitan Statistical Area (hereafter referred to as Baltimore MSA) includes 6 counties in the State of Maryland - Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's - and the City of Baltimore. Figure 1 below depicts the geographic region.

The Baltimore Metropolitan Council is a quasi-governmental nonprofit entity in which there is a Board made up of the elected officials of the participating seven jurisdictions. BMC staff led the non-competitive planning grant for the region's PCAP, provided project management, oversaw subaward efforts, contracts with consultant(s), and will house the compiled regional greenhouse gas inventory data. Local jurisdictions in the MSA have a number of existing climate action plans, greenhouse gas inventories, and local government initiatives and ordinances that help to achieve greenhouse gas emission reductions (see below). However, more than half of the jurisdictions do not have updated community-wide GHG inventories or plans focused on reducing greenhouse gas emissions. Much effort in the past several years in the region has focused on resilience to the effects of climate change, due to the proximity of the region to the shoreline of the Chesapeake Bay. Below are just a few examples of existing plans, efforts, and goals.

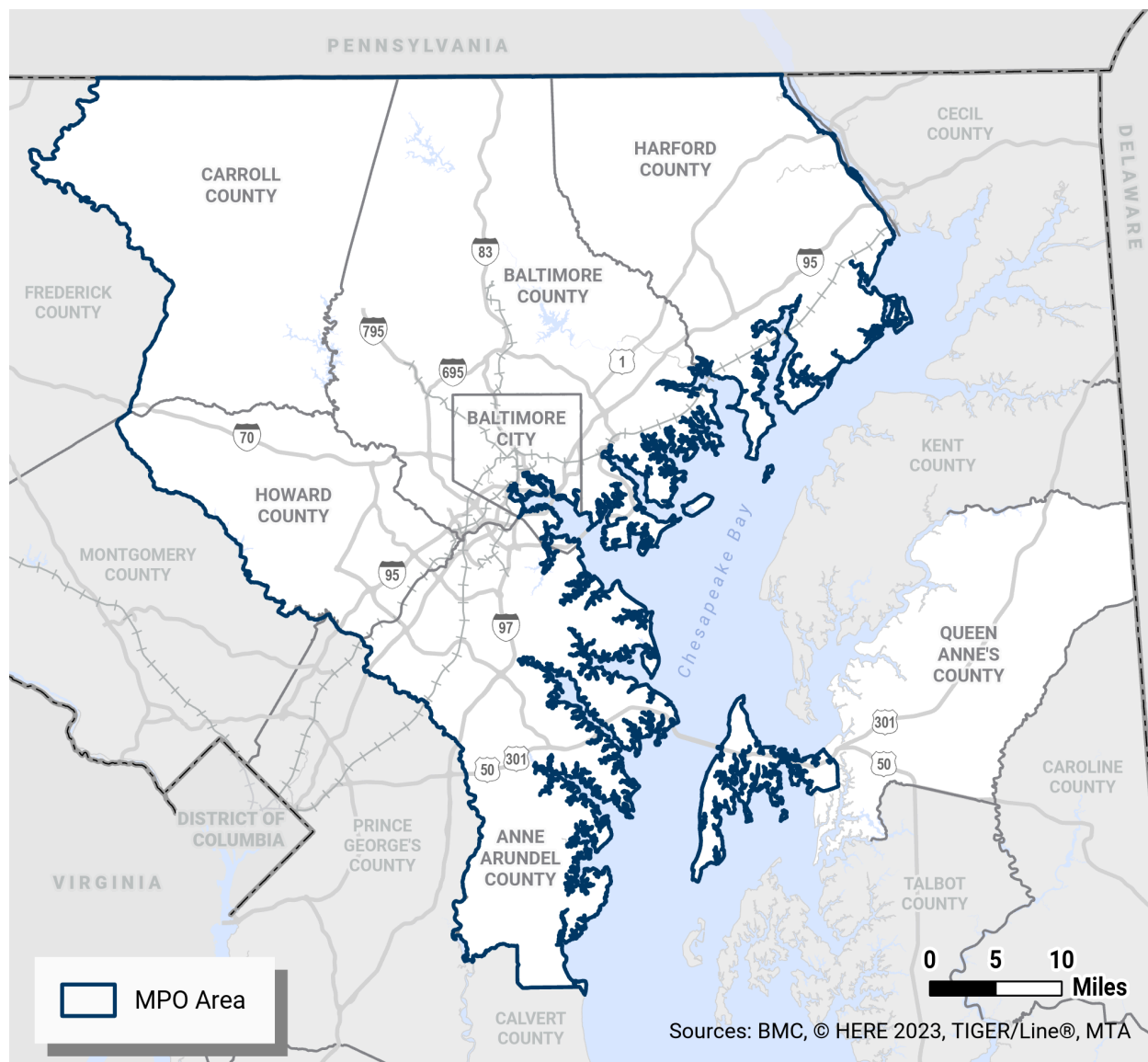


Figure 1. Geographic Planning Area for the Baltimore Region PCAP

2.1 Existing/In Development Climate Action or Related Plans

The following existing or in-development Climate Action Plans were taken into account when developing this PCAP:

- **Howard County Climate Forward: Climate Action and Resiliency Plan¹** is a community-wide and whole-of-government work plan to achieve a 60% reduction in GHG emissions by 2030 and become net-zero by 2045. The plan includes policy context, the impacts of climate change locally, differential impacts to underserved communities, a GHG inventory, and subsequent

¹ <https://www.epa.gov/system/files/documents/2023-12/howard-county-climate-action-plan.pdf>

strategies, actions, and next steps that the County and community need to take to reach the goals specified in the plan.

- **Baltimore City's 2024 Climate Action Plan update**² is a guide to how Baltimore will meet its ambitious and critical goal to reduce carbon emissions by 60% by 2030. Following requirements in Baltimore City Ordinance 22-131, this CAP Update considers concerns beyond GHG reduction, including key environmental justice and community benefits such as public health. The resulting plan is a roadmap for the City in making decisions that reduce GHG emissions, address environmental injustice and compliments several citywide climate plans including the 2019 Sustainability Plan, 2023 Disaster Preparedness Planning Project or DP3, Solid Waste Management Plan and a Complete Streets Manual. These climate-focused plans in combination with CPRG funding provide a path toward a more sustainable, equitable, and resilient future.
- **Baltimore County Climate Action Plan (2021)**³
- **Queen Anne's County Climate Resilience Planning and Financing Draft Plan (2019 -)**

Additionally, several of the region's local jurisdictions have established climate-related goals, as demonstrated below:

- Queen Anne's County Climate Resolutions (2007, 2008)
- Baltimore City [Disaster Preparedness](#) and [Climate Action](#) Plans (2023/2024)
- Baltimore City carbon neutrality commitment by 2045 (2022)
- Howard County's carbon neutrality commitment by 2045 (2022)

As local jurisdictions in the region create various planning products, such as mobility plans, solid waste plans, and master plans, these may include climate pollution reducing measures and measures to mitigate the effects of climate change:

- City of Annapolis Mobility Plan
- [Anne Arundel County Green Infrastructure Master Plan](#)
- [Anne Arundel County, Plan2040 General Development Plan](#)
- [Howard County By Design \(General Plan\) 2023](#)
- Baltimore City [Complete Streets Manual](#), [10-Year Solid Waste Management](#) & [Our Baltimore - Comprehensive Plan](#)

The PCAP for the Baltimore MSA builds on strategies, actions and activities in jurisdiction-led climate plans to inform a regional implementation grant proposal.

3 PCAP elements

The PCAP includes the following elements below: a greenhouse gas inventory (GHGI), GHG emission projections, GHG reduction measures, LIDAC benefits analysis, a review of authority to implement, and an initial workforce analysis.

² <https://baltimoreplanning.wixsite.com/climate>

³ <https://resources.baltimorecountymd.gov/Documents/Executive/sustainability/climateactionplan.pdf>

3.1 Greenhouse Gas Inventory (GHGI)

3.1.1 GHGI Scope

This Greenhouse Gas Inventory (GHGI) covers emissions from the Baltimore MSA. This Metropolitan Statistical Area represents an estimated 2021 population of 2,837,237. The base year for the regional GHGI is 2021. The grantees have chosen this year because of federal, state, and local data availability. This year also is representative of general emissions patterns. This inventory represents emission estimates for primary GHGs (i.e., CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃)⁴ for the Baltimore-region.

Version 1.2 of the U.S. Community Protocol for Accounting and Reporting GHG Emissions⁵, and additional activities/sources are considered in accordance with the Global Protocol for Community-Scale GHG Emissions Inventories. The Global Protocol was used as the methodological framework for the regional inventory. The scope covers sources and activities since they are the two central categorizations⁶ of emissions.

3.1.2 Methodology & Data Overview

GHG emissions are quantified in two ways:

1. Measurement-based methodologies refer to the direct measurement of GHG emissions (from a monitoring system) emitted from a flue of a power plant, wastewater treatment plant, landfill, or industrial facility.
2. Calculation-based methodologies calculate emissions using activity data and emission factors. To calculate emissions accordingly, the basic equation below is used:

$$\text{Activity Data} \times \text{Emission Factor} = \text{Emissions}$$

Most emissions sources in this inventory are quantified using calculation-based methodologies. Activity data refer to the relevant measurement of energy use or other GHG-generating processes such as fuel consumption by fuel type, metered annual electricity consumption, and annual vehicle miles traveled.

Known emission factors are used to convert energy usage or other activity data into associated quantities of emissions. Emissions factors are usually expressed in terms of emissions per unit of activity (e.g. MT CO₂/kWh of electricity). For this inventory, calculations were made using ICLEI's ClearPath Climate Planner tool⁷. **Tables 5 through 10 in Appendix B** provide an overview of data sources, methodologies and data gaps or assumptions.

3.1.3 GHG Emission Results

Table 1. Summary of Emissions by Sector, below, details the total metric tons of CO₂e by sector across the Baltimore MSA. Based on a GHGI for 2021, an estimated 45.5% of regional emissions in the MSA are due to transportation and mobile sources alone. As such, the first two reduction measures focus on reducing emissions by reducing vehicle miles traveled and propelling the adoption of zero emission

⁴ GHGs aside from CO₂, CH₄, N₂O are estimated from Industrial Processes and entered as CO₂ equivalent (CO₂e)

⁵ ICLEI. 2019. US Community Protocol for Accounting and Reporting Greenhouse Gas Emissions. Retrieved from <http://www.iclei.org/tools/ghg-protocol/community-protocol>

⁶ 1) GHG emissions that are produced by "sources" located within the community boundary, and 2) GHG emissions produced as a consequence of community "activities."

⁷ <https://iclei.org/clearpath/>

vehicles. Energy-related emissions contributed to 44.1% of regional MSA emissions in 2021, with residential, commercial and industrial emissions contributing 20.9%, 19.7% and 3.5%, respectively.

TABLE 1. Summary of Emissions by Sector	
Sector	Metric Tons CO ₂ e
Transportation & Mobile Sources	14,651,004
Solid Waste	719,585
Water & Wastewater	325,157
AFOLU	231,143
Commercial Energy	6,356,377
Industrial Energy	1,140,150
Residential Energy	6,737,837
Process & Fugitive Emissions	2,036,815

The third reduction measure focuses on decarbonizing, or electrifying stationary energy sources in the residential, commercial and industrial sectors while promoting energy efficiency. Collectively these sources contribute to 44.1% of regional emissions. Measure 4 focuses on waste reduction by both reducing and diverting waste from landfilling and incineration, in addition to reducing waste-related emissions. We include both solid waste and waste water in this measure, which together equal 3.21% of the total. Measure 5 relates to the sequestration of carbon and strengthening carbon sinks through nature-based solutions.

Measures 6 and 7 are not directly related to emission reductions, but focus on enhancing the capacity of local governments to achieve climate goals and engagement targets to scale up behavior change across the region. We include these measures to highlight the inputs, outputs and activities which will feed into the aforementioned reduction targets.

Figure 2 is a pie chart reflecting the percentage of each emission category in relation to the total. See **Table 2: Regional Greenhouse Gas Inventory** in **Appendix A** which details the findings of the regional GHGI and all sector-related emissions included.

Metric Tons CO₂e by Sector

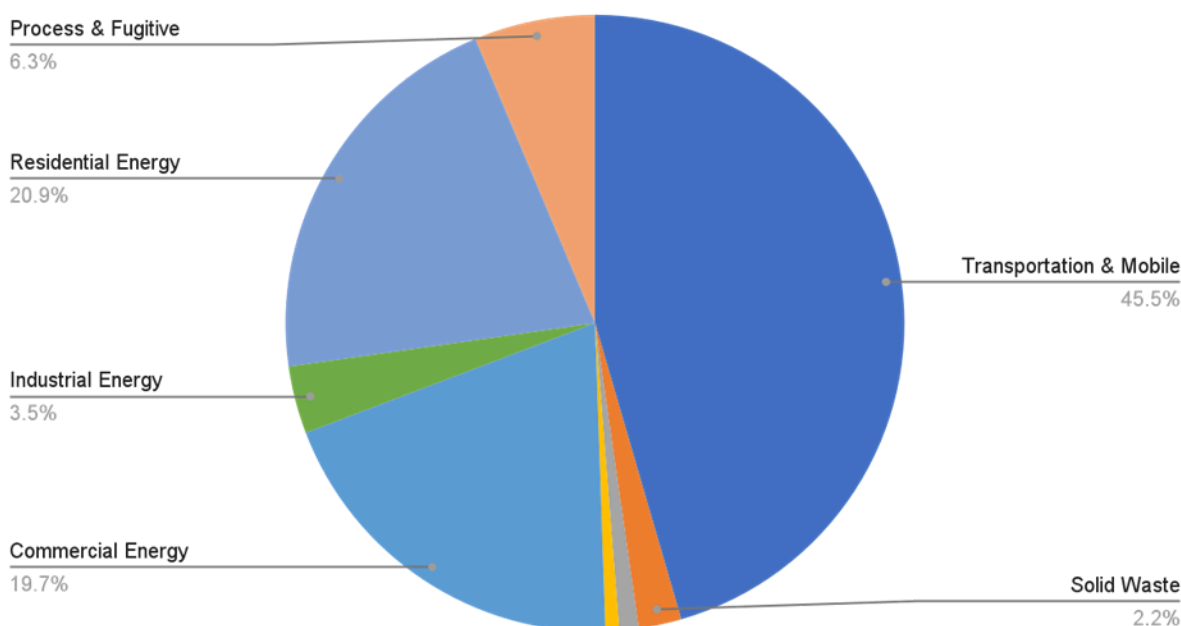


FIGURE 2. Metric Tons CO₂e by Sector

3.2 GHG Emissions Projections

3.2.1 GHG Emissions Projections Overview

This Priority Climate Action Plan uses a Business as Usual projection from 2021 (base year) to 2030 and 2050. This projection was carried out for every activity/source based on various activity growth rates and carbon intensity growth rates. These growth rates are detailed in **Tables 3: BAU Emissions, Net Reductions per Action, & Remaining Emissions after Implementation (MT CO₂e)** and **Table 4 GHG Reduction Projections (MT CO₂e) and Percent Change from Baseline**.

Projections in **Figure 3** and **Figure 4** are Business As Usual (BAU), representing expected emissions changes based on current activities (passed legislation, growth, etc.) and does not consider any intervention such as GHG reduction strategies.

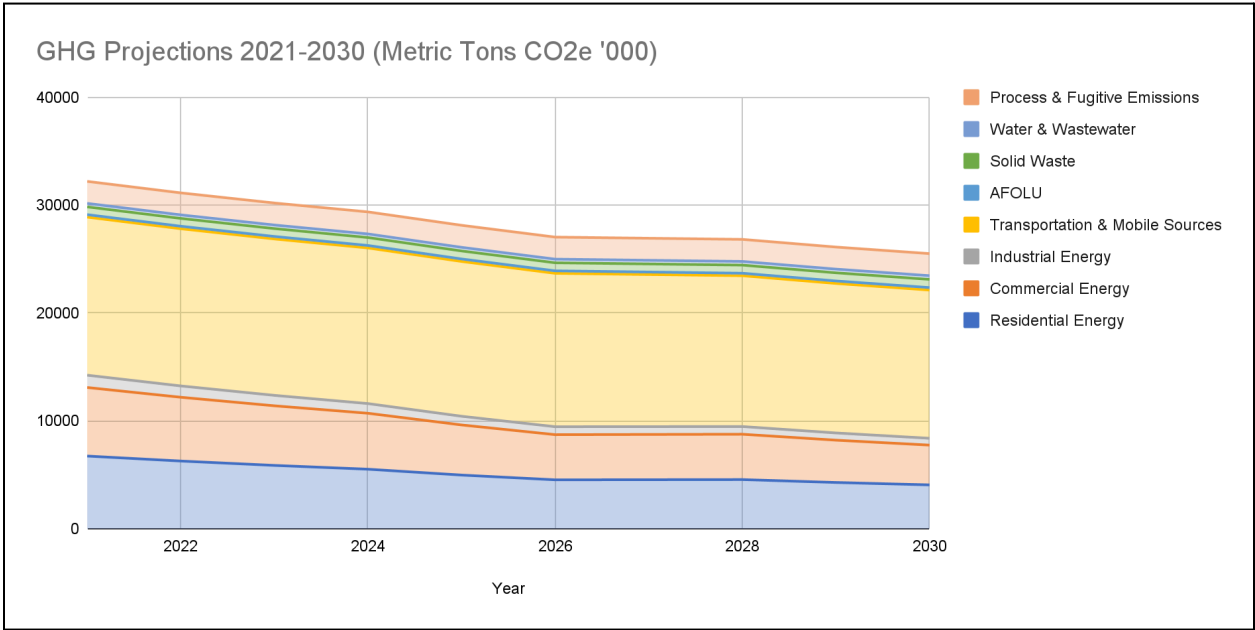


FIGURE 3. GHG Projections 2021-2030

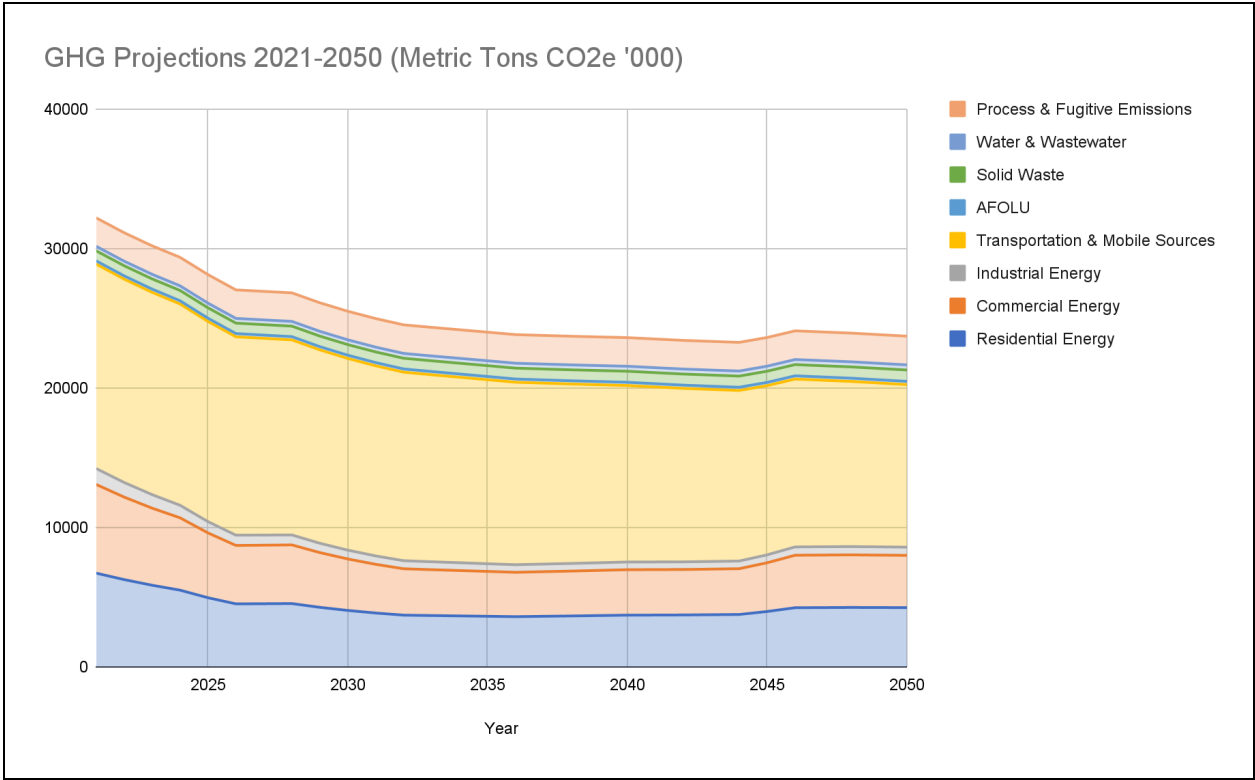


FIGURE 4. GHG Projections 2021-2050

3.3 GHG Reduction Targets

The Baltimore MSA has set the following priority targets in alignment with the State of Maryland's 2022 Climate Solutions Now Act:

- 60% by 2031 (compared to 2006 baselines)
- Net-Zero by 2045

The MSA has prioritized targets to maintain consistency with the state's goals and Science-Based Targets⁸ (SBTs). While the state's baseline is 2006 and this priority GHGI is the region's first baseline inventory (2021), both goals are generally in line⁹ with Science-Based Targets. Science-based targets (SBTs) are climate goals in line with the latest climate science. They represent a community's fair share of the ambition necessary to meet the Paris Agreement commitment to keep warming below 1.5 °C. To achieve this goal, the Intergovernmental Panel on Climate Change (IPCC) states that we must reduce global emissions by 50% by 2030 and achieve climate neutrality by 2050. Equitably reducing global emissions by 50% requires that high-emitting, wealthy nations reduce their emissions by more than 50%.

3.4 GHG Reduction Measures

Based upon an analysis of the GHGI, existing local and state climate action plans, and consideration of impact on LIDAC communities, and co-benefits, the following list of Priority GHG Reduction Measures was decided upon by the Baltimore MSA CPRG Steering Committee. It includes a total of seven measures that reduce GHG emissions and those that enhance carbon sinks. **Appendix C** includes several local plans with additional actions and priorities in alignment with the seven measures detailed here.

Given the significant portion of regional emissions from transportation and energy-related sources, we recommend that investments support activities that reduce emissions in these sectors.

Maryland's Climate Solutions Now Act (CSNA), adopted in 2022 by the Maryland General Assembly, makes broad changes to the State's approach to reducing statewide GHG emissions and addressing climate change. The federal Carbon Reduction Program, created by the Bipartisan Infrastructure Law (BIL), also facilitates:

- The use of public transportation facilities, pedestrian facilities, bicycle facilities, and shared or carpoled trips to reduce vehicle miles traveled by single-occupancy operated vehicles;
- The use of vehicles or modes of travel that result in lower transportation emissions; and,
- Approaches to the material use and construction of transportation assets that lower transportation emissions.

A Maryland Carbon Reduction Strategy, developed in consultation with the metropolitan planning organizations in Maryland, outlines approaches, programs, and projects to address transportation sector emissions. The National Blueprint for Transportation Decarbonization, resulting from a joint agreement among the U.S. Department of Energy (DOE), U.S. Department of Transportation (DOT), U.S. Environmental Protection Agency (EPA), and U.S. Department of Housing and Urban Development (HUD), is a strategy for cutting all GHG emissions from the transportation sector by 2050. Locally, Maryland Department of Transportation (MDOT) will help lead and coordinate State and local action to

⁸ [Science-Based Targets](#)

⁹ 2031 target is more than 50%, which considers the MSA's fair share of global emissions reduction

implement the strategy. Maryland and the Baltimore-MSA are also exploring future, expanded transit options through the revived Red Line Project led by the Maryland Transit Administration (MTA) and supported by the City's Department of Transportation. The proposed Red Line is a 14-mile transit line that would provide service between the Woodlawn area of Baltimore County and the Johns Hopkins Bayview Medical Center. When complete, the Red Line will make it easier, faster, and cheaper to travel across the greater Baltimore area. Measures for the Baltimore MSA PCAP are also in alignment with those in Maryland's Climate Pollution Reduction Plan.

MEASURE 1: REDUCE TRANSPORTATION-RELATED EMISSIONS 25% BY 2030; 91% BY 2050

- **VMT Reduction – 25% by 2050 – Gasoline:** The 2021 regional GHGI reflected gasoline-powered vehicles contribute to a total of **24 billion VMT** and make up **32.5% (10.5 MMTCO₂e)** of all regional emissions. To reduce VMT, the participating jurisdictions plan the following public transportation support measures:
 - Develop pedestrian zones in communities lacking adequate pedestrian-centered design. These pedestrian zones are intended to:
 - Foster/encourage mode shift from single occupant vehicles to more active forms of transportation such as walking, biking or the use of public transit.
 - Incorporate ecologic amenities that enhance overall community-level access to climate pollution reduction resources into historically divested communities (See **Appendix C** for examples)
 - Foster safer routes for children to/from school, area bus stops or paths/trails
 - Develop new parking standards with strategically placed restrictions and approaches to remove parking minimums
 - Establish electric car-sharing infrastructure and partner with rideshares to augment paratransit and mobility Programs through the Maryland Transit Administration
 - Deploy community electric vehicle sharing programs regionally to provide low-income or no-car households access to flexible electric-powered modes of transportation
 - Distribute free transit passes to those in need and as part of targeted outreach campaigns to strategically increase ridership
 - Identify neighborhoods that would benefit from microtransit options and conduct microtransit pilot projects or implement microtransit in areas of greatest need.
 - Install bus stop cooling infrastructure
 - Support more sustainable commuting patterns through education, outreach, and incentive programs to promote telework, downsizing office space, and office share models
- **VMT Reduction – 25% reduction by 2050 – Diesel:** An estimated **9.7% (3.12 MMTCO₂e)** of all regional emissions from the 2021 GHGI were attributed to diesel-powered vehicles. Emission reductions related to diesel-powered vehicles require legislation, but local jurisdictions have the authority to implement actions that increase the electric charging infrastructure across the region. These actions focus on those within the MSA's authority to implement and the actions we can support the State of Maryland with.
 - Decarbonize waste-related fleets such as those vehicles used for organics hauling, curbside recycling and trash pick up for residential purposes
 - Support state/local public transit bus electrification
 - Freight planning to shift from road to rail

- Planning, coordinating and maintain electric charging corridors for mid and heavy-duty vehicles

MEASURE 2: ELECTRIFYING CARS AND TRUCKS

17% ELECTRIC VEHICLE ADOPTION BY 2030, 99% IN 2050

27.5% HEAVY DUTY VEHICLE ADOPTION, 99% IN 2050

- Advanced Clean Cars II and Clean Trucks:
 - Support the installation of EV charging infrastructure on government property for county fleets and/or for the public through cost-share and technical assistance
 - Support the installation of public EV charging infrastructure in partnership with local businesses through cost-share and technical assistance
 - Pilot new EV charging technologies

MEASURE 3: REDUCE BUILDINGS & ENERGY RELATED EMISSIONS BY AN AVERAGE OF

48% IN 2030 AND BY AN AVERAGE OF

82% BY 2050

Combined, residential, commercial and industrial energy make up 44.1% of all estimated emissions across the region in 2021.

- Residential Energy: A total of **20.9% (6.7 MM TCO₂e)** of the Baltimore MSA's emissions are from residential energy sources. Within residential energy emissions - **60% (4 MM TCO₂e)** is from electricity production and, **30% (2 MM TCO₂e)** from natural gas and the remaining **9% (0.7 MM TCO₂e)** is due to combination of fuel sources such as wood, propane and kerosene. Reducing emissions among residential energy sources or buildings, will focus on strategies to electrify, decarbonize and enhance energy efficiency among single family homes, multi dwelling units or other public housing sites. This could include:
 - Programs to educate residents and contractors about energy saving and fuel switching technologies, their benefits, and available rebates and incentives.
 - Workforce development for HVAC technicians, electricians, salesforce, and energy auditors to expand knowledge of electrification and to develop an electrification audit program
 - Programs to help low-income oil and propane users shoulder the burden of electrification after rebates
 - Pilot program funding at least two district geothermal projects as proof of principle
 - Education, outreach, and technical and financial assistance programs to promote onsite solar, community solar, and purchases of 100% renewable energy from third party suppliers
 - Community solar projects from solar canopies installed over parking on county government property, providing discounts on electricity for low-income residents.
- Commercial Energy: A total of **19.7% (6.4 MM TCO₂e)** of emissions for the region are due to commercial energy uses. Within commercial emissions - **64% (4.1 MM TCO₂e)** are due to electricity, **25% (1.6 MM TCO₂e)** due to burning natural gas and the remaining roughly **10% (0.6 MM TCO₂e)** are from a combination of propane, kerosene and other commercial fuels. Measures to reduce emissions from commercial energy could include initiatives such as:

- Education, outreach, and partnership programs to increase business participation in energy efficiency and fuel switching incentives and promote tools such as C-PACE
- Technical and financial assistance programs to promote onsite solar and purchases of 100% renewable energy from third party suppliers
- Fund for green procurement consultants for businesses
- Pilot programs to demonstrate electrification projects, especially in underserved communities and for small businesses, including outreach and education for residents and other businesses
- Energy efficiency, fuel switching, and solar projects on county-owned property

**MEASURE 4: REDUCE MUNICIPAL SOLID WASTE EMISSIONS BY
65% IN 2030 AND
90% BY 2050**

- Waste diversion: Reducing solid waste related emissions entails a combination of strategies that prevent, divert or support the reuse of potential waste sources. A total of **3.21% (1.04 MM TCO₂e)** of the regional emissions are due to waste and wastewater. This number does not reflect 1) emissions related to hauling waste, 2) global warming potential from organic waste that releases methane, 3) embodied carbon from materials entering municipal waste streams, 4) the immense cost municipal solid waste operations have on local governments or 5) the value of materials lost to the local economy when items are disposed of. The following activities address the aforementioned waste streams, and provide residents in the region access to organic waste diversion options:
 - Residential-level food scrap diversion through
 - i. Establishing and expanding curbside pick-up programs for organic material, including food waste
 - ii. Launching farmer's market-based food scrap drop-off programs
 - iii. Food scrap drop-off programs located at accessible community facilities
 - Climate Art for Communities made with upcycled waste materials
 - Fixit and repair clinics to reduce, divert and prevent e-waste and waste from household goods
 - Provide Household Reuse Packages as An Incentive to Recycle Right (including reusable bags, food containers, utensils, water bottles, and reusable straws for up to 4 people)
 - Establishing wood reutilization centers based on the success of Baltimore City's Camp Small initiative
 - Expand food waste diversion infrastructure in the form of a mid-to large sized compost facility
 - Support end-use markets for soil amendment or other compost products resulting from food waste diversion
 - Protect and relocate local waste collection stations as necessary to prevent flooding impacts and improve current and future access to waste collection stations.
 - Improve local government procurement to align with climate and sustainability goals

MEASURE 5: SEQUESTER 5 MMTCO₂e BY 2030 AND 50 MMTCO₂e BY 2050

- Nature-based solutions and sequestration: The 2021 regional GHGI reflects a carbon sink of roughly **1.45 MMTCO₂e** or **4.5%** of the total CO₂e regionally. This number can be interpreted as a 4.5% carbon sequestration, but was not modeled in the current inventory or projections.

However, it serves as an estimate for the potential CO₂e that can be captured through nature-based solutions.

- Expand tree canopy through planting efforts and by maintaining existing forest
- Protection of public places for water access and passive recreation of natural habitat; watershed protection of forest habitat. (for example, see [Queen Anne's County Sea Level Rise and Coastal Vulnerability Assessment and Implementation Plan, March 2016](#))
- Establish outreach campaign, including demonstration projects, to raise awareness, acceptance, and appreciation of soil health, native plants, reduced mow areas, and meadows
- Protect passive recreation of natural habitat, including watersheds
- Integrate carbon sequestration elements and emphasis into private property stormwater programs and incentives
- Support farmers with incentives and technical assistance in implementing healthy soils practices to sequester carbon
- Use biochar as a soil amendment to enhance carbon sequestration potential
- Integrate other co-benefits of climate mitigation and adaptation into projects regionally to foster polysolutions
- Mitigate the health impacts of extreme heat and the urban heat island effect

MEASURE 6: ENHANCE CLIMATE CAPACITY ACROSS LOCAL GOVERNMENTS BY 50% BY 2030

- Facilitate trainings to enhance climate literacy among local government staff to make climate connections in key roles
- Provide sector-specific professional development trainings for municipal government staff to ensure local governments workforces have the knowledge skills and education to solve complex climate challenges
- Develop a robust training program for local jurisdiction staff and/or leadership in basic climate science and methods to mitigate climate change and adapt to changes to better integrate climate goals and outcomes into many if not all of their projects and work plans.
- Foster climate career pathways for early career professions, with a focus on those from LIDAC, Black, Indigenous, or Other People of Color (BIPOC) or other underrepresented communities in the climate profession
- Hire needed climate staff to increase capacity for local governments

MEASURE 7: ENGAGE 50% OF RESIDENTS IN THE BALTIMORE MSA BY 2030 THROUGH CPRG IMPLEMENTATION

- Allocating CPRG funds in a manner that prioritizes authentic, meaningful engagement to connect LIDAC communities with CPRG investments while working to address environmental injustices in the region.
- Deploy culturally relevant outreach, education and engagement strategies that meet people where they are in their understanding of climate change and its impacts.

Figure 5 below displays remaining emissions and net greenhouse gas emissions reductions per strategy through 2050. This is a modeling of priority actions only, so it does not include actions addressing smaller sectors that would be needed to reach zero emissions, or measures 6 and 7 related to capacity and engagement. In addition, while emissions data for the region is not available back to the state baseline year of 2006, electricity emissions intensity in particular has already declined significantly from 2006 to 2021. Thus the overall 2030 emissions reduction with these actions, if it were measured against

the state's 2006 baseline, would be greater than the reduction from the region's 2021 baseline shown in this chart.

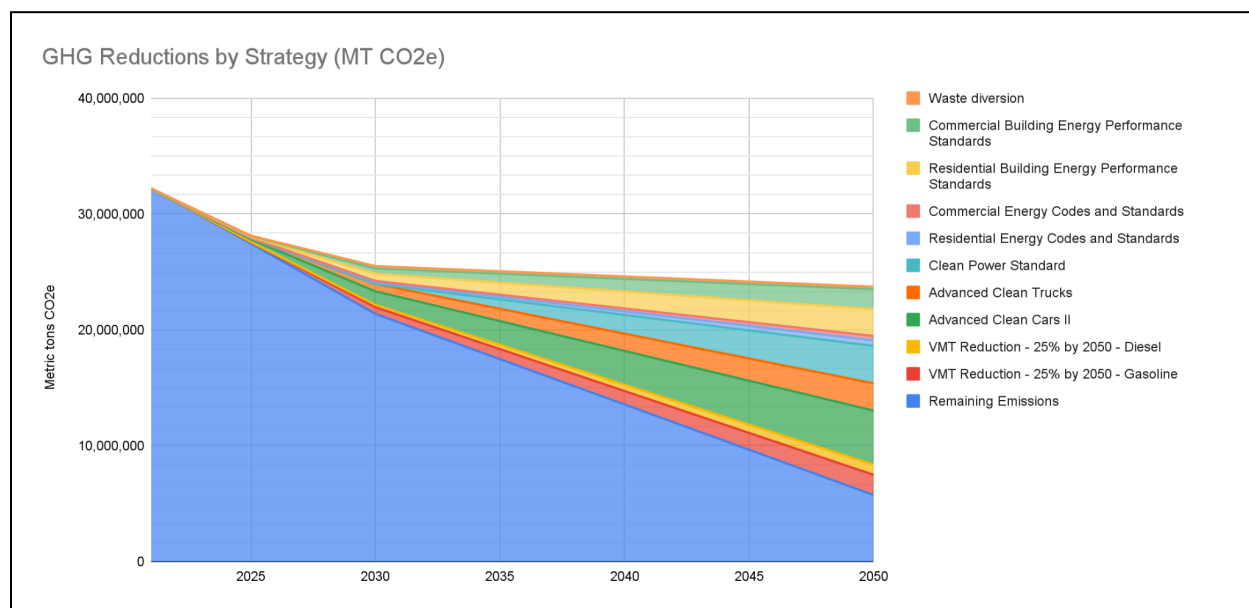


FIGURE 5. GHG Reductions by Strategy

3.5 Low Income Disadvantaged Communities Benefits Analysis

Identifying LIDACs

The Inflation Reduction Act does not formally define LIDACs. However, based upon recommendations from the US EPA, the Steering Committee decided to use the [Climate and Economic Justice Screening Tool](#) and the [Environmental Justice Screening and Mapping Tool](#) to identify LIDACs located within the Baltimore region. These tools identify LIDACs by assessing indicators for categories of burden: air quality, climate change, energy, environmental hazards, health, housing, legacy pollution, transportation, water and wastewater, and workforce development. A list of LIDAC communities by census tract which could have particular benefits from each priority reduction measure was compiled by ICLEI and will be used to target areas for investment in the region's implementation grant proposal. The map in **Figure 6** below displays the LIDAC census tracts in the Baltimore region.

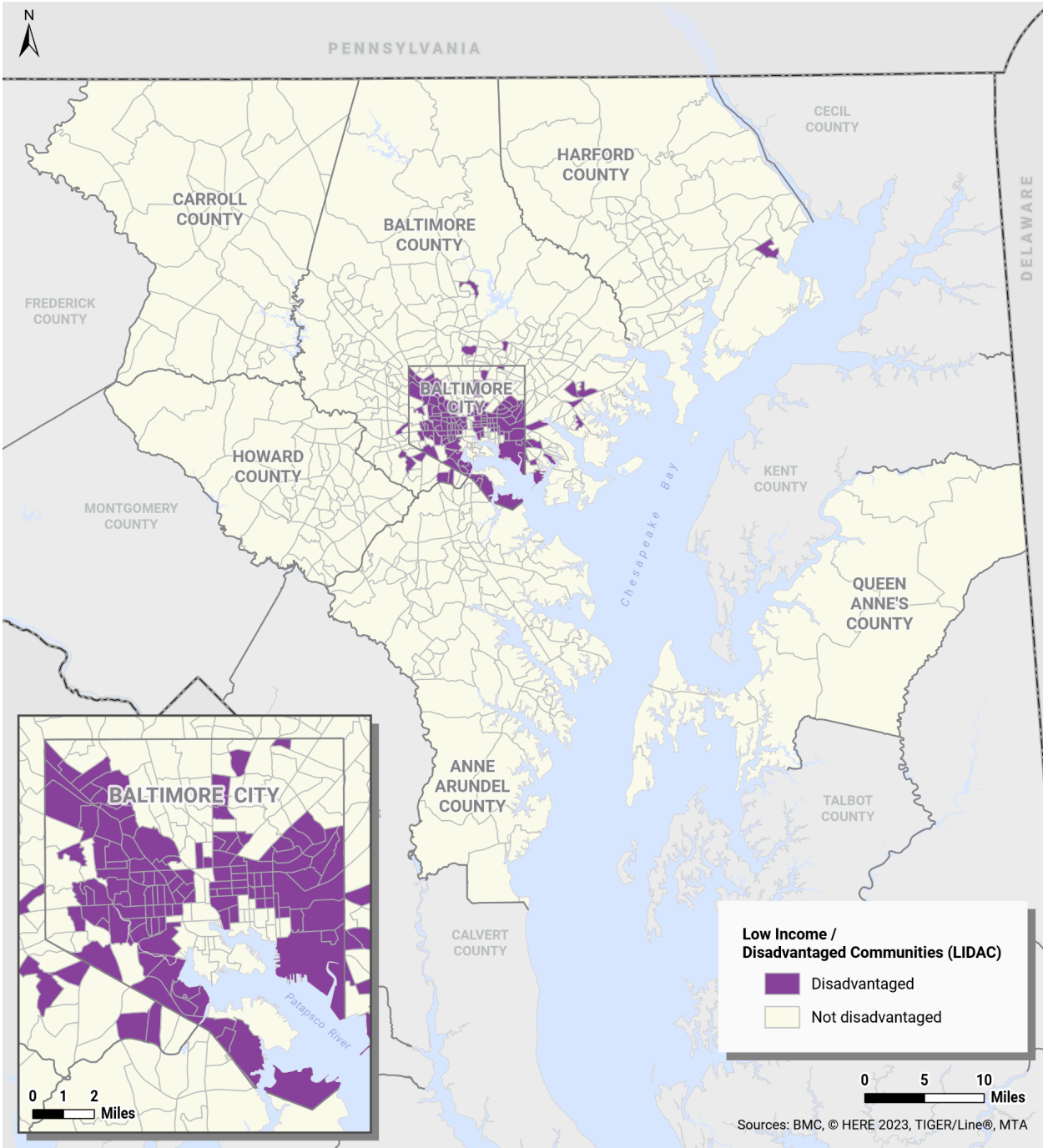


Figure 6. Low Income/Disadvantaged Communities (LIDAC) in the Baltimore Region

Existing Climate Risks, Impacts, and Vulnerabilities among LIDACs - determined from the 2021 State Hazard Mitigation Plan¹⁰

- **Flood**
 - **Coastal hazards:** Includes tropical depression, tropical storm, hurricane, storm surge/tide, coastal flood, and nuisance flood. All of the counties within the MSA fall within the *medium*, *medium-high*, and *high* overall ranking of coastal hazard risk, with the exception of Carroll County, which was ranked at *medium-low* risk. Flooding may lead to safety hazards. Coastal communities are subject to destruction of land and property and potential displacement of populations. Damage to infrastructure could lead to burdened electrical grids and closures of transportation routes. Coastal hazards and major changes to the coastline, including erosion, land loss, and subsidence, will drain state, county, and local resources. The economic costs related to flood mitigation and relocation measures will be high, in addition to the economic burden caused by loss of land.
 - **Severe storms and increased precipitation:** similar vulnerabilities as above, with more emphasis on those that live in floodplain or FEMA flood zones. All of the counties within the MSA fall within the *medium*, *medium-high*, and *high* overall ranking of flooding.
 - **Dam failure:** All of the counties within the MSA fall within the *medium* to *medium-high* ranking of dam failure, with the exception of Queen Anne's County, ranked at *medium-low*. Similarly to flooding coastal hazards, inundation from dam failure could lead to safety hazards and economic burden from destruction of land and property. Flooding or damage to infrastructure could lead to closures of transportation routes or impacts to water supply.

LIDAC communities in the US are disproportionately vulnerable to flooding. In Maryland specifically, 11% of the population within the 100-year floodplain is considered in poverty. LIDAC communities face immediate and long-term human health risks from inundation and may not have access to adequate health care. They may be burdened with higher costs attributed to lack of adequate home or renters insurance coverage, may have a harder time relocating, and may not be able to afford the upfront costs of rebuilding, even with FEMA assistance (many FEMA options only offer reimbursements).

- **Severe Weather-**
 - **Extreme Heat:** Extreme temperatures events paired with high humidity are anticipated to span several days at a time, creating a *medium* to *medium-high*, and *high* risk threat to the counties in the MSA. Heat threatens public health directly, specifically children, elderly, those with preexisting health conditions, and those without access to cooling. These events also add immense burden to the electrical grid, further removing access to cooling. Additionally, low income communities without adequate home insulation or less efficient cooling systems are more vulnerable to increased costs of heating. According to the EPA, urban areas are expected to reach 1-7°F higher than surrounding areas. The highest temperature recorded in Maryland is 109°F.

¹⁰ <https://memm.maryland.gov/community/Pages/Mitigation.aspx>

- **Winter Storms:** Although temperatures are generally warming, winter storms still threaten the state. Extreme cold threatens those without sufficient access to heating. Additionally, low income communities without adequate home insulation or less efficient heating systems are more vulnerable to increased costs of heating
- **Thunderstorms, Tornado/ High Wind:** Damage to infrastructure could lead to burdened electrical grids and closures of transportation routes. Those that primarily work outside are most vulnerable.

LIDAC communities are vulnerable to severe weather. Extreme heat directly threatens communities, especially those without cooling due to costs, infrastructure, or work setting. Heat, storms, and high winds all threaten utilities, specifically the electrical grid, further preventing necessary cooling.

Potential Benefits (qualitative/quantitative) of GHG Emission Reduction Measures to LIDACs

1. **Clean Power Standard - 100% Renewable Energy by 2035**
 - a. *Qualitative impacts:*
 - i. *Local economic improvements- Deployment of renewable energy could translate into local job creation.*
 - ii. *Local economic improvements- Decreased reliance on price volatile energy sources and supply disruptions.*
 - iii. *Public health- Decreased health risks from reduction of fossil fuel combustion.*
 - iv. *Increased local energy resiliency- Decentralized energy supply from renewable energy sources increases the ability to adapt to grid disruptions.*
 - v. *Cost reductions- Decreased energy costs from energy efficiency improvements and more resilient energy sources.*
 - vi. *Reduced risk to climate hazards- Emissions reductions ultimately slows climate change, therefore reducing the risk to climate hazard events induced by climate change.*
2. **Advanced Clean Cars II - 100% of new cars, light-duty trucks, and sport utility vehicles (SUVs) sold in Maryland to be ZEVs by 2035.**
 - a. *Qualitative impacts:*
 - i. *Public health- Reduced exposure to particulate emissions, ozone, and noise leads to a decrease in health risks.*
 - ii. *Local economic improvements- Increased community capacity building and job creation due to additional training and infrastructure for electric vehicles.*
 - iii. *Equity- Expansion of charging stations and public financial support lowers barriers and improves access to EV ownership.*
3. **Advanced Clean Trucks - heavy duty EVs - model based Rocky Mountain Institute data**
 - a. *Qualitative impacts:*
 - i. *Public health- Reduced exposure to diesel particulate emissions, ozone, and noise leads to a decrease in health risks.*
 - ii. *Local economic improvements- EV charging Infrastructure construction will create new or improved local jobs and build capacity through training; new jobs will be created in EV manufacturing and other technology sectors.*

4. **Maryland Transportation Plan** - 20% reduction for all on road vehicles by 2050 (assuming 2050 since this is the 2050 Transportation Plan) (this includes all fuel types included EVs)
 - a. Qualitative impacts:
 - i. *Public health- Reduced vehicle miles traveled results in local reduced exposure to particulate emissions, ozone, and noise.*
 - ii. *Reduced risk to climate hazards - Emissions reductions ultimately slows climate change, therefore reducing the risk to climate hazard events induced by climate change.*
5. **Energy Codes and Standards** - 37% savings for all new buildings and 20% savings for existing Commercial and Residential (5% of homes retrofit each year) (all data is defaults)
 - a. Qualitative impacts:
 - i. *Commercial*
 1. *Local economic improvements- Lowering operational costs for businesses could allow them to direct more funding into their workforce, leading to more employment opportunities.*
 2. *Reduced risk to climate hazards- Commercial and industrial reductions typically are at a larger scale than residential. Emissions reductions ultimately slows climate change, therefore reducing the risk to climate hazard events induced by climate change.*
 - ii. *Residential*
 1. *Cost reductions- Decreased, more stable energy costs can ease the energy burden most LIDAC communities face.*
 2. *Public health- Increases in resilience to cope with temperature extremes by incorporating and/or upgrading heating, ventilation and air conditioning systems (HVAC), installing off the grid solar energy capacity, and upgrading home building envelope (insulation).*
 3. *Public health- Increased housing quality, comfort, and safety from reduced costs, increased efficiencies, and improved indoor air quality.*
 4. *Reduced risk to climate hazards- Emissions reductions ultimately slows climate change, therefore reducing the risk to climate hazard events induced by climate change.*
6. **Building Energy Performance Standards** - 100% of commercial buildings by 2045 fully electrified (The State of Maryland Building Energy Performance target aims for buildings larger than 35,000 sq ft and ends in 2040. Since we do not have sq ft data currently, we extended this to 2045 to account for other commercial buildings). Also will apply this assumption to
 - a. Qualitative impacts:
 - i. *Public health- Electrification of all buildings in a community reduces indoor exposure to fossil fuel combustion, improving indoor air quality.*
 - ii. *Local economic improvements- Deployment of electrification could translate into local job creation targeting low-income and unemployed people and communities.*
7. **Food Residuals Diversion Law** - 2% of food reduced per year (this is an assumption)
 - a. Qualitative impacts:

- i. *Reduced risk to climate hazards- Emissions reductions ultimately slows climate change, therefore reducing the risk to climate hazard events induced by climate change.*

The following documentation specifies which census tracts are most impacted by the aforementioned strategies:

- [BaltimoreMetro_CEJST](#)
- [BaltimoreMetro_CEJST -LIDAC Analysis- Identification Methodology Affected Census Tracts.pdf](#)

*It is important to recognize that all of the census tracts present in the data set fall into the 90th percentile or higher for any given criteria and are disproportionately impacted. For this reason and with recognition that each criteria contains disproportionately impacted community members, nearly every census tract will be impacted by the identified GHG reduction measures. Additionally, the reduction measures will result in community wide emissions reductions and will affect all census tracts indirectly, if not directly.

3.6 Review of Authority to Implement

The jurisdictions in the Baltimore MSA in partnership with the State of Maryland have the authority to implement all measures detailed in this PCAP, though some of that authority is primarily with the state, with local government authority being limited. **Table 11: Authority to Implement** details what authorities are with local governments, in which actions require authorities from the state.

3.7 Workforce Planning Analysis

A previous analysis of workforce readiness for building electrification was performed for local government in the Baltimore region. Additional workforce planning analysis will be completed ahead of the comprehensive climate action plan in 2025.

Through a previous analysis, it was assessed that the existing building workforce currently is not prepared to accommodate the anticipated steep acceleration of building electrification in Maryland. Building electrification is a comparatively recent strategy in the overall mission to decarbonize energy. As such, existing energy auditors and building contractors are often not qualified to perform electrification audits and planning. During stakeholder engagement, Howard County staff identified this as the main bottleneck in the push toward building electrification.

The existing workforce of building energy auditors has been trained to assess energy efficiency with a focus on weatherization and energy saving strategies, but not to evaluate electrification potential, capacity needs, and the need for service upgrades or workarounds, and to develop adequate strategies that incorporate recent technologies and incentives. Similarly, the existing workforce of HVAC professionals has been trained to install equipment without consideration of broader electrification strategies which households are increasingly being incentivized to pursue, and generally tends to replace equipment with the same type for ease of installation. Contractors who have been in the field for decades and their corresponding salesforce also sometimes have outdated knowledge on technologies and rebates available for switching from fossil fuel combustion equipment to electric alternatives.

Households and businesses wishing to implement electrification upgrades are left to navigate equipment options and an overwhelming array of utility, local, state, and federal incentives. Electric service limitations and the strategies they necessitate are rarely considered by a lay person when seeking equipment upgrades. The ability to perform systematic electrification audits and provide building owners with all relevant information is a crucial qualification for building professionals in light of the current push for building electrification. Past training curricula have not prepared existing professionals for this need.

The greater emphasis expected over the next decade on electrification, energy efficiency improvements, EV charging infrastructure and solar will similarly increase demand for electricians and solar installers.

4 Next Steps

Following the release of this PCAP, the Steering Committee and consultants will begin work on preparation of the Comprehensive Climate Action Plan (CCAP). BMC and Steering Committee members will work with a consultant on the development of the CCAP and public engagement. Emission reduction measures in the CCAP are expected to build upon and potentially expand on the list of priority action measures in this PCAP.

- **MILESTONE 1 - Determine amount of CPRG implementation funding awarded**
 - March 2024: Submit the Priority Climate Action Plan (PCAP) for the Baltimore MSA by March 1
 - April 2024: Baltimore MSA CPRG Steering Committee submit a competitive grant application for the CPRG implementation grant by April 1.
- **MILESTONE 2: Meet deliverables of the CPRG planning grant funds**
 - May 2024: While the CPRG competitive grant proposal is under review, the Baltimore MSA CPRG Steering Committee will meet monthly to proactively prepare for the implementation and continue coordinating progress on the CPRG planning grant led by the Baltimore Metropolitan Council.
 - June 2024: The Baltimore MSA CPRG Steering Committee will begin drafting an outline for the Comprehensive Climate Action Plan (CCAP)
 - July 2024: Determine if the MSA's proposal was funded, partially funded or if other funding sources need to be sought through federal, state, philanthropic or other sources.
 - August 2024: Facilitate planning meetings with the Baltimore MSA coalition partners, subawardees and other stakeholders to coordinate and plan for adjusting funding priorities based on the award notice (if awarded) and funding amount. These planning meetings will also be used to prepare for the expedient execution of necessary administrative processes for subawards, competitive procurement and other administrative needs.
- **MILESTONE 3 - Prepare for regional implementation of CPRG**
 - September 2024: Host regional coordinating meetings for the REDUCE coalition to provide direction, advice, and support to each partner in the facilitation of the CPRG and complete key pre implementation tasks
 - i. Draft language, scopes and parameters for request for proposals as necessary for competitive procurement in alignment with EPA procurements rules

- ii. Engage with targeted communities to raise awareness about the process for CPRG implementation and impacts for their respective communities.
- iii. Revisit and finalize work plan timeline as needed
- October 2024: Depending on when funds are allocated to lead applicants, facilitate the allocation of funds to subawardees, contractors, consultants and program beneficiaries.

The Baltimore MSA Steering committee will determine additional steps needed for effective implementation as the members continue to coordinate for the CPRG implementation grant.

APPENDICES

APPENDIX A: Regional Greenhouse Gas Inventory and Reduction Projections

TABLE 2: Regional Greenhouse Gas Inventory					
Sector/Activity	Fuel or Source	2021 Usage/Activity	Units	2021 Emissions (MT CO ₂ e)	Percent of Total
Residential Energy	Electricity	13,131,506,026	kWh	4,026,759	12.51%
	Wood	1,926,115	MMBtu	18,764	0.06%
	Distillate Fuel Oil No. 2	6,623,955	MMBtu	493,177	1.53%
	Propane	3,194,532	MMBtu	198,249	0.62%
	Kerosene	93,957	MMBtu	7,113	0.02%
	Natural Gas	37,488,768	MMBtu	1,993,776	6.19%
	Residential Energy Total			6,737,838	20.93%
Commercial Energy	Electricity	13,333,284,169	kWh	4,088,634	12.70%
	Distillate Fuel Oil No. 2	3,549,084	MMBtu	264,242	0.82%
	Propane	5,978,384	MMBtu	371,012	1.15%
	Natural Gas	30,533,424	MMBtu	1,623,868	5.04%
	Kerosene	48,618	MMBtu	3,681	0.01%
	Other Commercial Fuels	-	-	4,940	0.02%
	Commercial Energy Total			6,356,377	19.74%
Industrial Energy	Electricity	1,862,600,409	kWh	571,164	1.77%
	Natural Gas	26,745,309	MMBtu	469,167	1.46%
	LPG	16,587	MMBtu	1,023	0.00%
	Distillate Fuel Oil No. 2	296,934	Gallons	17,772	0.06%
	Other Industrial Fuels	-	-	81,025	0.25%
	Industrial Energy Total			1,140,151	3.54%
On Road Transportation	Gasoline	24,002,996,939	Vehicle Miles Traveled (VMT)	10,455,598	32.47%
	Diesel	2,197,349,539	Vehicle Miles Traveled (VMT)	3,123,678	9.70%
	CNG	23,351,041	Vehicle Miles Traveled (VMT)	2,364	0.01%
	Ethanol	42,270,949	Vehicle Miles Traveled (VMT)	3,649	0.01%

	Electricity	164,673,988	Vehicle Miles Traveled (VMT)	81,049	0.25%
Rail Transportation	Diesel	651,438	MMBTU	48,603	0.15%
Waterborne Transportation	Gasoline	538,605	MMBTU	38,781	0.12%
	Diesel	141,989	MMBTU	10,508	0.03%
Off Road Transportation & Mobile Sources	Gasoline	4,601,077	MMBTU	330,478	1.03%
	Diesel	6,125,066	MMBTU	453,254	1.41%
	CNG	164,348	MMBTU	10,364	0.03%
	LPG	1,504,860	MMBTU	92,677	0.29%
	Transportation & Mobile Sources Total			14,651,004	45.50%
Solid Waste	Waste Generation	1,172,453	Tons	484,613	1.51%
	Landfill Gas Flaring	446,259	MMBTU	5,494	0.02%
	Solid Waste Incineration	6,619,110	MMBTU	229,478	0.71%
	Closed Landfills	-	-	99,087	0.31%
	Solid Waste Total (does not include Closed Landfills)			719,585	2.23%
Water and Wastewater	Wastewater Treatment	-	-	325,157	1.01%
	Water and Wastewater Total			325,157	1.01%
Process & Fugitive Emissions	Fugitive Emissions from Natural Gas Distribution	85,056,325	MMBTU	157,051	0.49%
	Oil and Gas Production and Processing	-	-	3,290	0.01%
	Industrial Process & Product Use	-	-	1,876,474	5.83%
	Process & Fugitive Emissions Total			2,036,816	6.33%
Agriculture, Forestry, and other Land Uses (AFOLU)	Livestock	-	-	149,135	0.46%
	Crops	-	-	82,009	0.25%
	Land/Forestry	-	-	-1,452,350	-
	AFOLU Total (does not include Land/Forestry)			231,144	0.72%
Total 2021 Regional Emissions				32,198,072	

	TABLE 3: BAU Emissions, Net Reductions per Action, & Remaining Emissions after Implementation (MT CO2e)		
	2025	2030	2050
Business As Usual Emissions	28,128,384	25,503,512	23,719,593
Action	Net Reductions		
VMT Reduction - 25% by 2050 - Gasoline	105,691	579,093	1,745,018
VMT Reduction - 25% by 2050 - Diesel	33,955	203,733	882,845
Advanced Clean Cars II	199,881	1,170,684	4,662,100
Advanced Clean Trucks	93,525	635,066	2,354,686
Clean Power Standard	0	0	3,228,167
Residential Energy Codes and Standards	23,749	142,494	474,983
Commercial Energy Codes and Standards	19,141	114,849	382,828
Residential Building Energy Performance Standards	92,472	618,272	2,308,824
Commercial Building Energy Performance Standards	65,683	450,911	1,725,072
Waste diversion	35,705	214,229	214,228
Remaining Emissions after Implementation	27,458,582	21,374,181	5,740,842
Percent Change (%) from 2021 Baseline	-14.72%	-33.62%	-82.17%

	TABLE 4: GHG Reduction Projections (MT CO ₂ e) and Percent Change from Baseline			
	2021 Baseline	2025	2030	2050
Industrial Energy	1,140,151	805,315 (-29.37%)	631,097 (-44.65%)	469,160 (-58.85%)
Residential Energy	6,737,838	4,886,770 (-27.47%)	3,391,856 (-49.66%)	333,476 (-95.05%)
Commercial Energy	6,356,375	4,594,802 (-27.71%)	3,232,077 (-49.15%)	477,562 (-92.49%)
Transportation & Mobile Sources	14,651,004	13,854,053 (-5.44%)	10,953,762 (-25.24%)	1,205,312 (-91.77%)
Water & Wastewater	325,157	336,154 (3.38%)	343,262 (5.57%)	367,597 (13.05%)
AFOLU	231,144	231,144 (0%)	231,144 (0.00%)	231,144 (0.00%)
Process & Fugitive Emissions	2,036,816	2042127 (0.26%)	2,045,560 (0.43%)	2,057,314 (1.01%)
Solid Waste	719,585	708217 (-1.58%)	545,423 (-24.20%)	599,277 (-16.72%)

APPENDIX B: Charts and Tables for Methodologies

TABLE 5: Transportation & Mobile Sources			
Activity/Source	Data Source	Methodology	Data Gaps/Assumptions
On-Road	Baltimore Metropolitan Council/Maryland Department of Transportation	After BMC provided MOVES, we aggregated data by county, fuel/vehicle type.	Data is for 2022, which is the most recent year. Original dataset provided specific vehicle classifications, which were aggregated into Motorcycle, Passenger, Light-Duty, and Heavy Duty
On-Road Transit	Baltimore Metropolitan Council/Maryland Department of Transportation	n/a	Included in on-road activity
Rail	EPA's 2020 National Emissions Inventory	Extracted county data by GHG type, estimated MMBtu using MT CO ₂ /MMBTU emissions factor	Because NEI does not provide activity data, we estimated MMBtu using the MT CO ₂ /MMBTU emissions factor
Aviation	Not Included in PCAP		
Waterborne	EPA's 2020 National Emissions Inventory	Extracted county data by GHG type, estimated MMBtu using MT CO ₂ /MMBTU emissions factor	Because NEI does not provide activity data, we estimated MMBtu using the MT CO ₂ /MMBTU emissions factor
Off-Road/ Mobile	EPA's 2020 National Emissions Inventory	Extracted county data by GHG type, estimated MMBtu using MT CO ₂ /MMBTU emissions factor	Because NEI does not provide activity data, we estimated MMBtu using the MT CO ₂ /MMBTU emissions factor
Emissions factors	EIA's Annual Energy Review, Bureau of Transportation Statistics Average Fuel Efficiencies, and EPA's Emission Factors for Greenhouse Gas Inventories	n/a	n/a

TABLE 6: Grid Electricity			
Activity/Source	Data Source	Methodology	Data Gaps/Assumptions
Residential Electricity	Energy Information Administration State Energy Summaries	Extracted state electricity consumption data and downscaled using a ratio of county households out-of-state households	Since utility data was unavailable, this alternative was considered most applicable. This approach assumes every house uses grid electricity.
Commercial Electricity	Energy Information Administration State Energy Summaries	Extracted state electricity consumption data and downscaled using a ratio of county commercial jobs : out-of-state commercial jobs	Since utility and state commercial data was unavailable, this alternative was considered most applicable.
Industrial Electricity	Energy Information Administration State Energy Summaries	Extracted state electricity consumption data and downscaled using a ratio of county industrial jobs : out-of-state industrial jobs	Since utility and state industrial data was unavailable, this alternative was considered most applicable.
Electricity Generation	EPA FLIGHT	Extracted site-specific data per county and directly entered raw metric tons (per GHG)	This data is recorded but emissions are not considered in the GHGI total because electricity generation emissions are assumed to be captured in the residential, commercial, and industrial electricity emissions.
Emissions factors	EPA's eGRID2021	n/a	n/a

TABLE 7: Solid Waste			
Activity/Source	Data Source	Methodology	Data Gaps/Assumptions
Waste Generation (Open Landfills)	Maryland Department of Environment's MD Solid Waste Management and Diversion Report (2022, CY 2021 Data)	Enter site-specific Waste Accepted tonnage.	Waste data was split into Waste accepted, waste disposed, and waste transportation. We choose to use the waste accepted values as this best reflects annual generation. We assumed all landfills use typical landfill gas controls, have "wet" moisture contents, and all waste was generated and landfilled in the boundary.
Closed Landfills	FLIGHT data	Extracted site-specific data per county and directly entered raw metric tons CH ₄	n/a
Landfill Gas Flaring	Maryland Department of Environment's State-wide 2020 GHG Inventory	Extracted site-specific data	Source data is from 2020
Landfill Gas Combustion	Maryland Department of Environment's State-wide 2020 GHG Inventory	Extracted site-specific data	We assumed all energy from LFG combustion was sent to the grid. Source data is from 2020
Waste Characterization	Maryland Department of Environment's MD Solid Waste Management and Diversion Report (2022, CY 2021 Data)	n/a	Statewide waste characterization represents each landfill's waste composition. Because the waste composition categories differed from ClearPath categories, the following assumptions occurred: Paper and paperboard was split evenly into all 4 paper/cardboard categories, Yard trimmings was split evenly into grass, leaves, and branches, and 25% of the construction and demolition waste reported was lumber.
Emissions factors	EPA's Documentation for Greenhouse Gas Emission and Energy Factors Used in the Waste Reduction Model (WARM)	n/a	n/a

TABLE 8: Other Sources			
Activity/Source	Data Source	Methodology	Data Gaps/Assumptions
Residential Stationary Fuel	Energy Information Administration State Energy Summaries	Extracted state stationary fuel consumption data and downscaled using a ratio of county households : out-of-state households	Since utility data was unavailable, this alternative was considered most applicable.
Commercial Stationary Fuel	Energy Information Administration State Energy Summaries	Extracted state stationary fuel consumption data and downscaled using a ratio based on county commercial jobs : out-of-state commercial jobs	Since utility and state commercial square footage data was unavailable, this alternative was considered most applicable.
Industrial Stationary Fuel	EPA FLIGHT	Extracted site-specific data per county and directly entered raw metric tons (per GHG)	Assumed the majority of industrial stationary fuel consumption is captured in EPA FLIGHT.
Fugitive Emissions from Natural Gas Distribution	Energy Information Administration State Energy Summaries & FLIGHT	Enter natural gas consumption (MMBtu) per county	Used defaults from ClearPath Fugitive Emissions From Natural Gas Distribution Calculator
Fugitive Emissions from Oil and Natural Gas Systems	EPA FLIGHT	Extracted site-specific data per county and directly entered raw metric tons (per GHG)	Assumed any emissions from natural gas distribution is captured in "Fugitive Emissions from Natural Gas Distribution"
Industrial Process & Product Use	EPA FLIGHT	Extracted site-specific data per county and directly entered raw metric tons (per GHG)	GHGs are captured internally and entered as CO2 equivalent (CO2e)
Water Treatment Energy	n/a	n/a	Assumed to be captured in the commercial and/or industrial electricity and stationary fuel consumption estimates.
Wastewater Treatment	Maryland Department of Environment's State-wide 2020 GHG Inventory	Downscaled emissions data using population ratios and directly entered emissions	Due to the unavailability of site-specific wastewater treatment operations data, we assumed that wastewater is generated and treated in boundary location. Because MDE's 2020 GHGI provided total CH4 for wastewater treatment, we directly entered these emissions under septic

			activity. Source data is from 2020
Agriculture: Livestock and Crops	U.S. Department of Agriculture's (USDA) 2017 Census of Agriculture, County Data	Extracted livestock headcounts and crop counts and utilized the EPA's State Inventory Tool, Agriculture Module to estimate emissions	Due to the differing categorizations of the EPA's SIT Agriculture Modules and the USDA's 2017 Census of Agriculture county data, the following categories were grouped together/assumptions were made: Milks Cows = Dairy Cows; Cows and heifers that calved = Feedlot Heifers; Cattle/calves = Calves; Beef cows = Beef Cows; Other cattle = Heifer Stockers; Hogs are all assigned to the "Market 120-179 lbs" category, Layers = Layers; Pullets for laying flock replacement = Pullets/ Chickens; Broilers and other meat-type chickens = Broilers; All sheep = Sheep on Feed
Forestry and Land Use	Land Emissions And Removals Navigator (LEARN) Tool	Extracted county-level emissions and removals for forests, changes in forestry, urban trees, etc.	This data is recorded but emissions are not considered in the GHGI total per ICLEI's US Community Protocol (emissions and removals from forestry and land use should not count towards gross emissions) Used Baltimore, MD as the "representative urban area" for emissions factors
Stationary Fuel Emissions Factors	EPA's GHG Emission Factors Hub	n/a	n/a
Fugitive Emissions from Natural Gas Distribution	Environmental Defence Fund's (EDF) User Guide for Natural Gas Leakage Rate Modeling Tool	n/a	n/a
Wastewater Treatment Emissions Factors	IPCC Methods for Greenhouse Gas Inventories	n/a	n/a
Agriculture Emissions factors	EPA's State Inventory Tool Agriculture Module	n/a	n/a
Forestry and Land Use	U.S. Forest Service's Forest Inventory and Analysis (FIA) database	n/a	n/a

Table 9: Projection Growth Rates				
Activity/Source	Type	Data Source	Methodology	Data Gaps/Assumptions
Maryland State Grid Projections to 2050	Electricity Carbon Intensity Rate	2021 baseline data from eGRID2021 and projection data from National Renewable Energy Laboratory's (NREL) Cambium Scenario Viewer	n/a	n/a
Population Growth	Growth Rate (for various activities)	Baltimore Metropolitan Council, Round 10 Cooperative Forecasts	n/a	n/a
Household Growth	Growth Rate (for residential activities)	Baltimore Metropolitan Council, Round 10 Cooperative Forecasts	n/a	n/a
Commercial Employment	Growth Rate (for commercial activities)	S&P Global	n/a	Used non-manufacturing counts for commercial projections
Industrial Employment	Growth Rate (for industrial activities)	S&P Global		Used manufacturing employment counts for industrial projections
CAFE Standards Default On Road Carbon Intensity Factors	On Road (passenger/light duty) Carbon Intensity Rate	Center for Climate and Energy Solutions (C2ES)	Miles per Gallon fleet averages were converted to Gallons per Mile. Values were then utilized to calculate a Compound Annual Growth Rate from 2010 to 2040. Values were carried forward to 2050.	Although CAFE standards apply to medium/heavy-duty trucks, the provided Carbon Intensity Factors are based on passenger cars and light-duty trucks because limited analysis of the fleetwide impact has been performed. The test procedure for CAFE standards is different from that used for MPG of vehicles in actual driving conditions.
No Growth	n/a	n/a	n/a	n/a

TABLE 10: GHG Reduction Strategies			
Strategy	Data Used	Data Gaps/Assumptions	Data Source
VMT Reduction - 25% by 2030 - Gasoline	25% in 2050	State plan aims for a 20% reduction, the region increased this by 5%	Maryland Department of Environment's Maryland's Climate Pollution Reduction Plan
VMT Reduction - 25% by 2030 - Diesel	25% in 2050	State plan aims for a 20% reduction, the region increased this by 5%	Maryland Department of Environment's Maryland's Climate Pollution Reduction Plan
Advanced Clean Cars II	-Modeling of vehicle turnover -17% EV in 2030, 99% in 2050	6.2% of fleet turns over per year (16.2 years for full turnover)	DOE Alternative Fuels Data Center, Statista, California Air Resources Board
Advanced Clean Trucks	Heavy Duty Vehicles -27.5% EV in 2030, 99.6% in 2050	12.5% of fleet turns over per year (8 years for full turnover).	DOE Alternative Fuels Data Center, Statista, Rocky Mountain Institute (RMI)
Clean Power Standard	100% Renewable Energy by 2035		Maryland Department of Environment's Maryland's Climate Pollution Reduction Plan
Residential Energy Codes and Standards	-37% efficiency improvement for all new buildings -5% of homes and commercial space retrofit each year. -20% savings from retrofit	5% of building stock per year: Typical heating/cooling equipment life is around 15-20 years, and 20 years translates to 1/20, or 5%, each year. It can make sense to do an efficiency upgrade at the same time as equipment replacement - the efficiency may allow for a smaller, less expensive AC unit or furnace. -ACEE reported 10% typical energy savings for a 'light' retrofit and 29% for a 'medium' retrofit - so 20% falls in the middle between those. -Default Energy savings in new buildings was 37%, 37% improvement for new buildings comes from	Pacific Northwest National Laboratory (PNNL), U.S. Energy Information Administration

		comparing estimated EUI (energy use intensity) for 2018 commercial model energy code with average EUI of existing commercial buildings from 2012 commercial buildings energy consumption survey.	
Commercial Energy Codes and Standards	<ul style="list-style-type: none"> -37% efficiency improvement for all new buildings -5% of homes and commercial space retrofit each year. -20% savings from retrofit 	<p>5% of building stock per year: Typical heating/cooling equipment life is around 15-20 years, and 20 years translates to 1/20, or 5%, each year. It can make sense to do an efficiency upgrade at the same time as equipment replacement - the efficiency may allow for a smaller, less expensive AC unit or furnace.</p> <p>-ACEEE reported 10% typical energy savings for a 'light' retrofit and 29% for a 'medium' retrofit - so 20% falls in the middle between those.</p> <p>-Default Energy savings in new buildings was 37%, 37% improvement for new buildings comes from comparing estimated EUI (energy use intensity) for 2018 commercial model energy code with average EUI of existing commercial buildings from 2012 commercial buildings energy consumption survey.</p>	Pacific Northwest National Laboratory (PNNL), U.S. Energy Information Administration
Residential Building Decarbonization	<ul style="list-style-type: none"> -5% of buildings electrified per year (100% by 2044) -Heat pump coefficient of performance 3.19 for 	<ul style="list-style-type: none"> -Default value of existing housing units with natural gas electrified per year is 5%, 5% of building stock 	EnergyStar, Schroders (Peiser, R., & Wiegelmann, T.. "Real Estate and Sustainability: The Moral

	Baltimore from RMI	per year: Typical heating/cooling equipment life is around 15-20 years, and 20 years translates to 1/20, or 5%, each year.	Imperative." Property Chronicle.) Rocky Mountain Institute
Commercial Building Energy Performance Standards	-5% of buildings electrified per year (100% by 2044) -Heat pump coefficient of performance 3.19 for Baltimore from RMI	5% of building stock per year: Typical heating/cooling equipment life is around 15-20 years, and 20 years translates to 1/20, or 5%, each year.	EnergyStar, Schroders (Peiser, R., & Wiegelmann, T.. "Real Estate and Sustainability: The Moral Imperative." Property Chronicle.) Rocky Mountain Institute
Waste Diversion	-Current waste diversion of 49.2% (in 2017). Diversion increases to 65% in 2030 and stays at 65% through 2050.	Since 50% waste goes to landfill/incinerator in the baseline, increasing to 65% total diversion will reduce the waste tonnage to landfill/incinerator by 30%.	Maryland Department of Environment

TABLE 11: Authority to Implement			
Category	Measure	Additional Authority to Implement Required?	Timeline to Acquire Additional Authority
Transportation	VMT Reduction - 25% by 2050	Yes, local governments have the authority to advance the implementation of Maryland's Transportation Plan that aims to reach a 20% reduction.	Any aspects local government cannot currently implement, we will collaborate with the State of Maryland to achieve those goals.
Transportation	Advanced Clean Cars II	Yes, local governments have the authority to implement actions related to supporting the adoption of electric vehicles. State government has the ultimate authority to implement this action. The Advanced Clean Cars II law in Maryland requires manufacturers to continuously increase the share of vehicles they sell that are electric - reaching 100% of passenger car and light truck sales in model year 2035.	N/A Any aspects local government cannot currently implement, we will collaborate with the State of Maryland to achieve those goals.
Transportation	Advanced Clean Trucks	Yes, local governments have the authority to implement actions related to supporting the adoption of electric and/or zero emission trucks for municipal operations. State government has the ultimate authority to implement this action.	N/A Any aspects local government cannot currently implement, we will collaborate with the State of Maryland to achieve those goals.
Grid Electricity	Clean Power Standard - 100% Renewable Energy by 2035	Limited, the authority to implement this goal sits with local public utilities and regulatory authorities across the state such as the public service commission. Local governments can only control renewable electricity use for government operations.	Authority will be coordinated with the necessary state partners.
Grid Electricity	Energy Codes and Standards	Yes, local governments have the ability to implement local energy and building codes.	N/A
Grid Electricity	Building Energy Performance Standards	Yes, local governments will work closely with the State's Department of Environment to support the implementation of the CSNA.	N/A
Solid Waste	Food Residuals Diversion Law	Yes, local governments will work closely with the State's Department of Environment to support the implementation of HB264. MDE has regulatory authority through this law.	N/A

APPENDIX C: OTHER ATTACHMENTS

APPENDIX C2: DRAFT MEMORANDUM OF AGREEMENT

THIS PAGE IS INTENTIONALLY LEFT BLANK

MEMORANDUM OF AGREEMENT

FOR THE

REDUCE COALITION PROJECT

BETWEEN

THE COALITION PARTNERS OF THE

THE BALTIMORE-COLUMBIA-TOWSON METROPOLITAN STATISTICAL AREA (MSA)

THIS MEMORANDUM OF AGREEMENT (hereinafter “MOA”) is made this ____ day of _____, 2024 (“Effective Date”), by and between the coalition members of the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA), which includes , the Mayor and City Council of Baltimore, a municipal corporation of the State of Maryland, acting by and through its Department of Planning and its Office of Sustainability and its Department of Public Works (the “City”), the Resilience Authority of Annapolis & Anne Arundel County, the Department of Environmental Protection and Sustainability in Baltimore County, Carroll County, Harford County, Howard County Maryland, a body corporate and politic (“Howard County”)and Queen Anne’s County (collectively “the MSA Coalition Partners” or “Parties”).

A. THE MSA COALITION PARTNERS:

LEAD COALITION PARTNER APPLICANT: The Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works

COALITION MEMBERS

- The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works (the “City”);
- The Resilience Authority of Annapolis & Anne Arundel County, representing both the City of Annapolis and Anne Arundel County;
- The Department of Environmental Protection and Sustainability in Baltimore County;
- Carroll County;
- Harford County;
- Howard County; and
- Queen Anne’s County.

B. PURPOSE:

The purpose of this MOA is to memorialize the collaboration of the MSA Coalition Partners and to outline the agreed upon roles, of the MSA Coalition Partners, to include the responsibilities and commitments of each MSA Coalition Partner to the Climate Pollution Reduction Grant (CPRG) competition proposal.

C. **AGREED UPON ROLES, RESPONSIBILITIES AND COMMITMENTS OF EACH MSA COALITION PARTNER:**

Each of the MSA Coalition Partners agree to the following:

I. **THE MAYOR AND CITY COUNCIL OF BALTIMORE BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS:**

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that assist the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

II. **THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY:**

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that assist the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

1. III. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants

2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- A. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in Baltimore County in pursuit of the target emission reduction;
- B. Deploy community-level investments, creating synergies and alignment to the County's enterprise strategic plan goals and master plan goals, that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior change;
- C. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition competitive CPRG proposal. This will focus on preventing, diverting and recycling, reusing and repurposing would-be waste materials into the local economy; and
- D. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction model.

IV. CARROLL COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants

2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
- b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
- c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
- d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
- e. Advance a workforce primed to tackle complex climate challenges.

V. HARFORD COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants.
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

VI. HOWARD COUNTY:

1. Supporting, subject to appropriation and to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

VII. QUEEN ANNE'S COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
- b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
- c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
- d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
- e. Advance a workforce primed to tackle complex climate challenges.

D. OPERATING MODEL FOR THE MSA COALITION PARTNERS:

REDUCE Coalition Project Operating Model

The Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works will lead the MSA Coalition Partners on the REDUCE Coalition Project. The MSA Coalition Partners will create a steering committee made up of local representatives chosen within each of the MSA Coalition Partners' jurisdiction, and each local representative will be responsible for directing the work and efforts detailed under the CPRG competition proposal in their respective jurisdictions. Each individual MSA Coalition Partner participating in the REDUCE Coalition Project will have their respective local representatives participate on a bi-weekly REDUCE Coalition in order to coordinate the collective efforts of each MSA Coalition Partner. As the LEAD APPLICANT, the City will be responsible for scheduling routine meetings, drafting meeting agendas and minutes, and other key administrative tasks needed to communicate in an effective, timely, and efficient manner.

E. MSA COALITION PARTNERS WILL BENEFIT THE PROJECT THROUGH THE FOLLOWING COLLABORATION AND PARTNERSHIPS:

The seven (7) jurisdictions in the MSA Coalition Partners will each contribute to the REDUCE Coalition Project's geographic diversity, unique governance structures for addressing climate changes, and provide a combined level of experience spanning several decades. Specifically, the REDUCE Coalition Project model will benefit this project by:

- Leveraging collective impact from each MSA Coalition Partner on a regional scale;
- Un-siloing climate mitigation investments across the region;
- Replicating proven climate pollution reduction activities with proven impact across the region;
- Learning from peers in each local government; and
- Maximizing current and future climate investments.

F. MSA COALITION PARTNERS RESOURCES FOR CONTRIBUTIONS:

Each MSA Coalition Partner will contribute the following to the REDUCE Coalition Project:

- One project manager/lead must be able to dedicate at least 5% FTE to the REDUCE Coalition workplan implementation;

- Data, technical analyses and/or research related to past, current, or future climate pollution reduction or related work;
- Applicable in-kind contributions;
- Training or facilitation support as needed; and
- Other related services.

H. RESPONSIBILITY STATEMENT FROM THE LEAD APPLICANT:

The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works, will take full responsibility for the REDUCE Coalition Project by meeting the specified goals, deliverables and performance measures and will be accountable to the Environmental Protection Agency (EPA) for effectively carrying out the full scope of work outlined in the CPRG competition proposal . The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works will take full responsibility for the proper fiscal management of the CPRG grant, if awarded.

I. RESPONSIBILITY STATEMENT FROM REMAINING MSA COALITION PARTNERS OTHER THAN THE LEAD APPLICANT:

The remaining MSA Coalition Partners , including The Resilience Authority of Annapolis & Anne Arundel County (representing both the City of Annapolis and Anne Arundel County), the Department of Environmental Protection and Sustainability in Baltimore County, Carroll County, Harford County, Howard County and Queen Anne’s County, will take full responsibility for the REDUCE Coalition Project meetings, the specified goals, deliverables and performance measure and will be accountable to the EPA for effectively carrying out the full scope of work outlined in the CPRG competition proposal . The MSA Coalition Partners will comply with the Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works’ parameters for the proper fiscal management of the CPRG grant, if awarded.

J. TERM:

The term of this MOA shall begin upon the date the last Party signs this MOA (the “Effective Date”), and terminate upon the execution and approval by the Board of Estimates of Baltimore City (the “Board”) of a subsequent agreement, unless terminated earlier pursuant to this MOA, and is contingent on the EPA grant being awarded to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners. No work may begin under this MOA until all Parties have signed it.

K. EXPENSES:

Each MSA Coalition Partner shall be responsible for its own expenses up until the date the subsequent agreement for such services is agreed to between the MSA Coalition Partners. Any subsequent agreement for the provision of services is contingent on approval of the Board of Estimates of Baltimore City and the EPA grant being awarded to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners for such services.

L. INDEMNIFICATION:

Each MSA Coalition Partner shall mutually indemnify, defend and hold harmless each other , their respective elected/appointed officials, employees, agents, and volunteers from any and all claims, demands, suits, and actions, including attorneys’ fees and court costs, connected therewith, brought against the other MSA Coalition Partner(s) their respective elected/appointed officials, employees, agents and volunteers, arising as a result of any activities caused by the direct or indirect, willful, or negligent act or omission of any of the other MSA Coalition Partner(s) , its officials, employees, agents, volunteers or contractors arising out of this MOA.

M. LIABILITY:

Subject to any limitations imposed by law, each of the MSA Coalition Partners agree that each of the MSA Coalition Partners shall be responsible for its own actions and omissions, pursuant to the performance of this MOA, and no MSA Coalition Partner(s) shall try to hold the other MSA Coalition Partner(s) liable with respect to any matter not arising from the other MSA Coalition Partner(s)’ actions or omissions.

N. COMPLIANCE WITH LAWS:

Each MSA Coalition Partner shall comply with all federal, state, and local laws applicable to this MOA.

O. TERMINATION:

This MOA shall automatically terminate upon the approval date of the subsequent agreement between the MSA Coalition Partners for the provision of such services. Any of the MSA Coalition Partners may terminate this MOA by giving to the other MSA Coalition Partners written notification thereof at least thirty (30) days prior to termination. This MOA shall be void if the EPA does not award the grant to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners for provision of such services or the Board of Estimates of Baltimore City does not approve of the subsequent agreement for services.

P. NOTICES:

Any notices required or permitted under this MOA shall be in writing and mailed, postage prepaid, to the other MSA Coalition Partners by certified mail, return receipt requested, or hand delivered, with receipt obtained therefore, to the following:

MAYOR AND CITY COUNCIL OF BALTIMORE CITY, BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS	Notice Address: 417 E. FAYETTE STREET, 8TH FLOOR BALTIMORE, MD 21202
--	--

THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL BALTIMORE COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY	Notice Address: HERITAGE COMPLEX 2666 4 HERITAGE TRAINING ROOM RIVA ROAD ANNAPOLIS, MD 21401
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY	Notice Address: 111 W. CHESAPEAKE AVE, STE 305 TOWSON, MD 21204
CARROLL COUNTY	Notice Address: 225 NORTH CENTER STREET WESTMINSTER, MD 21157
HARFORD COUNTY	Notice Address: 220 S. MAIN STREET BEL AIR, MD 21014
HOWARD COUNTY	Notice Address: 9200 BERGER ROAD COLUMBIA, MD 21046
QUEEN ANNE’S COUNTY	Notice Address: QUEEN ANNE'S COUNTY PLANNING AND ZONING 110 VINCIT ST., SUITE 104 CENTREVILLE, MD 21617

Q. AMENDMENTS:

The MSA Coalition Partners may amend this MOA only by written amendment, signed by all MSA Coalition Partners

R. GOVERNING LAW AND VENUE:

This MOA and the rights and obligations of the MSA Coalition Partners hereunder shall be governed by and construed in accordance with the laws of the State of Maryland and Baltimore City. Furthermore, the Parties hereto agree that any suits or actions brought by any party against the other shall be brought in a court of competent jurisdiction in Baltimore City.

S. INVALIDITY OF PARTICULAR PROVISIONS:

If any term or provision of this MOA or the application thereof to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this MOA shall be valid and be enforced to the fullest extent permitted by law.

T. NO WAIVER:

The waiver of any terms of this MOA, or the failure of the Parties to insist on strict compliance or prompt performance of any terms of this MOA, followed by the acceptance of such performance thereafter, shall not constitute or be construed as a waiver or relinquishment of any right by Parties to enforce all terms strictly in the event of a continuous or subsequent default.

U. RELATIONSHIPS BETWEEN PARTIES:

Nothing in this MOA shall be construed to create an employment relationship between the Parties including any staff or contractor that is assigned to perform any work related to this MOA or subsequent definitive agreement.

V. ENTIRE MEMORANDUM OF AGREEMENT:

This MOA constitutes the entire, full and final understanding between the MSA Coalition Partners hereto and none of the MSA Coalition Partners shall be bound by any representation, statement, promise, or agreement not expressly set forth herein.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the MSA Coalition Partners, to whom are officially authorized to sign on behalf of their respective local jurisdiction, hereby evidence their agreement to the above terms and conditions by having executed this MEMORANDUM OF AGREEMENT.

MAYOR AND CITY COUNCIL OF BALTIMORE CITY, BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS	Authorized Signatory	Date of Signature

THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL BALTIMORE COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY	Authorized Signatory	Date of Signature
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY	Authorized Signatory	Date of Signature
CARROLL COUNTY	Authorized Signatory	Date of Signature
HARFORD COUNTY	Authorized Signatory	Date of Signature
HOWARD COUNTY	Authorized Signatory	Date of Signature
QUEEN ANNE’S COUNTY	Authorized Signatory	Date of Signature

APPENDIX C: OTHER ATTACHMENTS

**APPENDIX C3: LIST OF CLIMATE AND ECONOMIC JUSTICE SCREENING TOOL (CEJST)
CENSUS TRACT IDS, BLOCK GROUP IDS AND/OR ZIP CODES**

THIS PAGE IS INTENTIONALLY LEFT BLANK

APPENDIX C: OTHER ATTACHMENTS

Baltimore Region Zip Code Demographics						
County	Zip Code	Total Population	# of Households	Targeted Tier	Range of State Percentile Index	Per capita Income
Anne Arundel County	20711	6,967	2,235	Tier C	9-70	\$47,827
Anne Arundel County	21403	31398	13,303	Tier D	12-62	\$57,861
Anne Arundel County	21090	9854	3,623	Tier B	28-53	\$37,630
Anne Arundel County	20724	18,086	6,974	Tier B	45-85	\$41,970
Anne Arundel County	21037	21,191	7,803	Tier F	12-36	\$59,296
Anne Arundel County	21060	21060	12,076	Tier D	EPA N/A	EPA N/A
Anne Arundel County	21061	55763	22,380	Tier B	54-82	\$36,644
Anne Arundel County	21076	20,900	8,295	Tier C	33-77	\$50,028
Anne Arundel County	21113	30,469	12,705	Tier C	EPA N/A	EPA N/A
Anne Arundel County	21144	36454	12,789	Tied C	33-77	\$45,742
Anne Arundel County	21225	34093	12,538	Tier A	67-96	\$21,228
Baltimore City	21213	29,155	11,220	Tier A	90+	\$23,351
Baltimore City	21217	32,081	14,593	Tier A	90+	\$28,134
Baltimore City	21225	34,093	12,538	Tier A	90+	\$21,228
Baltimore City	21216	28,096	11,415	Tier A	90+	\$23,346
Baltimore City	21215	54,580	21,769	Tier A	80+	\$27,464
Baltimore City	21231	15,339	7,813	Tier A	80+	\$22,822
Baltimore City	21223	20,229	8,438	Tier A	90+	\$22,822
Baltimore City	21205	14,710	5,226	Tier A	95+	\$18,340
Baltimore City	21226	7561	3,347	Tier A	90+	EPA N/A
Baltimore City	21201*	17,405	9,571	Tier A	80-90+	\$38,160
Baltimore City	21202*	22,486	10,684	Tier A	80-90	\$46,800
Baltimore County	21222	59,162	22,210	Tier D	EPA N/A	\$28,646
Baltimore County	21220	41,573	15,884	Tier F	71-92	\$37,054
Baltimore County	21227	33,534	13,611	Tier C	EPA N/A	EPA N/A
Baltimore County	21207	50,833	19,016	Tier B	EPA N/A	\$30,013
Baltimore County	21229	44,117	18,336	Tier C	70-91	\$27,990
Baltimore County	21230	36,660	17,478	Tier C	N/A	N/A
Baltimore County	21204	21,730	8,168	Tier F	22-60	\$59,383
Baltimore County	21286	23,064	9,561	Tier E	34-60	\$48,750
Howard County	20794	17082	4,160	Tier B	56-81	\$41,928
Howard County	21075	33,726	12,305	Tier F	EPA N/A	EPA N/A
Howard County	21043	47625	17,238	Tier F	31-70	\$55,627

APPENDIX C: OTHER ATTACHMENTS

Howard County	21045	40512	15,333	Tier F	27-80	\$49,537
Howard County	21638	768	342	Tier F	2-31	\$76,956
Total Target Population		1,012,356	404,977			

Baltimore Region Zip Codes: Reason for Selecting	
County	Reason for Selecting
Anne Arundel County	This zipcode includes census tract 708004, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 706402 and 706404, which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 750201, which has a EJ Score of 92.96 on the MDE EJScreen
Anne Arundel County	This zipcode includes census tracts 740501, 740502, 740603, and 751500, which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 82 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tract 702500, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 730204, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 730511, 730514, and 750803 which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 75 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tracts 740107, 740601, and 751200 which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 75 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tract 740305, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 740104, 740105, and 740304 which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 750101, 750102, and 750201, which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 90 according to the MDE EJScreen.
Baltimore City	47% of households are low-income, 93% population BIPOC, 88% AA
Baltimore City	52% of households are low-income, 87% population BIPOC, 82% AA
Baltimore City	46% of households are low-income, 65 % BIPOC, 16% NHW, higher (3%) limited-English speaking population 85% Spanish, 12% IE languages, average life expectancy 60 years
Baltimore City	46% of households are low-income, 99 % BIPOC, 95% AA
Baltimore City	41% of households are low-income, 83 % BIPOC, 76% AA
Baltimore City	41% of households are low-income, 83 % BIPOC, 76% AA
Baltimore City	62% of households are low-income, 81 % BIPOC, 71% AA

APPENDIX C: OTHER ATTACHMENTS

Baltimore City	58% of households are low-income, 88 % BIPOC, 15% NHW, higher limited-English speaking population 67% Spanish, 33% API languages, average life expectancy 40 years
Baltimore City	Curtis Bay Community This zipcode includes census tract 730102, which is has a EJ Score of 86.12 on the MDE EJScreen
Baltimore City	50% of households are low-income, 71 % BIPOC, 15% NHW, high supplemental indexes
Baltimore City	41% of households are low-income, 67 % BIPOC, 54% AA, high supplemental indexes, low life expectancy - 47 years
Baltimore County	High percentile of ozone, toxic air releases, superfund proximity, and wastewater discharge
Baltimore County	High percentile of ozone and wastewater discharge
Baltimore County	High percentile of ozone, PM, hazardous waste, toxic air releases and wastewater discharge
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	This tract does not encompass the entire QAC 5th Election District. Of the 11 census tracts in QAC, this is the only area that meets the underserved criteria. Seven of the 11 census tracts in QAC have been identified as overburdened; while 3 census tracts are neither underserved or overburdened. MDE EJ Tool: 4084, 57.62%

Linthicum, MD

Area in square miles: 6.80

 $\frac{1}{4}$

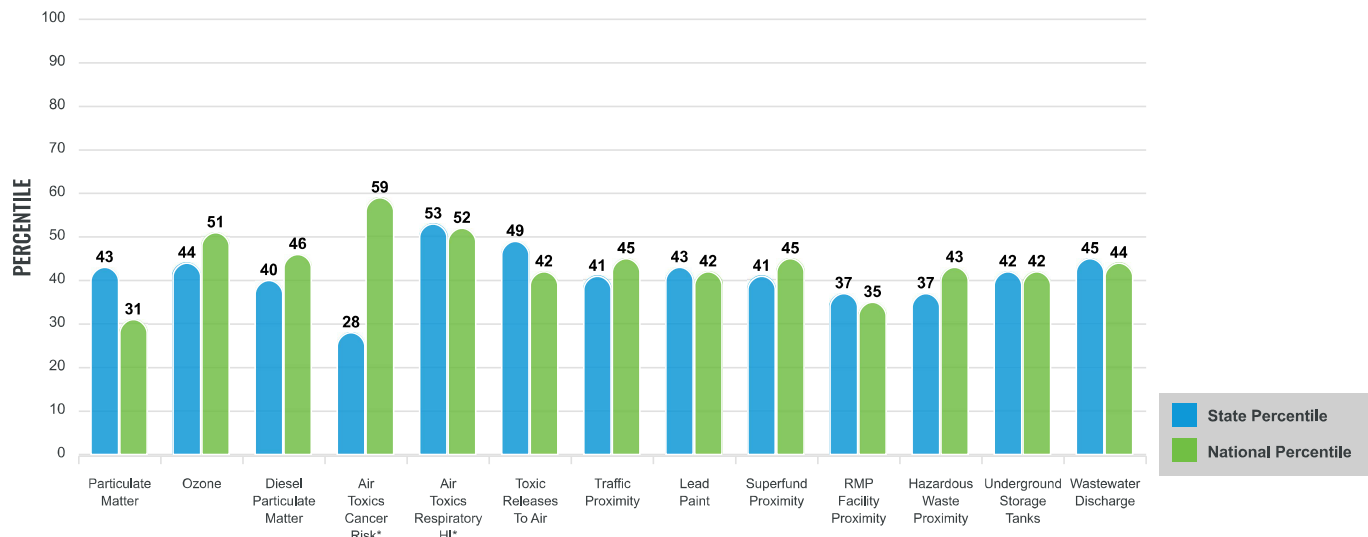
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

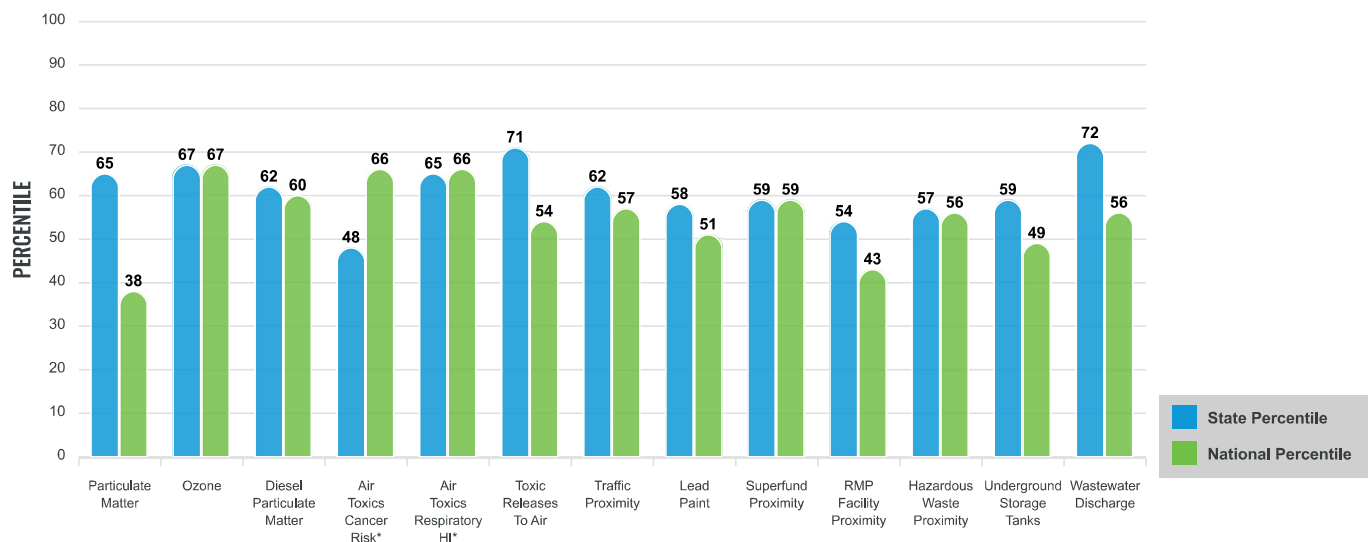
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.13	7.84	78	8.08	48
Ozone (ppb)	70.4	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.374	0.288	76	0.261	80
Air Toxics Cancer Risk* (lifetime risk per million)	34	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,900	430	98	4,600	72
Traffic Proximity (daily traffic count/distance to road)	430	180	88	210	88
Lead Paint (% Pre-1960 Housing)	0.51	0.32	72	0.3	74
Superfund Proximity (site count/km distance)	0.14	0.13	73	0.13	76
RMP Facility Proximity (facility count/km distance)	0.18	0.42	61	0.43	52
Hazardous Waste Proximity (facility count/km distance)	2.2	2.1	68	1.9	75
Underground Storage Tanks (count/km ²)	2.6	1.9	73	3.9	64
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.064	1.2	91	22	80
SOCIOECONOMIC INDICATORS					
Demographic Index	13%	36%	18	35%	16
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	15%	49%	20	39%	31
Low Income	11%	22%	35	31%	20
Unemployment Rate	3%	6%	43	6%	45
Limited English Speaking Households	1%	3%	59	5%	58
Less Than High School Education	7%	10%	50	12%	45
Under Age 5	6%	6%	61	6%	62
Over Age 64	18%	16%	62	17%	59
Low Life Expectancy	20%	19%	60	20%	53

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	23
Air Pollution	37
Brownfields	0
Toxic Release Inventory	4

Other community features within defined area:

Schools	2
Hospitals	0
Places of Worship	7

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	20%	19%	60	20%	53
Heart Disease	6.3	5.3	77	6.1	54
Asthma	8.6	9.9	17	10	13
Cancer	7.6	6.1	84	6.1	82
Persons with Disabilities	11.1%	11.8%	53	13.4%	40

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	46	14%	35
Lack of Health Insurance	2%	6%	21	9%	13
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

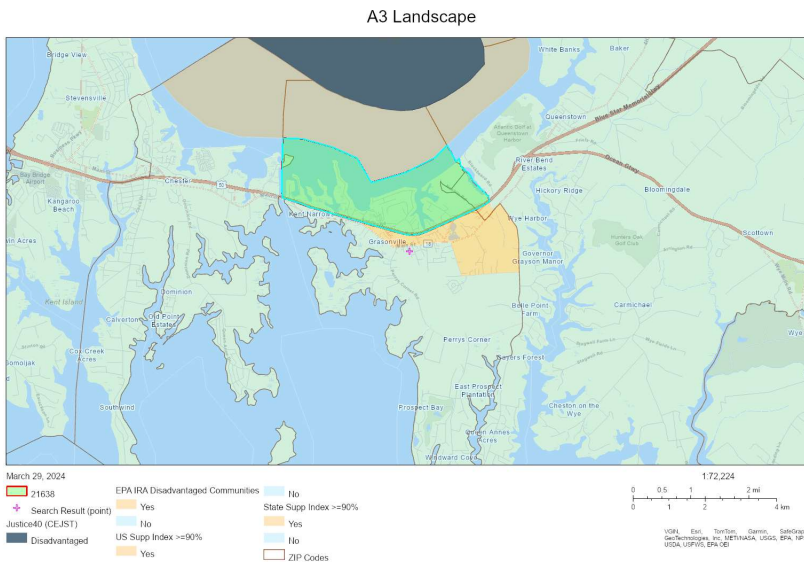
This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Grasonville, MD

the User Specified Area

Population: 768

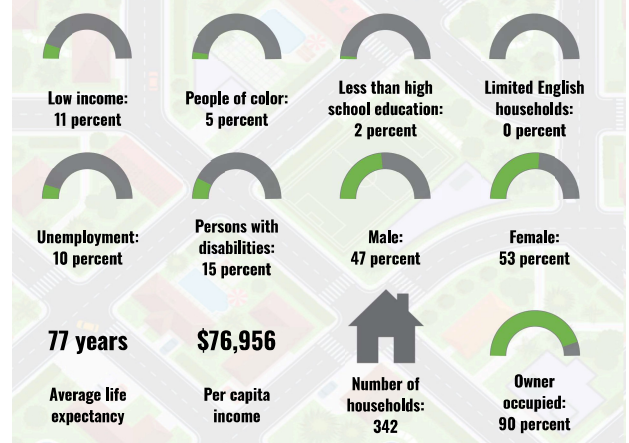
Area in square miles: 3.55



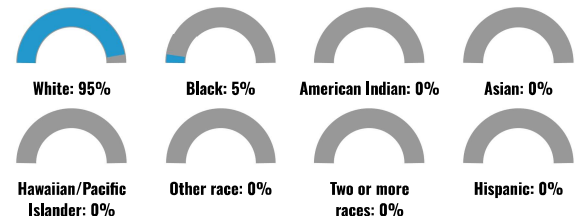
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	2%
French, Haitian, or Cajun	1%
Total Non-English	3%

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

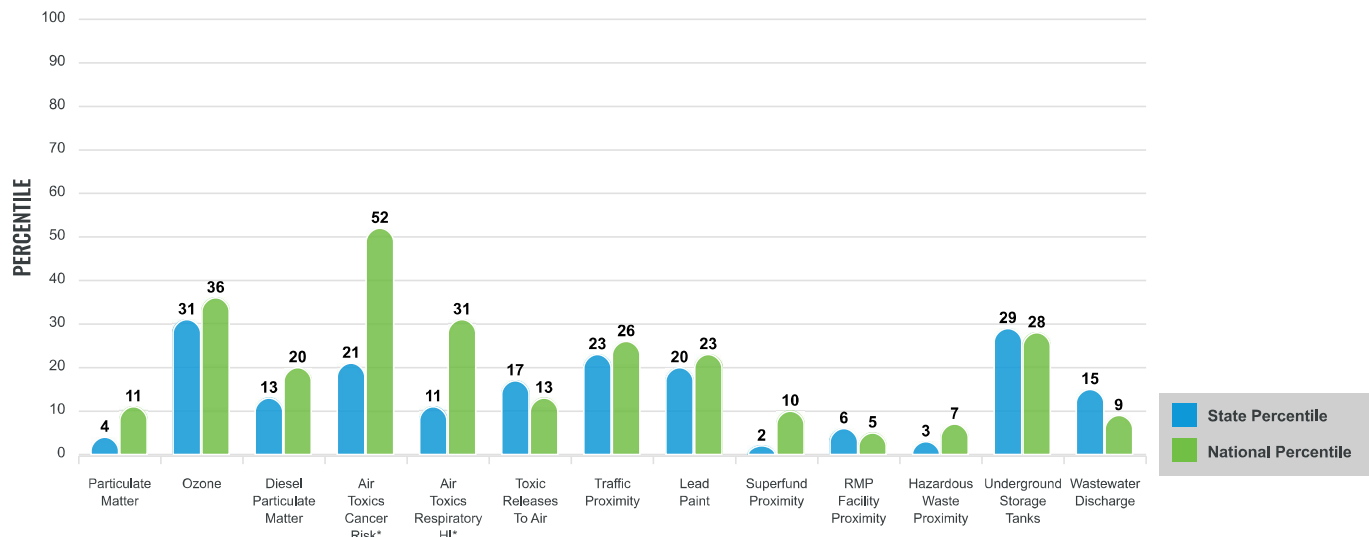
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

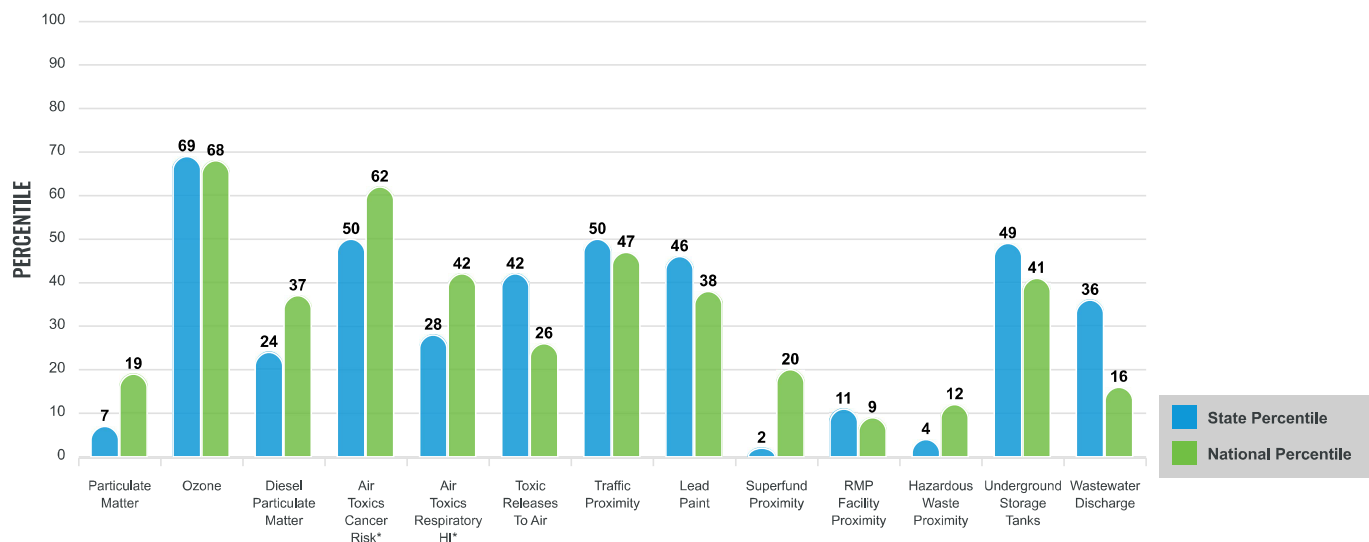
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.04	7.84	7	8.08	21
Ozone (ppb)	70.4	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.188	0.288	20	0.261	42
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.3	0.34	7	0.31	31
Toxic Releases to Air	170	430	42	4,600	30
Traffic Proximity (daily traffic count/distance to road)	110	180	52	210	58
Lead Paint (% Pre-1960 Housing)	0.2	0.32	48	0.3	48
Superfund Proximity (site count/km distance)	0.027	0.13	2	0.13	25
RMP Facility Proximity (facility count/km distance)	0.05	0.42	9	0.43	10
Hazardous Waste Proximity (facility count/km distance)	0.07	2.1	4	1.9	14
Underground Storage Tanks (count/km ²)	0.96	1.9	49	3.9	47
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.4E-05	1.2	40	22	19
SOCIOECONOMIC INDICATORS					
Demographic Index	8%	36%	7	35%	6
Supplemental Demographic Index	9%	12%	39	14%	26
People of Color	5%	49%	6	39%	13
Low Income	11%	22%	32	31%	19
Unemployment Rate	10%	6%	82	6%	80
Limited English Speaking Households	0%	3%	0	5%	0
Less Than High School Education	2%	10%	18	12%	18
Under Age 5	1%	6%	14	6%	16
Over Age 64	45%	16%	98	17%	97
Low Life Expectancy	21%	19%	73	20%	68

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	8
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	0
Hospitals	0
Places of Worship	1

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	21%	19%	73	20%	68
Heart Disease	6.1	5.3	75	6.1	52
Asthma	9.6	9.9	48	10	43
Cancer	6.9	6.1	69	6.1	67
Persons with Disabilities	11%	11.8%	51	13.4%	39

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	55%	7%	99	12%	96
Wildfire Risk	1%	1%	0	14%	79

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	8%	11%	51	14%	40
Lack of Health Insurance	5%	6%	52	9%	33
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

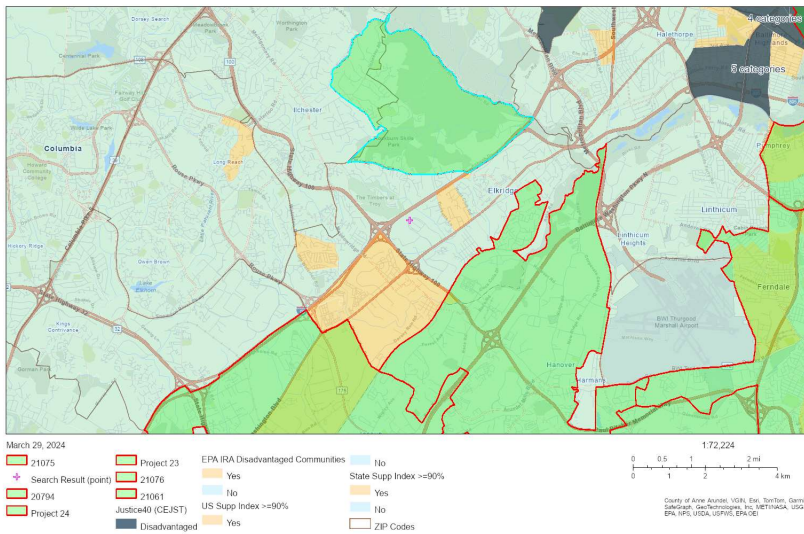
Ilchester, MD

the User Specified Area

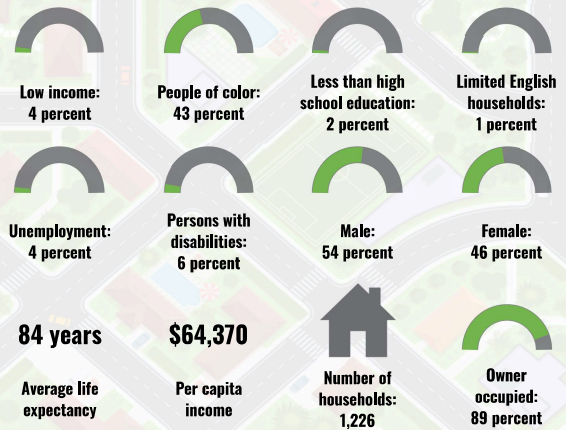
Population: 4,192

Area in square miles: 5.15

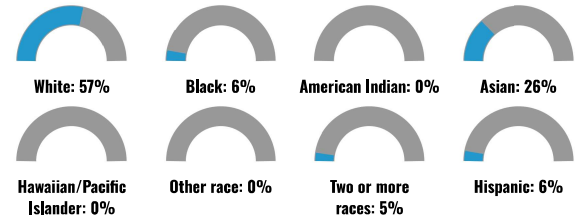
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	84%
Spanish	3%
German or other West Germanic	1%
Other Indo-European	3%
Korean	1%
Chinese (including Mandarin, Cantonese)	1%
Vietnamese	2%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	2%
Other and Unspecified	1%
Total Non-English	16%

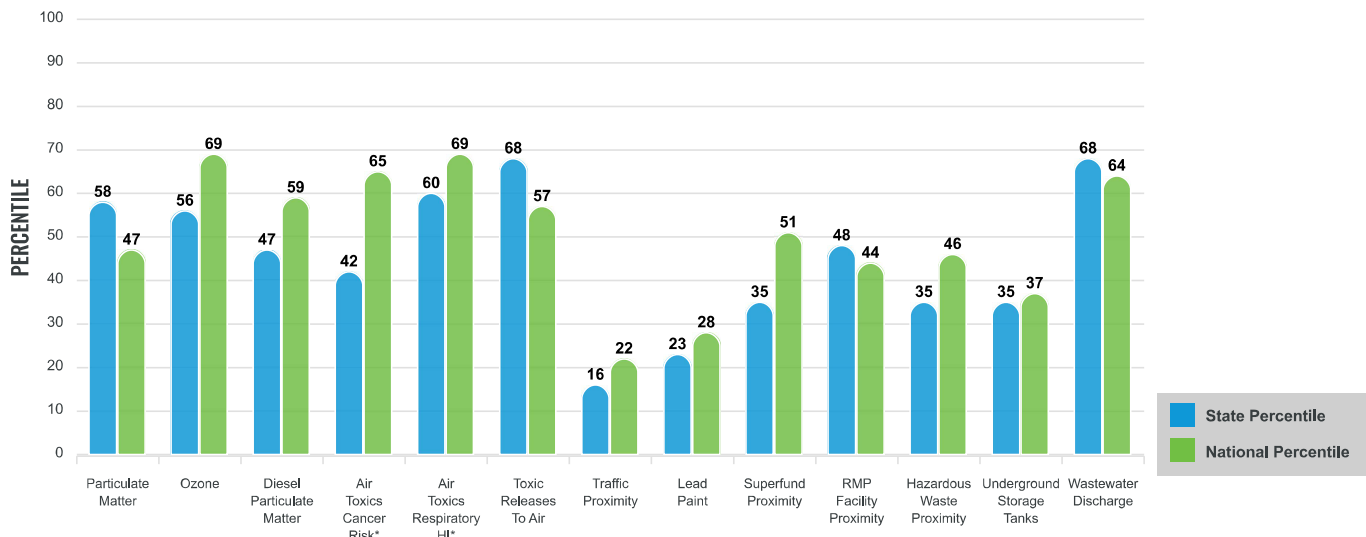
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

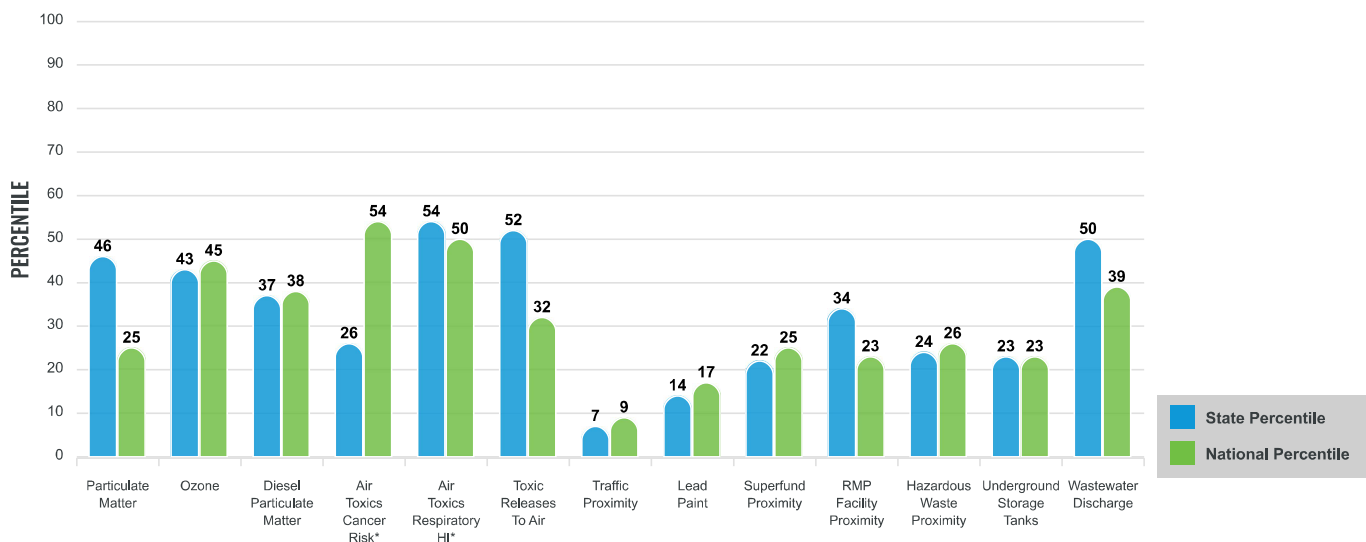
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.08	7.84	69	8.08	46
Ozone (ppb)	68.8	66	70	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.31	0.288	55	0.261	70
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,200	430	93	4,600	62
Traffic Proximity (daily traffic count/distance to road)	9.7	180	9	210	16
Lead Paint (% Pre-1960 Housing)	0.033	0.32	18	0.3	22
Superfund Proximity (site count/km distance)	0.06	0.13	32	0.13	50
RMP Facility Proximity (facility count/km distance)	0.14	0.42	52	0.43	41
Hazardous Waste Proximity (facility count/km distance)	0.41	2.1	33	1.9	46
Underground Storage Tanks (count/km ²)	0.091	1.9	24	3.9	27
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.048	1.2	90	22	78
SOCIOECONOMIC INDICATORS					
Demographic Index	24%	36%	37	35%	40
Supplemental Demographic Index	5%	12%	10	14%	7
People of Color	43%	49%	48	39%	61
Low Income	4%	22%	13	31%	7
Unemployment Rate	4%	6%	52	6%	53
Limited English Speaking Households	1%	3%	60	5%	59
Less Than High School Education	2%	10%	20	12%	19
Under Age 5	5%	6%	51	6%	52
Over Age 64	8%	16%	21	17%	20
Low Life Expectancy	14%	19%	11	20%	9

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	4
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	3
Hospitals	0
Places of Worship	4

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	14%	19%	11	20%	9
Heart Disease	3.4	5.3	9	6.1	6
Asthma	8.2	9.9	12	10	8
Cancer	5.4	6.1	37	6.1	33
Persons with Disabilities	5.2%	11.8%	6	13.4%	5

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	43	12%	30
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	2%	11%	20	14%	14
Lack of Health Insurance	0%	6%	0	9%	0
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area



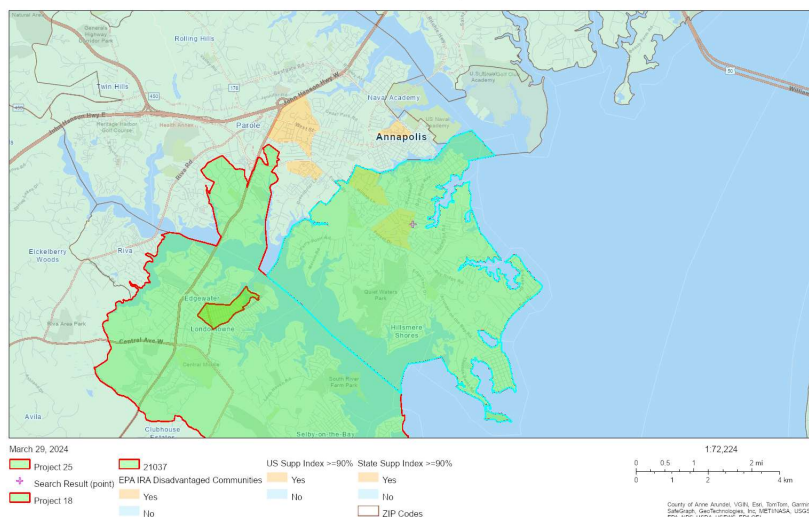
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

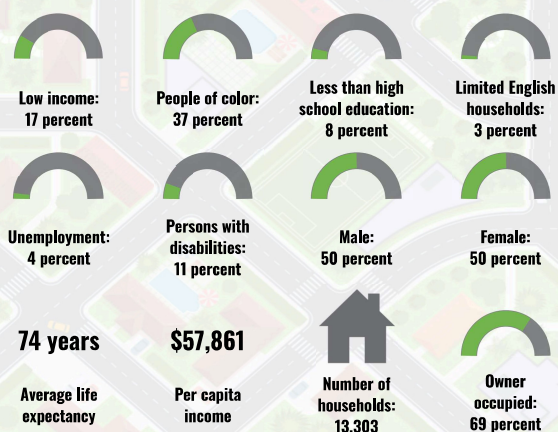
Annapolis Neck, MD

the User Specified Area
Population: 31,398
Area in square miles: 11.59

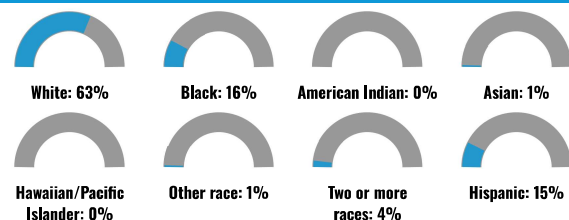
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	86%
Spanish	10%
Russian, Polish, or Other Slavic	1%
Other Indo-European	2%
Total Non-English	14%

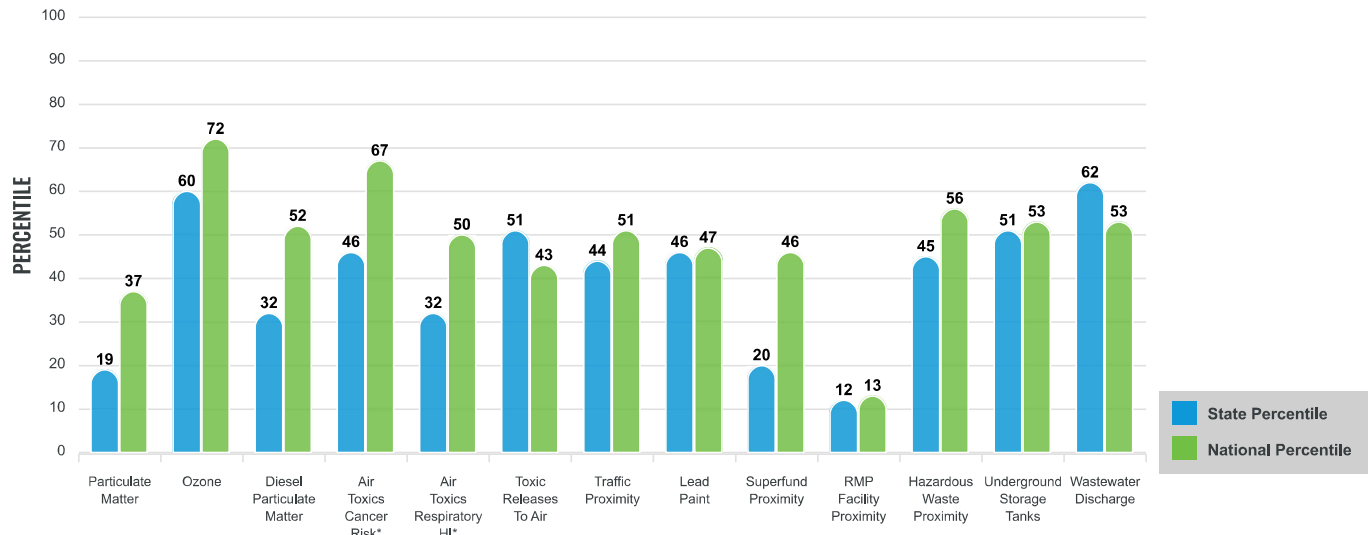
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

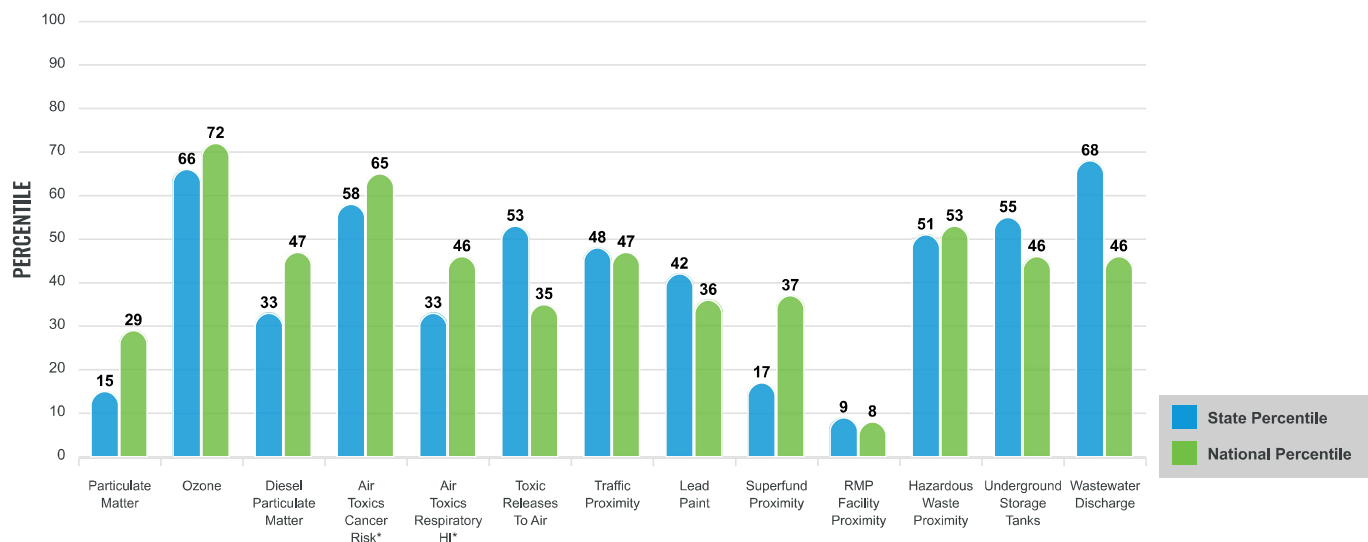
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.39	7.84	12	8.08	29
Ozone (ppb)	68.7	66	69	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.202	0.288	24	0.261	46
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.3	0.34	7	0.31	31
Toxic Releases to Air	260	430	50	4,600	36
Traffic Proximity (daily traffic count/distance to road)	83	180	45	210	52
Lead Paint (% Pre-1960 Housing)	0.17	0.32	43	0.3	44
Superfund Proximity (site count/km distance)	0.041	0.13	12	0.13	37
RMP Facility Proximity (facility count/km distance)	0.044	0.42	6	0.43	8
Hazardous Waste Proximity (facility count/km distance)	0.81	2.1	47	1.9	57
Underground Storage Tanks (count/km ²)	1.8	1.9	63	3.9	57
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0014	1.2	70	22	51
SOCIOECONOMIC INDICATORS					
Demographic Index	27%	36%	43	35%	46
Supplemental Demographic Index	10%	12%	49	14%	35
People of Color	37%	49%	43	39%	56
Low Income	17%	22%	48	31%	31
Unemployment Rate	5%	6%	55	6%	55
Limited English Speaking Households	3%	3%	71	5%	67
Less Than High School Education	8%	10%	55	12%	49
Under Age 5	7%	6%	64	6%	65
Over Age 64	20%	16%	71	17%	68
Low Life Expectancy	17%	19%	30	20%	28

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	58
Air Pollution	24
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	5
Hospitals	0
Places of Worship	16

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	30	20%	28
Heart Disease	5.6	5.3	63	6.1	41
Asthma	9	9.9	29	10	25
Cancer	6.8	6.1	64	6.1	62
Persons with Disabilities	10.1%	11.8%	44	13.4%	33

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	8%	7%	77	12%	59
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	47	14%	36
Lack of Health Insurance	8%	6%	76	9%	56
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

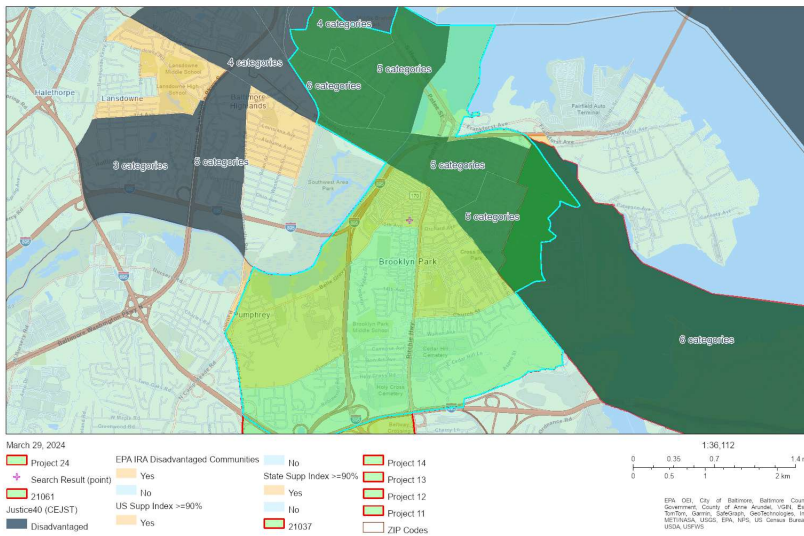
Brooklyn Park, MD

the User Specified Area

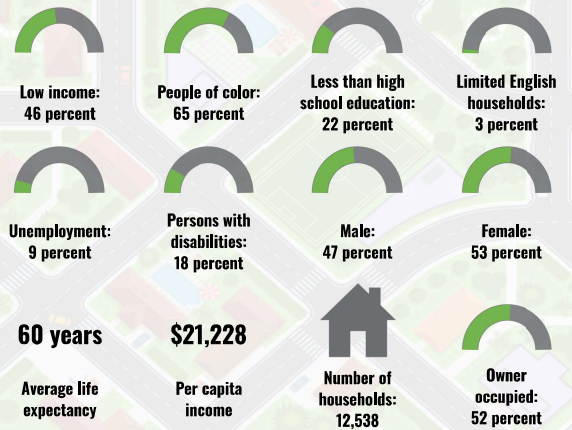
Population: 34,093

Area in square miles: 6.72

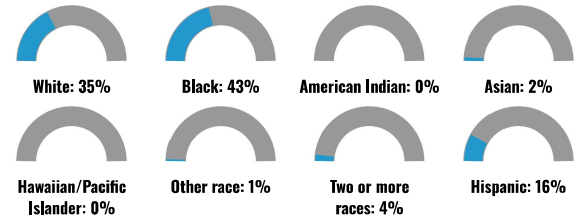
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	84%
Spanish	12%
French, Haitian, or Cajun	1%
Other Indo-European	1%
Tagalog (including Filipino)	1%
Other and Unspecified	1%
Total Non-English	16%

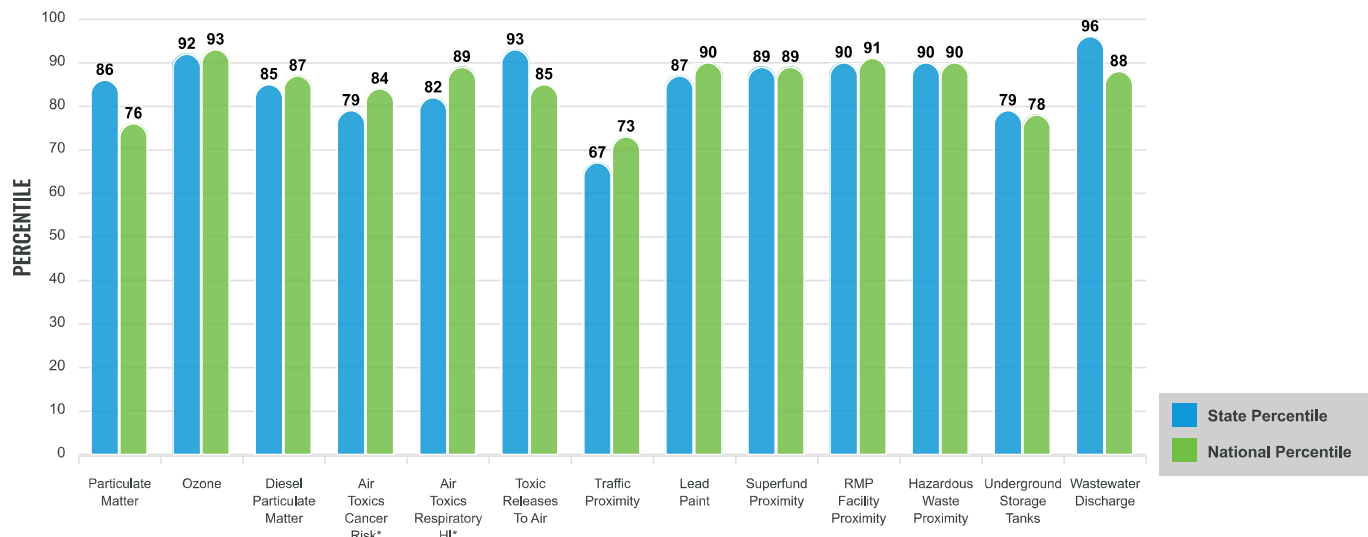
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

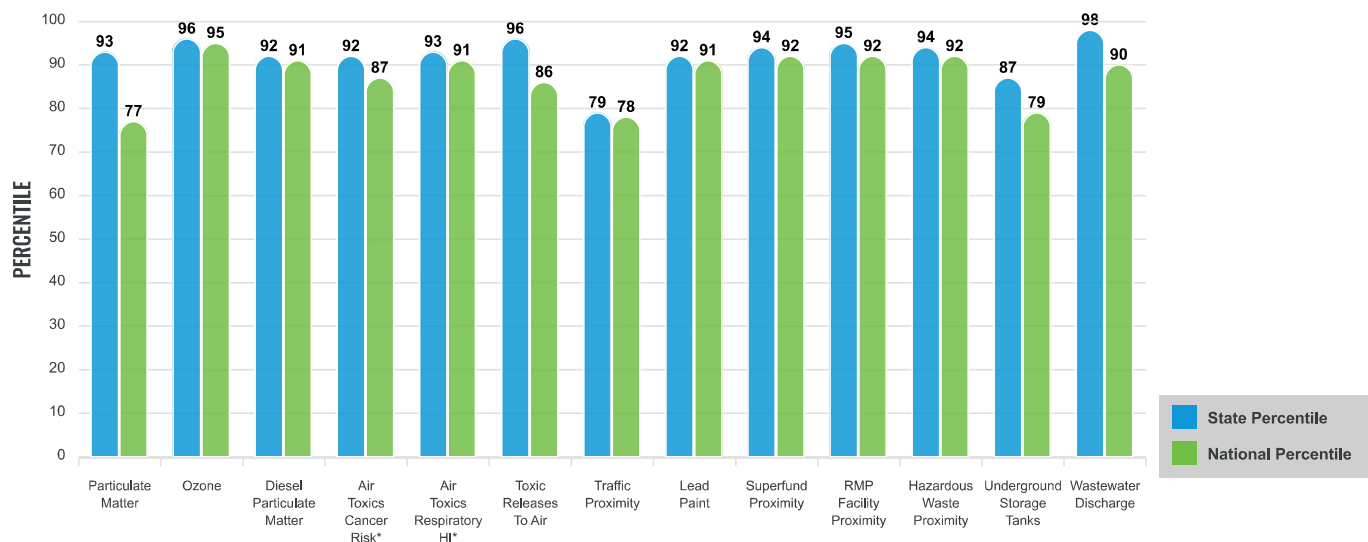
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.17	7.84	85	8.08	49
Ozone (ppb)	71.3	66	93	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.381	0.288	78	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,300	430	95	4,600	64
Traffic Proximity (daily traffic count/distance to road)	180	180	66	210	71
Lead Paint (% Pre-1960 Housing)	0.65	0.32	79	0.3	83
Superfund Proximity (site count/km distance)	0.2	0.13	85	0.13	86
RMP Facility Proximity (facility count/km distance)	1.8	0.42	94	0.43	95
Hazardous Waste Proximity (facility count/km distance)	5.8	2.1	89	1.9	91
Underground Storage Tanks (count/km ²)	2.5	1.9	72	3.9	63
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.074	1.2	92	22	80
SOCIOECONOMIC INDICATORS					
Demographic Index	56%	36%	78	35%	79
Supplemental Demographic Index	22%	12%	91	14%	83
People of Color	65%	49%	64	39%	75
Low Income	46%	22%	88	31%	77
Unemployment Rate	9%	6%	79	6%	77
Limited English Speaking Households	3%	3%	74	5%	70
Less Than High School Education	22%	10%	89	12%	83
Under Age 5	8%	6%	76	6%	76
Over Age 64	12%	16%	36	17%	34
Low Life Expectancy	26%	19%	92	20%	94

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	25
Air Pollution	67
Brownfields	6
Toxic Release Inventory	1

Other community features within defined area:

Schools	10
Hospitals	2
Places of Worship	25

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	26%	19%	92	20%	94
Heart Disease	6.4	5.3	78	6.1	56
Asthma	12.1	9.9	90	10	92
Cancer	5.4	6.1	37	6.1	33
Persons with Disabilities	16.6%	11.8%	83	13.4%	73

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	52	12%	36
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	24%	11%	88	14%	81
Lack of Health Insurance	8%	6%	77	9%	58
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



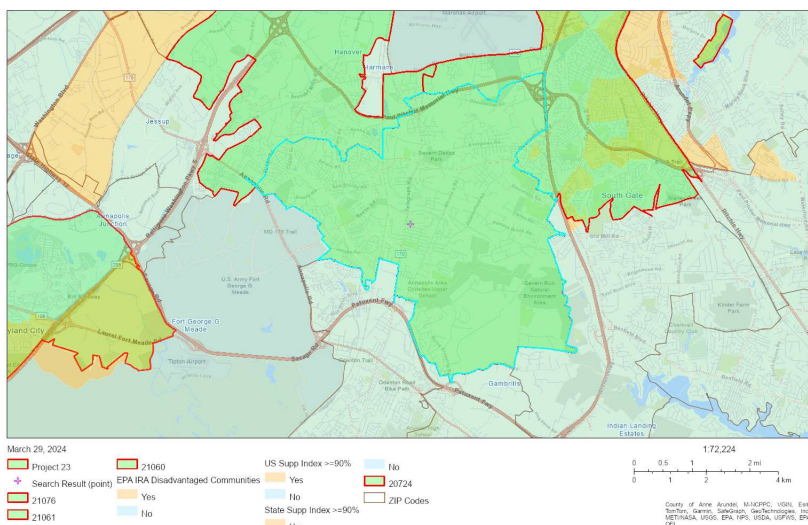
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

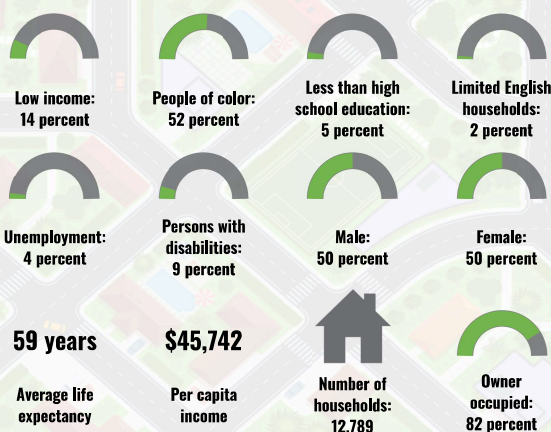
Severn, MD

the User Specified Area
Population: 36,454
Area in square miles: 15.89

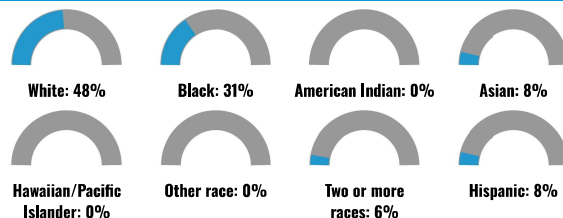
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	85%
Spanish	4%
French, Haitian, or Cajun	1%
German or other West Germanic	1%
Other Indo-European	2%
Korean	1%
Chinese (including Mandarin, Cantonese)	1%
Tagalog (including Filipino)	2%
Other Asian and Pacific Island	1%
Other and Unspecified	3%
Total Non-English	15%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

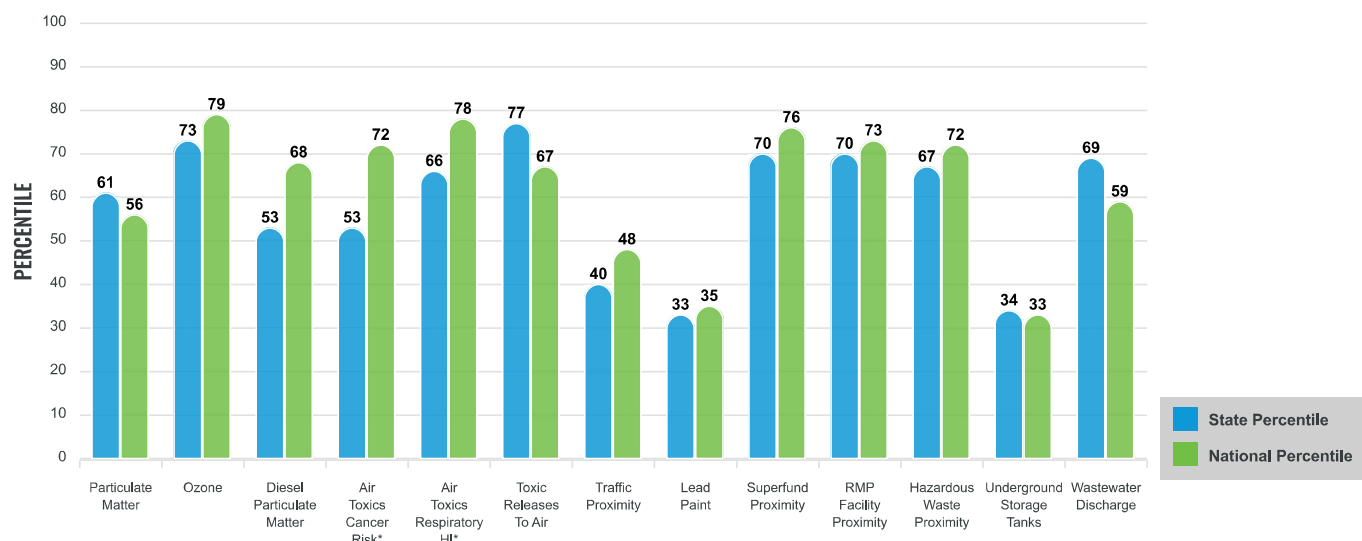
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

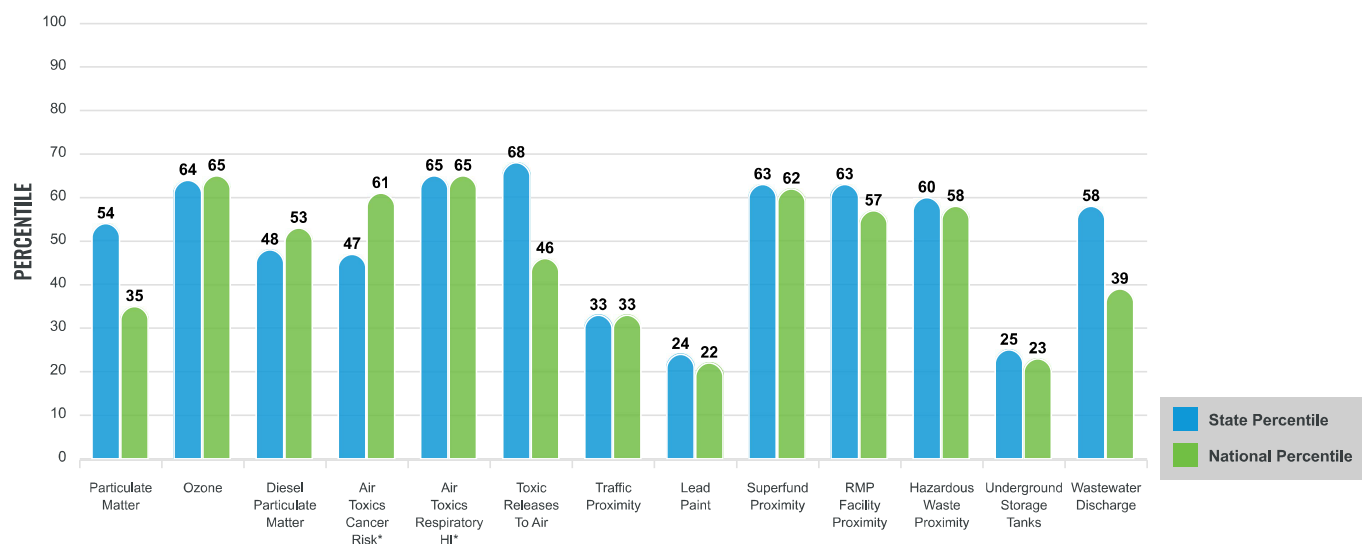
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.98	7.84	56	8.08	44
Ozone (ppb)	69.8	66	80	61.6	93
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.293	0.288	48	0.261	67
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,100	430	93	4,600	62
Traffic Proximity (daily traffic count/distance to road)	63	180	39	210	45
Lead Paint (% Pre-1960 Housing)	0.066	0.32	27	0.3	29
Superfund Proximity (site count/km distance)	0.2	0.13	85	0.13	85
RMP Facility Proximity (facility count/km distance)	0.65	0.42	80	0.43	81
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	0.45	1.9	37	3.9	38
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.018	1.2	86	22	72
SOCIOECONOMIC INDICATORS					
Demographic Index	33%	36%	51	35%	55
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	52%	49%	55	39%	67
Low Income	14%	22%	41	31%	25
Unemployment Rate	5%	6%	55	6%	55
Limited English Speaking Households	2%	3%	67	5%	64
Less Than High School Education	5%	10%	42	12%	38
Under Age 5	8%	6%	73	6%	73
Over Age 64	12%	16%	35	17%	34
Low Life Expectancy	14%	19%	8	20%	6

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	15
Air Pollution	19
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	5
Hospitals	0
Places of Worship	8

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	14%	19%	8	20%	6
Heart Disease	4.2	5.3	24	6.1	14
Asthma	9.4	9.9	38	10	33
Cancer	5.1	6.1	27	6.1	26
Persons with Disabilities	9%	11.8%	36	13.4%	25

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	49	12%	34
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	5%	11%	35	14%	26
Lack of Health Insurance	5%	6%	57	9%	37
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



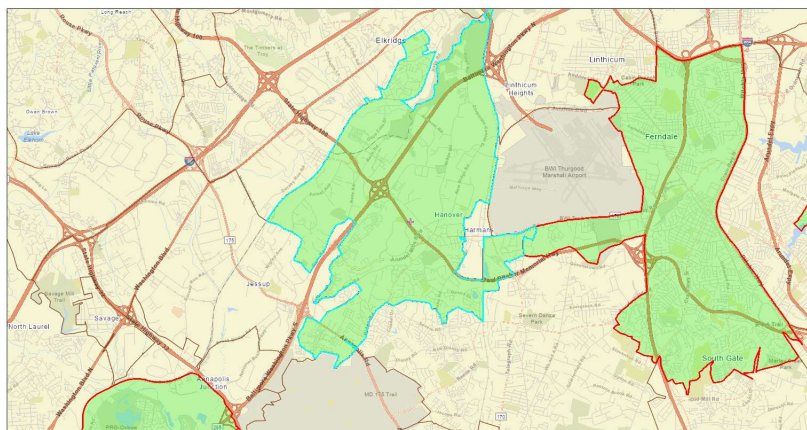
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Anne Arundel County, MD

the User Specified Area
Population: 20,900
Area in square miles: 12.81

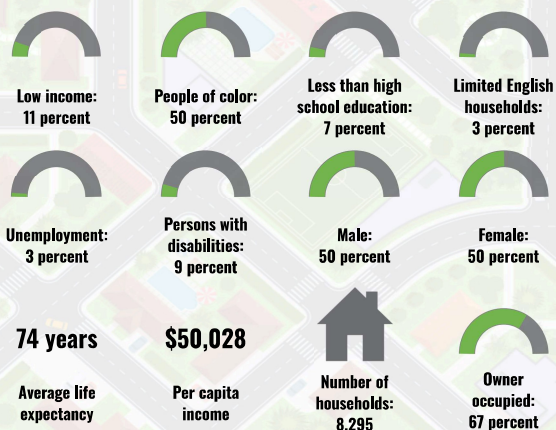
A3 Landscape



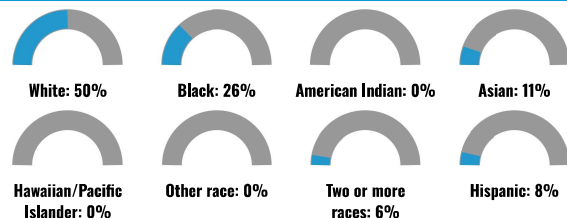
March 29, 2024
21076
21061
21060
21037
Project 14
Project 13
Project 12
Project 11
Project 20724
ZIP Codes

1:72,224
0 0.5 1 2 4
mi
km
County of Anne Arundel, VA; Dist. Tarrant, Texas; San Diego, CA; Montgomery, MD; Washington, DC; Baltimore, MD; EPA, NPS, USDA, USFWS, EPA/DEI

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	80%
Spanish	6%
Other Indo-European	3%
Korean	2%
Chinese (including Mandarin, Cantonese)	3%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	2%
Other and Unspecified	3%
Total Non-English	20%

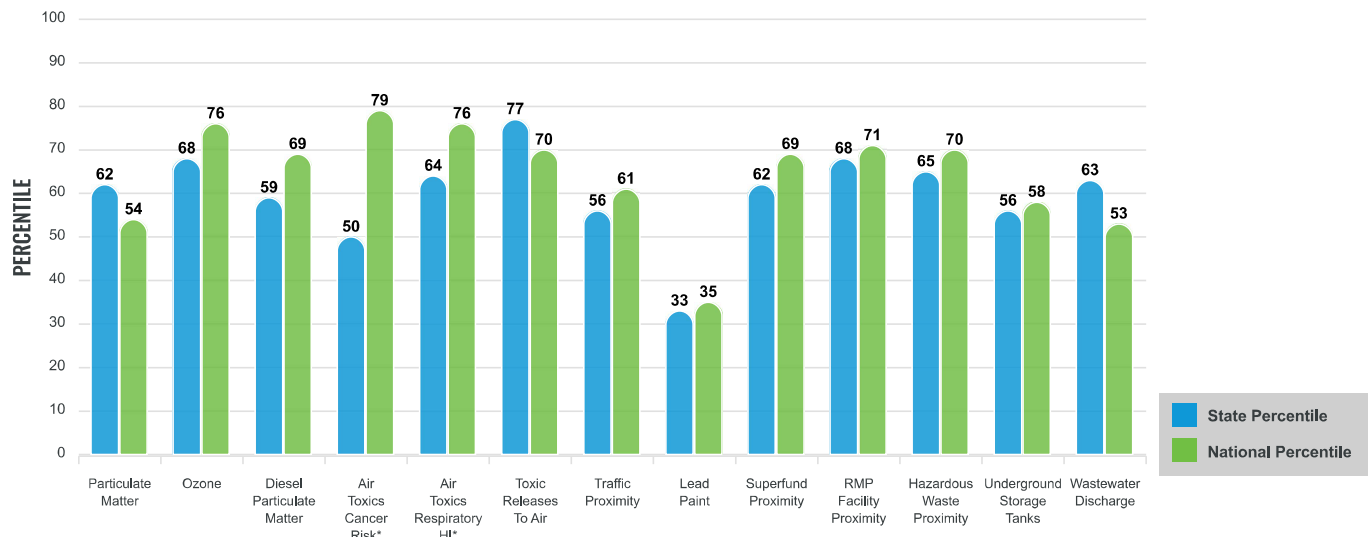
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

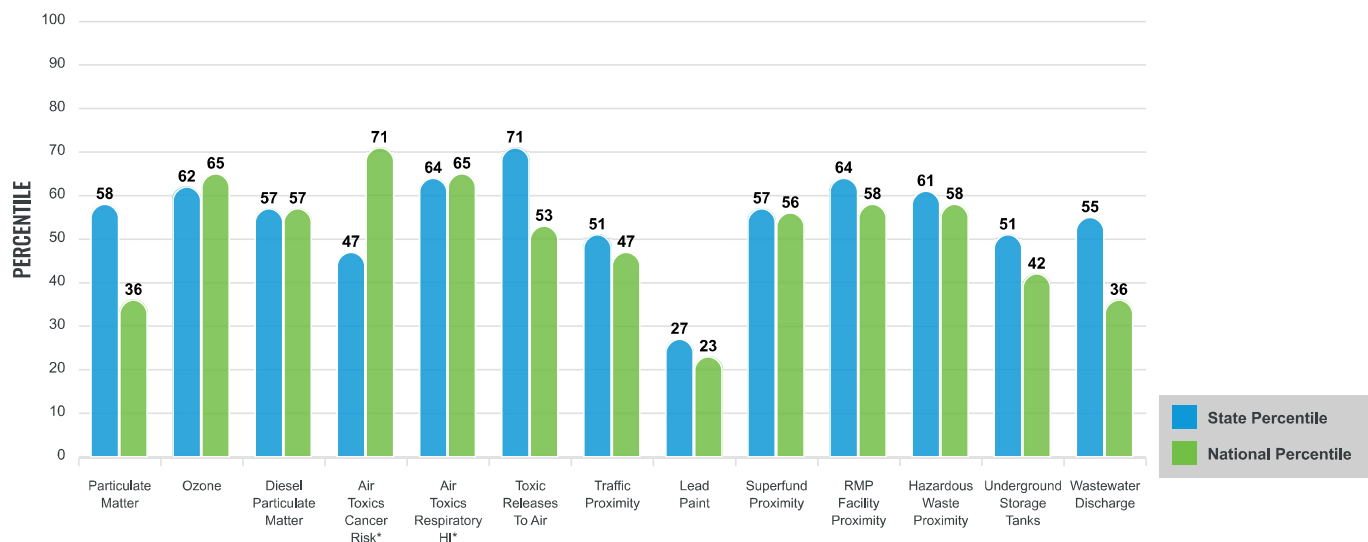
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.03	7.84	63	8.08	45
Ozone (ppb)	69.4	66	75	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.342	0.288	64	0.261	75
Air Toxics Cancer Risk* (lifetime risk per million)	36	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	2,000	430	98	4,600	72
Traffic Proximity (daily traffic count/distance to road)	170	180	65	210	70
Lead Paint (% Pre-1960 Housing)	0.09	0.32	32	0.3	33
Superfund Proximity (site count/km distance)	0.13	0.13	70	0.13	74
RMP Facility Proximity (facility count/km distance)	0.91	0.42	84	0.43	87
Hazardous Waste Proximity (facility count/km distance)	3.1	2.1	76	1.9	81
Underground Storage Tanks (count/km ²)	1.7	1.9	61	3.9	56
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.006	1.2	80	22	63
SOCIOECONOMIC INDICATORS					
Demographic Index	30%	36%	47	35%	52
Supplemental Demographic Index	8%	12%	35	14%	24
People of Color	50%	49%	53	39%	66
Low Income	11%	22%	35	31%	20
Unemployment Rate	3%	6%	44	6%	45
Limited English Speaking Households	3%	3%	71	5%	68
Less Than High School Education	7%	10%	50	12%	45
Under Age 5	6%	6%	60	6%	61
Over Age 64	11%	16%	33	17%	31
Low Life Expectancy	17%	19%	25	20%	22

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	40
Air Pollution	24
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	4
Hospitals	0
Places of Worship	3

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	25	20%	22
Heart Disease	3.8	5.3	16	6.1	9
Asthma	8.6	9.9	19	10	15
Cancer	5	6.1	24	6.1	24
Persons with Disabilities	8.7%	11.8%	33	13.4%	23

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	46	12%	33
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	2%	11%	22	14%	16
Lack of Health Insurance	4%	6%	48	9%	30
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



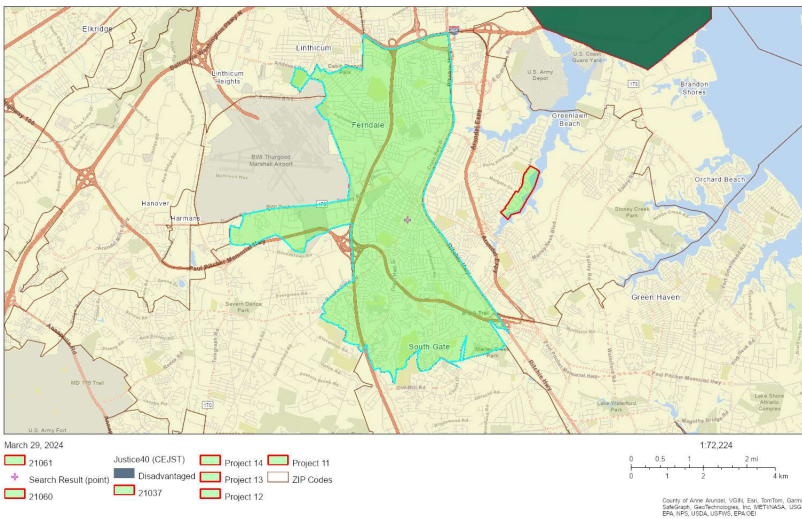
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

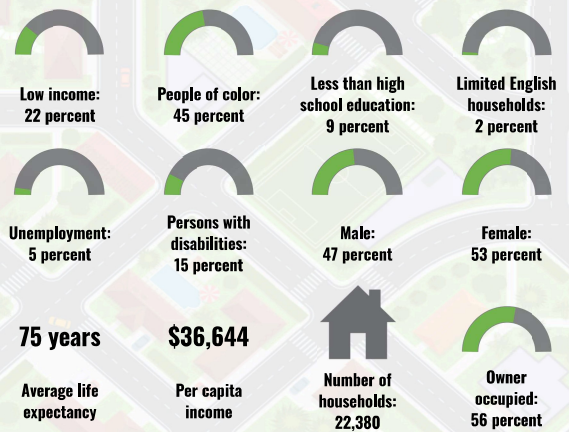
Glen Burnie, MD

the User Specified Area
Population: 55,763
Area in square miles: 12.08

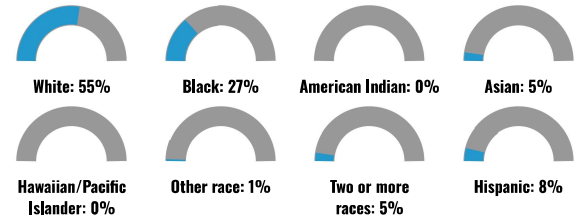
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	87%
Spanish	6%
French, Haitian, or Cajun	1%
Other Indo-European	2%
Tagalog (including Filipino)	2%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	13%

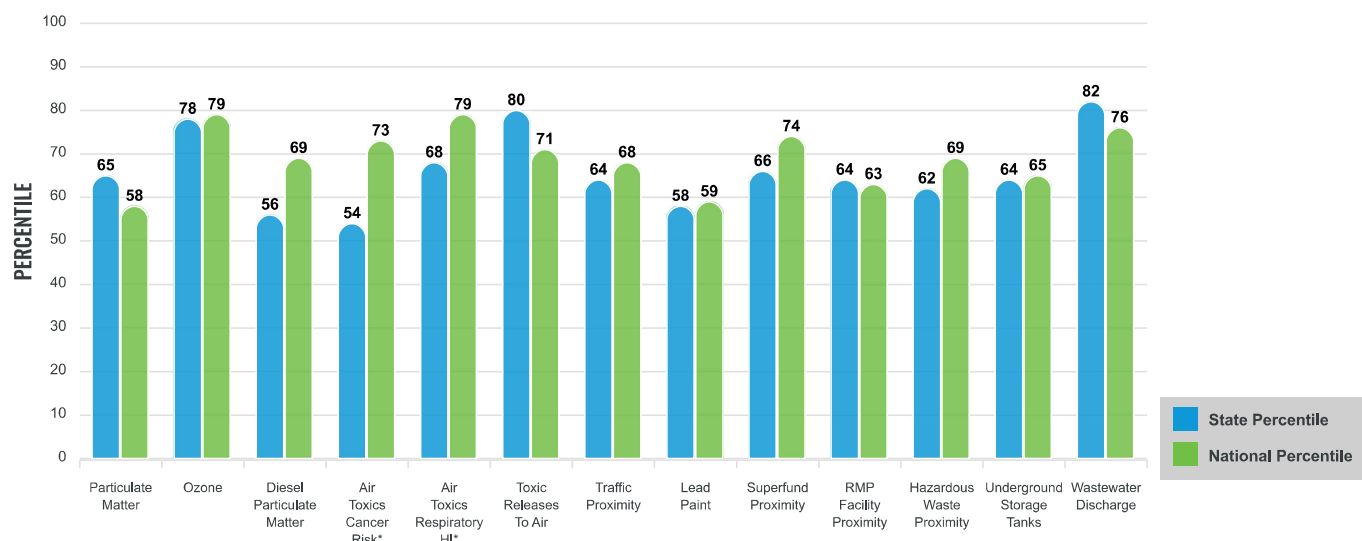
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

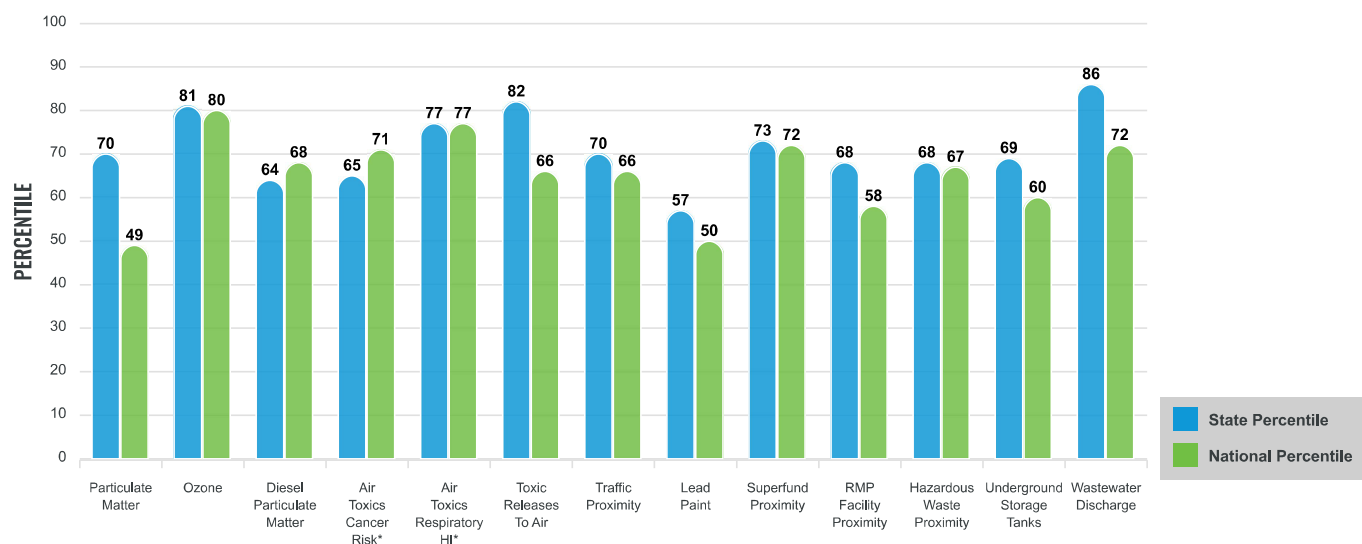
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.04	7.84	64	8.08	45
Ozone (ppb)	70.9	66	90	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.315	0.288	57	0.261	71
Air Toxics Cancer Risk* (lifetime risk per million)	31	28	18	25	52
Air Toxics Respiratory HI*	0.41	0.34	50	0.31	70
Toxic Releases to Air	1,500	430	97	4,600	67
Traffic Proximity (daily traffic count/distance to road)	310	180	81	210	83
Lead Paint (% Pre-1960 Housing)	0.27	0.32	56	0.3	55
Superfund Proximity (site count/km distance)	0.15	0.13	76	0.13	78
RMP Facility Proximity (facility count/km distance)	0.22	0.42	67	0.43	60
Hazardous Waste Proximity (facility count/km distance)	1.9	2.1	65	1.9	73
Underground Storage Tanks (count/km ²)	2.9	1.9	75	3.9	66
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.15	1.2	94	22	84
SOCIOECONOMIC INDICATORS					
Demographic Index	33%	36%	51	35%	56
Supplemental Demographic Index	12%	12%	58	14%	45
People of Color	45%	49%	49	39%	62
Low Income	22%	22%	58	31%	41
Unemployment Rate	5%	6%	58	6%	58
Limited English Speaking Households	2%	3%	65	5%	63
Less Than High School Education	9%	10%	59	12%	53
Under Age 5	6%	6%	61	6%	62
Over Age 64	13%	16%	44	17%	41
Low Life Expectancy	22%	19%	75	20%	70

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	4
Water Dischargers	40
Air Pollution	
.	102
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	13
Hospitals	2
Places of Worship	11

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	22%	19%	75	20%	70
Heart Disease	5.3	5.3	52	6.1	33
Asthma	9.6	9.9	48	10	43
Cancer	5.6	6.1	41	6.1	37
Persons with Disabilities	14.2%	11.8%	73	13.4%	61

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	62	12%	45
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	10%	11%	58	14%	45
Lack of Health Insurance	5%	6%	59	9%	38
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



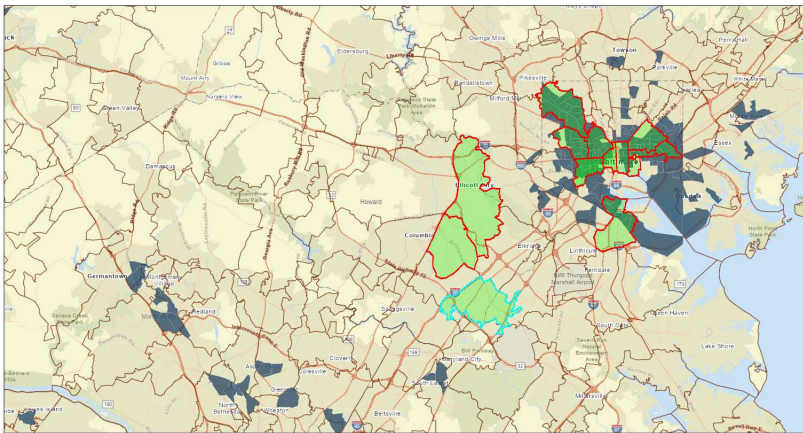
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Howard County, MD

the User Specified Area
Population: 17,082
Area in square miles: 10.39

A3 Landscape



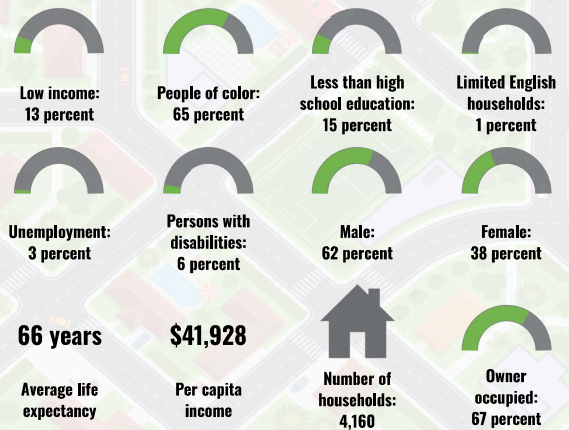
March 24, 2024

20794 21287 Project 10 Project 7 Project 4 Project 1
21043 Project 12 Project 9 Project 8 Project 3 Justice40 (CEJST)
21045 Project 11 Project 6 Project 5 Project 2 Disadvantaged
ZIP Codes

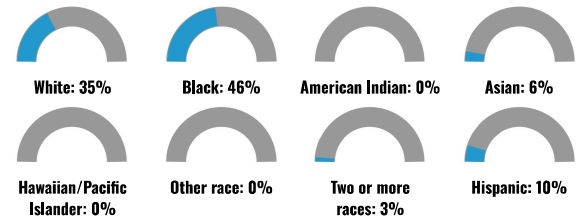
0 2.75 5.5 11 mi
0 4.5 9 18 km

Baltimore County Government, USGS, Esri, Garmin, GeoEye, Mapbox, Mapbox, USGS, EPA, NPS, USDA, USFWS, EPA, NOAA

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	80%
Spanish	9%
French, Haitian, or Cajun	1%
Russian, Polish, or Other Slavic	1%
Other Indo-European	1%
Korean	3%
Chinese (including Mandarin, Cantonese)	1%
Other Asian and Pacific Island	1%
Other and Unspecified	2%
Total Non-English	20%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

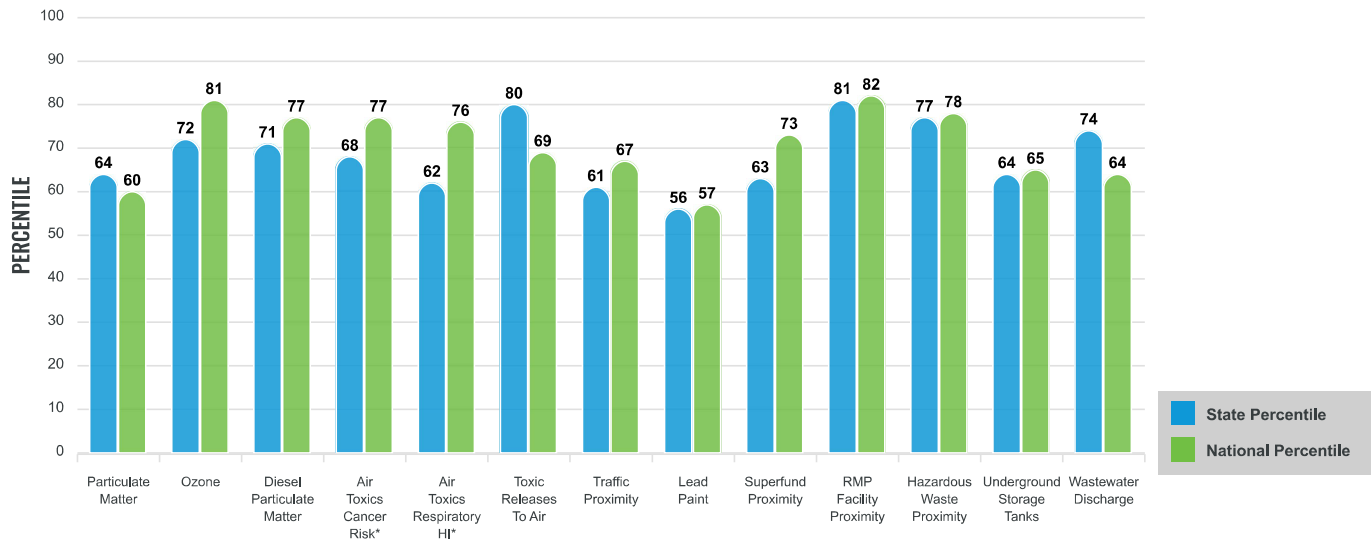
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

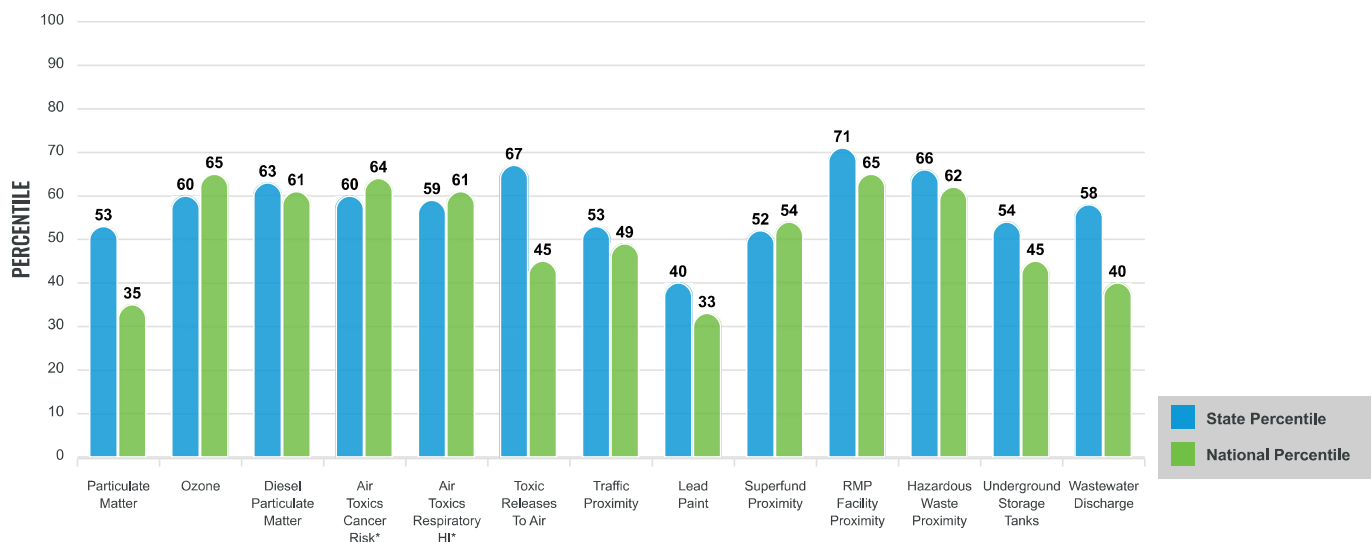
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.96	7.84	53	8.08	43
Ozone (ppb)	68.7	66	68	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.385	0.288	79	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	32	28	18	25	52
Air Toxics Respiratory HI*	0.37	0.34	7	0.31	31
Toxic Releases to Air	1,100	430	91	4,600	60
Traffic Proximity (daily traffic count/distance to road)	210	180	71	210	75
Lead Paint (% Pre-1960 Housing)	0.17	0.32	44	0.3	45
Superfund Proximity (site count/km distance)	0.1	0.13	59	0.13	68
RMP Facility Proximity (facility count/km distance)	3.5	0.42	99	0.43	99
Hazardous Waste Proximity (facility count/km distance)	4.9	2.1	86	1.9	89
Underground Storage Tanks (count/km ²)	1.6	1.9	61	3.9	55
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.012	1.2	84	22	69
SOCIOECONOMIC INDICATORS					
Demographic Index	38%	36%	56	35%	61
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	65%	49%	64	39%	75
Low Income	13%	22%	40	31%	24
Unemployment Rate	3%	6%	39	6%	40
Limited English Speaking Households	1%	3%	60	5%	59
Less Than High School Education	15%	10%	80	12%	73
Under Age 5	4%	6%	43	6%	44
Over Age 64	8%	16%	20	17%	19
Low Life Expectancy	13%	19%	7	20%	4

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	6
Water Dischargers	60
Air Pollution	43
Brownfields	0
Toxic Release Inventory	11

Other community features within defined area:

Schools	3
Hospitals	1
Places of Worship	7

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	13%	19%	7	20%	4
Heart Disease	3.5	5.3	11	6.1	7
Asthma	9	9.9	27	10	22
Cancer	4	6.1	10	6.1	11
Persons with Disabilities	9.2%	11.8%	38	13.4%	26

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	59	12%	42
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	47	14%	36
Lack of Health Insurance	5%	6%	61	9%	39
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



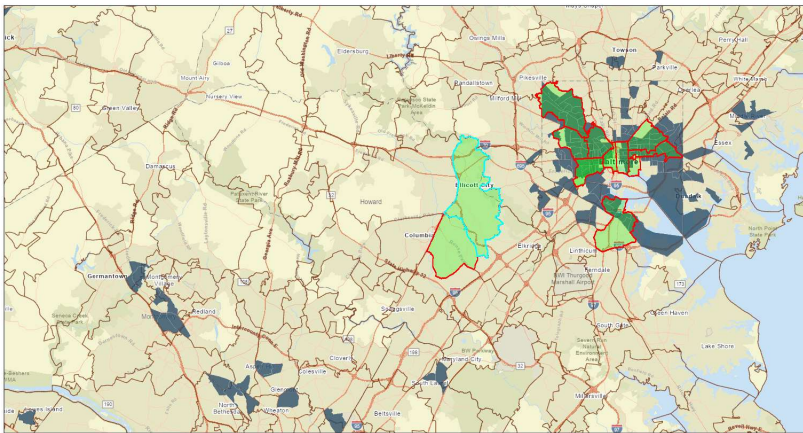
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Ellicott City, MD

the User Specified Area
Population: 47,625
Area in square miles: 17.37

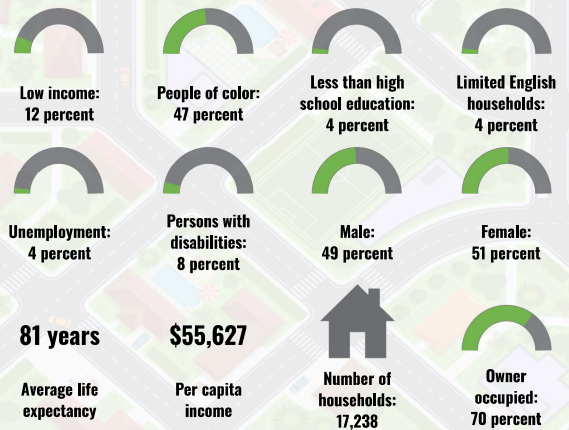
A3 Landscape



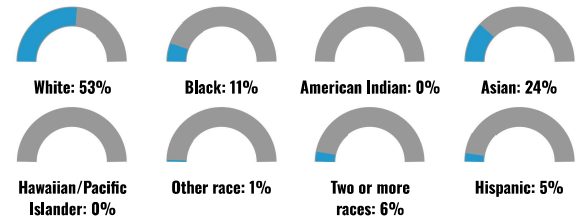
March 24, 2024
21043 Project 11 Project 7 Project 3 Justice40 (CEJST)
21045 Project 10 Project 6 Project 2 Disadvantaged
21287 Project 9 Project 5 Project 1 ZIP Codes
Project 12 Project 8 Project 4

0 2.75 5.5 11 mi
0 4.5 9 18 km
Baltimore County Government, USGS, Esri, Garmin, GeoEye, Mapbox, Microsoft, NOAA, USGS, EPA, NPS, USDA, USFWS, EPA, DOE

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	70%
Spanish	4%
French, Haitian, or Cajun	1%
Russian, Polish, or Other Slavic	1%
Other Indo-European	6%
Korean	5%
Chinese (including Mandarin, Cantonese)	3%
Vietnamese	1%
Other Asian and Pacific Island	5%
Arabic	2%
Other and Unspecified	1%
Total Non-English	30%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

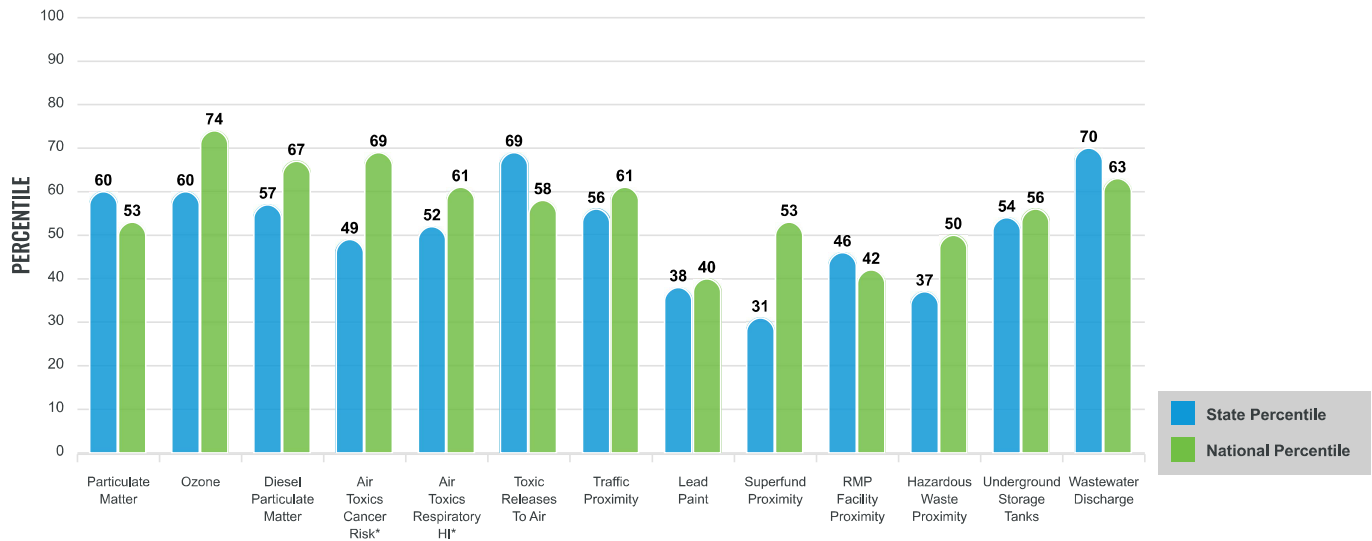
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

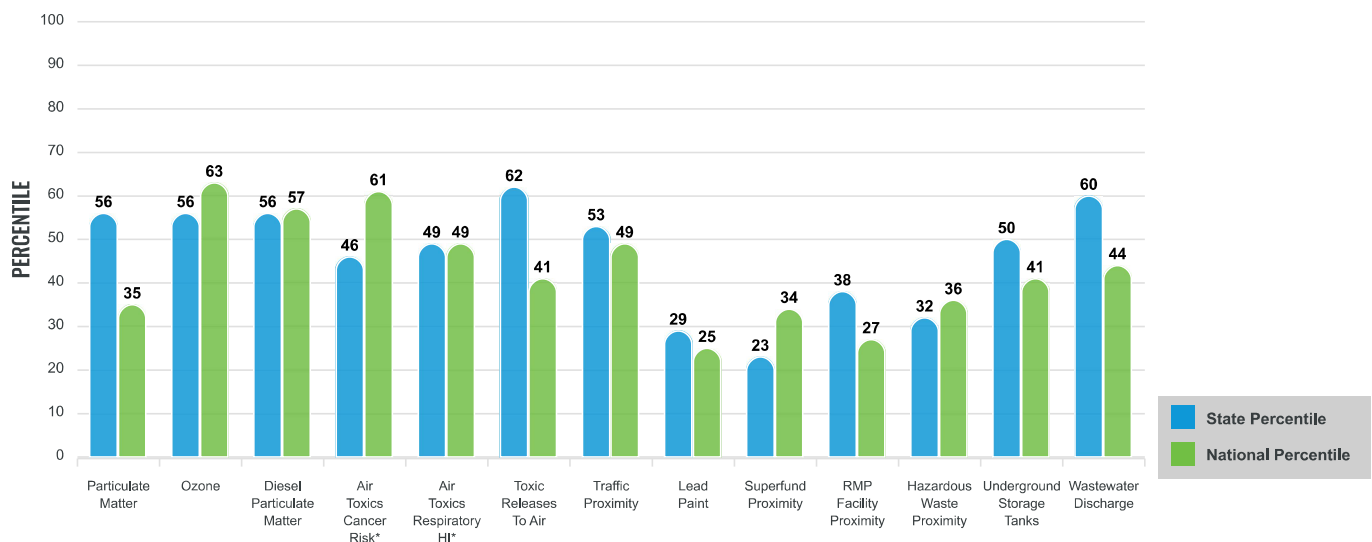
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.01	7.84	60	8.08	45
Ozone (ppb)	68.2	66	64	61.6	89
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.336	0.288	62	0.261	75
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.34	0.34	7	0.31	31
Toxic Releases to Air	770	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	170	180	66	210	71
Lead Paint (% Pre-1960 Housing)	0.083	0.32	31	0.3	32
Superfund Proximity (site count/km distance)	0.051	0.13	24	0.13	44
RMP Facility Proximity (facility count/km distance)	0.13	0.42	49	0.43	39
Hazardous Waste Proximity (facility count/km distance)	0.52	2.1	36	1.9	50
Underground Storage Tanks (count/km ²)	1.5	1.9	58	3.9	53
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.031	1.2	88	22	75
SOCIOECONOMIC INDICATORS					
Demographic Index	30%	36%	46	35%	50
Supplemental Demographic Index	8%	12%	34	14%	23
People of Color	47%	49%	51	39%	64
Low Income	12%	22%	38	31%	22
Unemployment Rate	4%	6%	47	6%	48
Limited English Speaking Households	4%	3%	77	5%	72
Less Than High School Education	4%	10%	30	12%	28
Under Age 5	5%	6%	55	6%	56
Over Age 64	13%	16%	40	17%	38
Low Life Expectancy	17%	19%	29	20%	27

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	28
Air Pollution	44
Brownfields	0
Toxic Release Inventory	2

Other community features within defined area:

Schools	8
Hospitals	3
Places of Worship	17

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	29	20%	27
Heart Disease	3.9	5.3	16	6.1	9
Asthma	8.1	9.9	10	10	7
Cancer	5.5	6.1	39	6.1	35
Persons with Disabilities	7.5%	11.8%	22	13.4%	15

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	54	12%	38
Wildfire Risk	0%	1%	0	14%	0

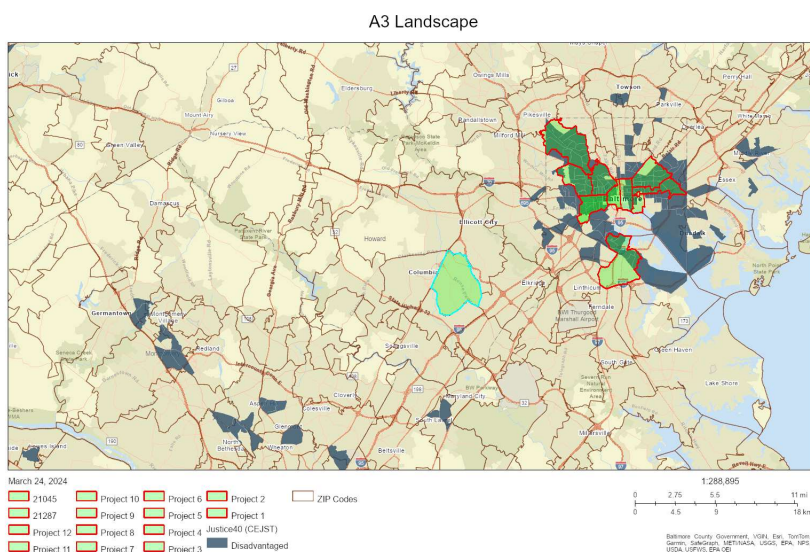
CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	4%	11%	34	14%	24
Lack of Health Insurance	3%	6%	26	9%	16
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

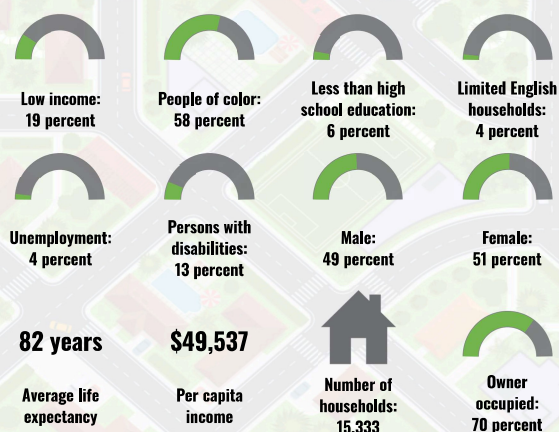
Report for the User Specified Area

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

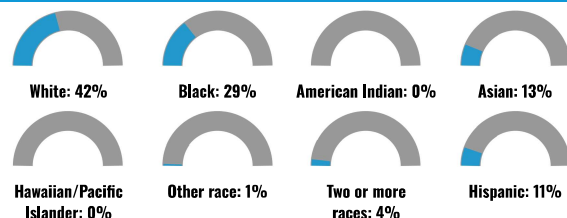
the User Specified Area
Population: 40,612
Area in square miles: 9.83



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGE	PERCENT
English	75%
Spanish	9%
French, Haitian, or Cajun	1%
Other Indo-European	5%
Korean	2%
Chinese (including Mandarin, Cantonese)	2%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	25%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

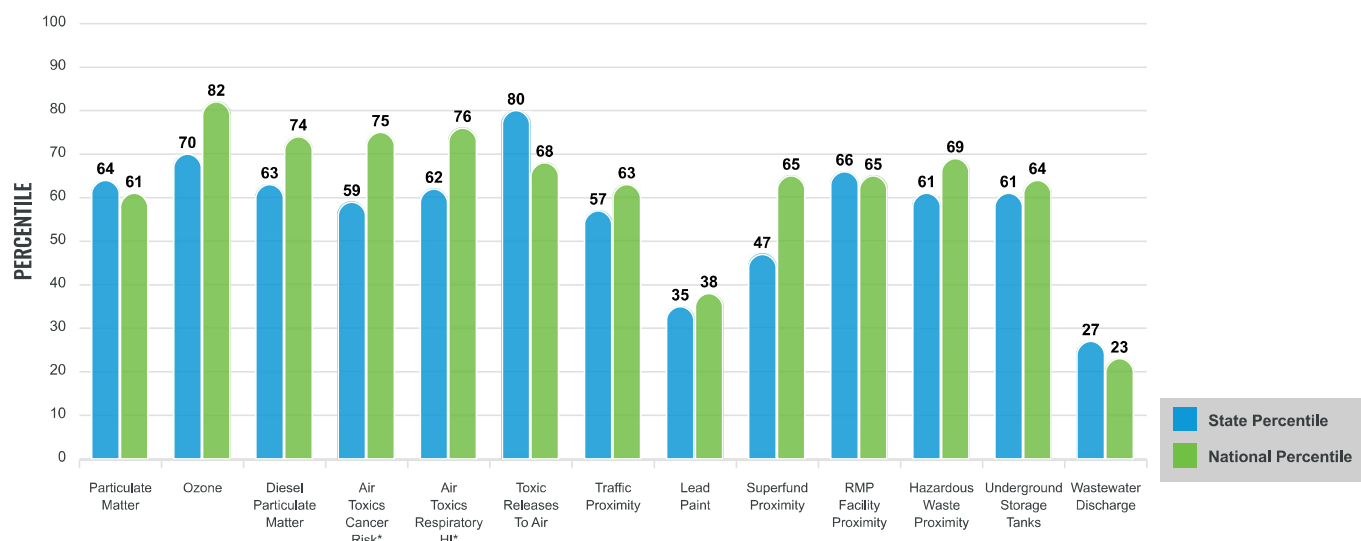
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

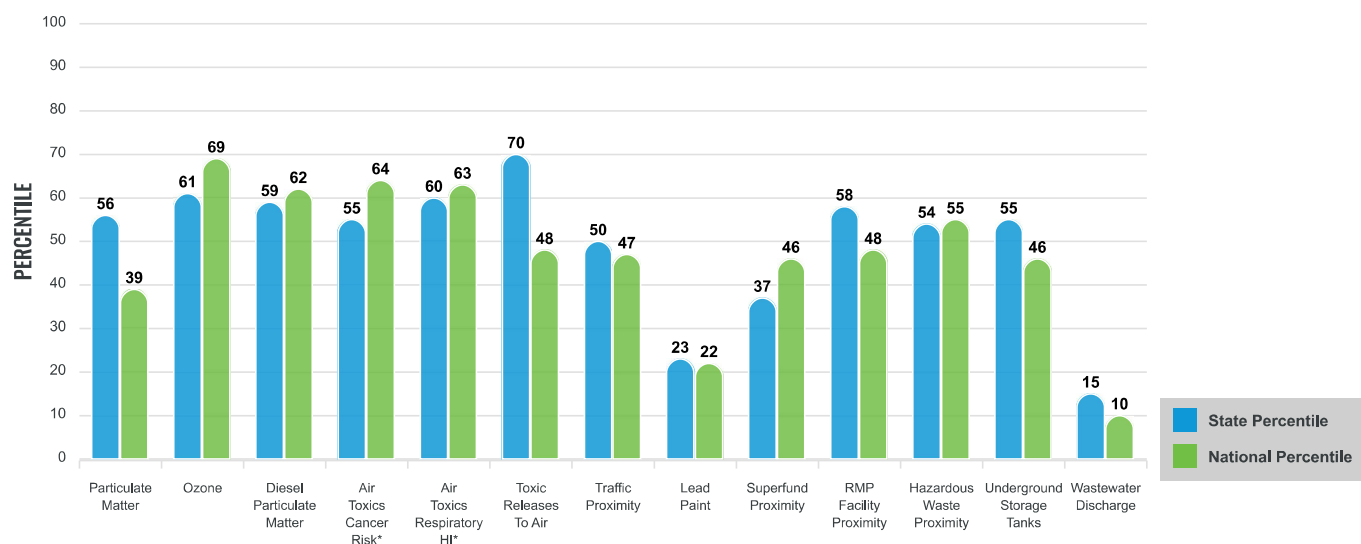
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.95	7.84	52	8.08	43
Ozone (ppb)	68.1	66	64	61.6	89
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.331	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.37	0.34	7	0.31	31
Toxic Releases to Air	780	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	110	180	52	210	58
Lead Paint (% Pre-1960 Housing)	0.037	0.32	19	0.3	23
Superfund Proximity (site count/km distance)	0.06	0.13	32	0.13	50
RMP Facility Proximity (facility count/km distance)	0.25	0.42	69	0.43	63
Hazardous Waste Proximity (facility count/km distance)	1.3	2.1	56	1.9	65
Underground Storage Tanks (count/km ²)	1.5	1.9	59	3.9	54
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00077	1.2	66	22	46
SOCIOECONOMIC INDICATORS					
Demographic Index	39%	36%	57	35%	62
Supplemental Demographic Index	10%	12%	45	14%	32
People of Color	58%	49%	60	39%	71
Low Income	19%	22%	52	31%	35
Unemployment Rate	4%	6%	48	6%	49
Limited English Speaking Households	4%	3%	78	5%	73
Less Than High School Education	6%	10%	44	12%	40
Under Age 5	7%	6%	67	6%	67
Over Age 64	17%	16%	57	17%	55
Low Life Expectancy	15%	19%	15	20%	12

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	32
Air Pollution	50
Brownfields	0
Toxic Release Inventory	5

Other community features within defined area:

Schools	12
Hospitals	0
Places of Worship	9

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	15%	19%	15	20%	12
Heart Disease	4.2	5.3	21	6.1	13
Asthma	9.1	9.9	29	10	25
Cancer	5.4	6.1	34	6.1	31
Persons with Disabilities	11.9%	11.8%	58	13.4%	46

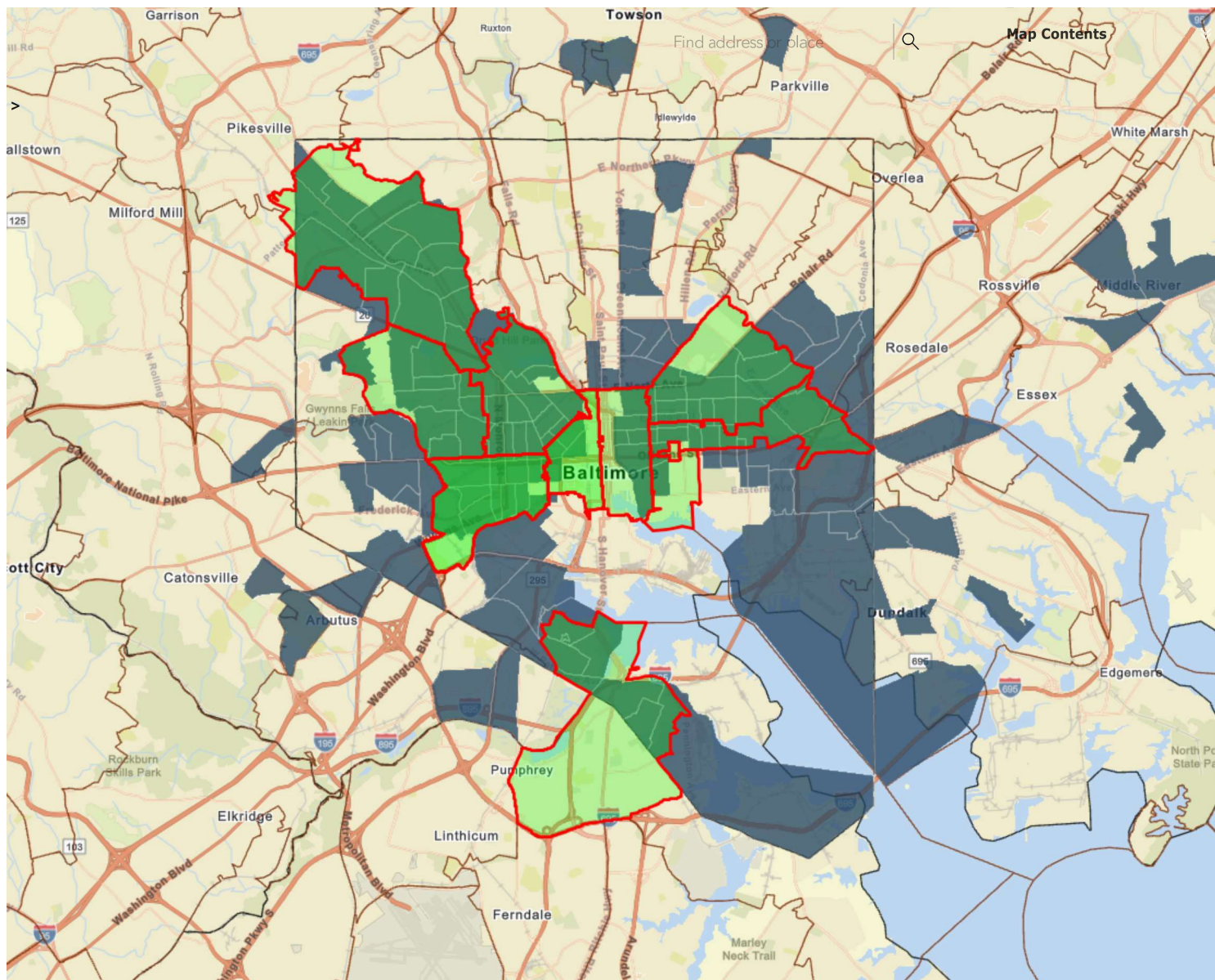
CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	45	12%	32
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	5%	11%	38	14%	27
Lack of Health Insurance	6%	6%	66	9%	45
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

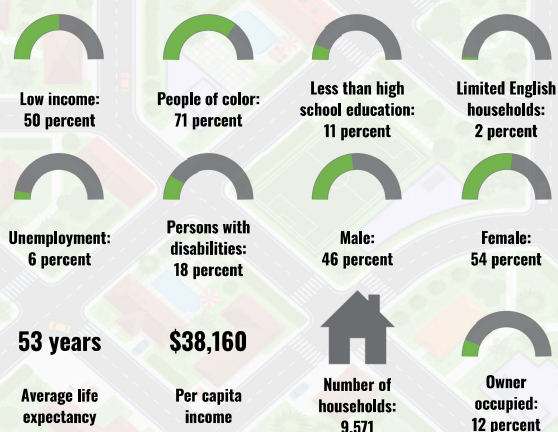


EnviroMapper®

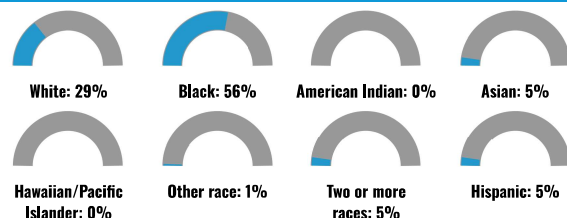
Baltimore County Government, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS | EPA OEI | Coun... Powered by Esri (<http://www.esri.com/>)

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Area in square miles: 1.23



BREAKDOWN BY RACE



LANGUAGE	PERCENT
English	88%
Spanish	3%
French, Haitian, or Cajun	1%
Other Indo-European	2%
Korean	1%
Chinese (including Mandarin, Cantonese)	2%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	12%

BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

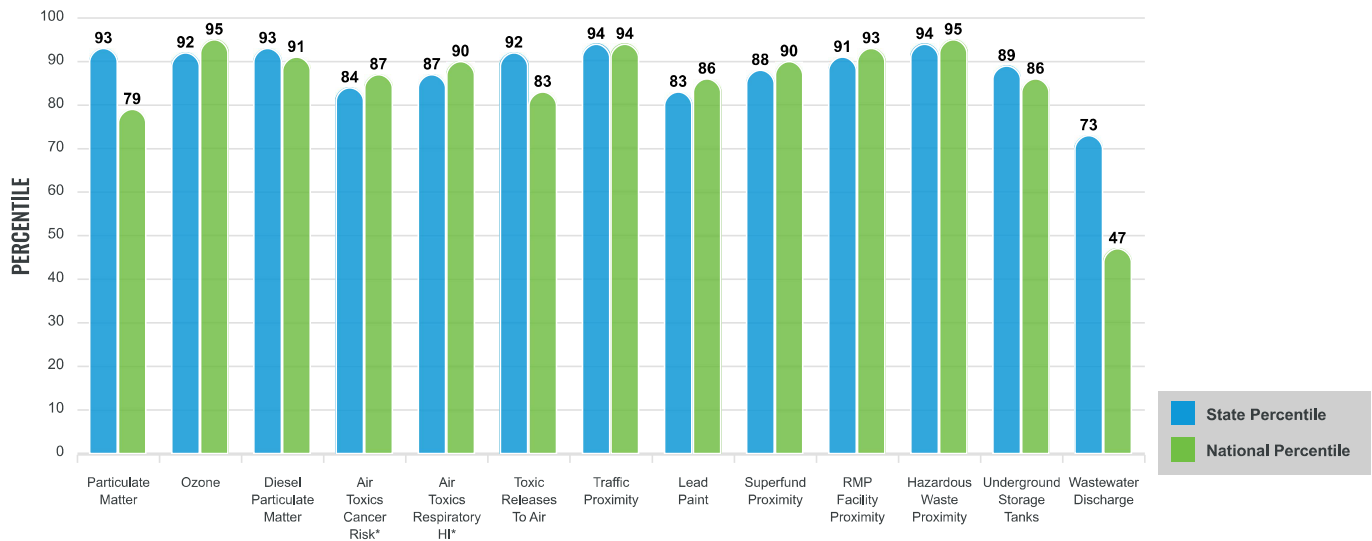
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

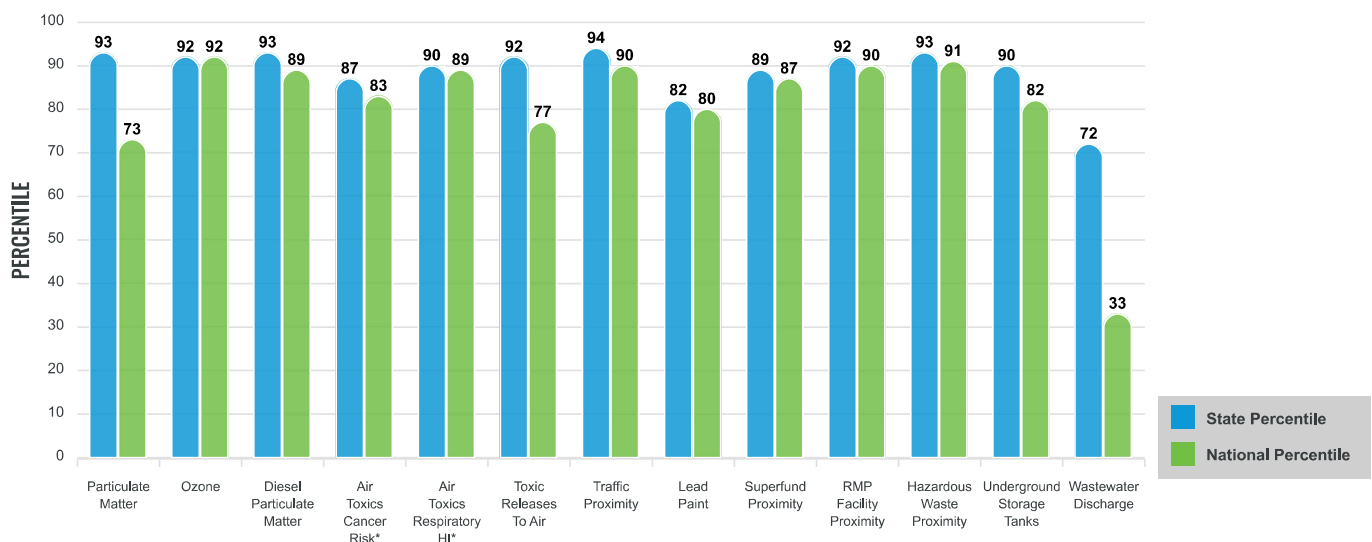
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.23	7.84	98	8.08	51
Ozone (ppb)	70.3	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.427	0.288	92	0.261	86
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	800	430	86	4,600	55
Traffic Proximity (daily traffic count/distance to road)	1,100	180	98	210	96
Lead Paint (% Pre-1960 Housing)	0.47	0.32	70	0.3	71
Superfund Proximity (site count/km distance)	0.14	0.13	74	0.13	77
RMP Facility Proximity (facility count/km distance)	1.4	0.42	89	0.43	92
Hazardous Waste Proximity (facility count/km distance)	14	2.1	99	1.9	98
Underground Storage Tanks (count/km ²)	4.9	1.9	88	3.9	77
Wastewater Discharge (toxicity-weighted concentration/m distance)	4E-05	1.2	46	22	25
SOCIOECONOMIC INDICATORS					
Demographic Index	61%	36%	84	35%	84
Supplemental Demographic Index	19%	12%	86	14%	76
People of Color	71%	49%	68	39%	78
Low Income	50%	22%	90	31%	81
Unemployment Rate	6%	6%	64	6%	64
Limited English Speaking Households	2%	3%	63	5%	62
Less Than High School Education	11%	10%	69	12%	62
Under Age 5	4%	6%	43	6%	44
Over Age 64	10%	16%	27	17%	25
Low Life Expectancy	20%	19%	60	20%	53

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	4
Water Dischargers	15
Air Pollution	77
Brownfields	3
Toxic Release Inventory	0

Other community features within defined area:

Schools	4
Hospitals	3
Places of Worship	17

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	20%	19%	60	20%	53
Heart Disease	5.1	5.3	46	6.1	28
Asthma	12.1	9.9	89	10	91
Cancer	4.3	6.1	13	6.1	14
Persons with Disabilities	17.4%	11.8%	86	13.4%	77

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	43	12%	31
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	17%	11%	79	14%	68
Lack of Health Insurance	3%	6%	37	9%	23
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

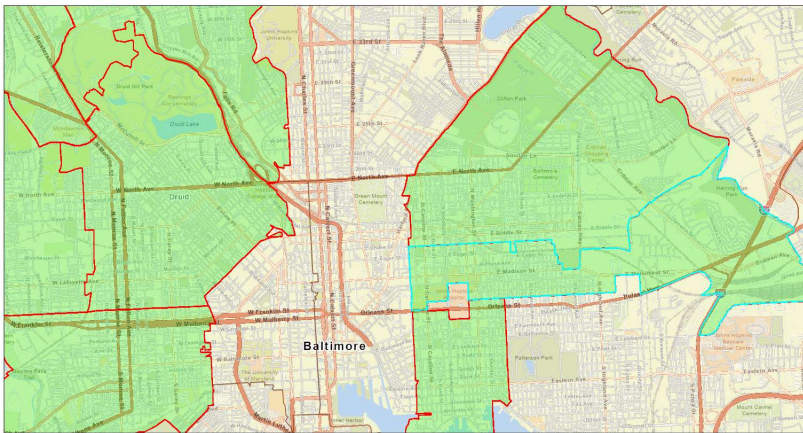
Baltimore, MD

the User Specified Area

Population: 14,710

Area in square miles: 2.11

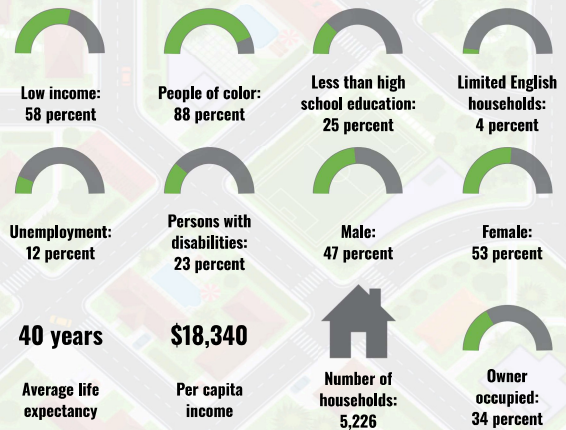
A3 Landscape



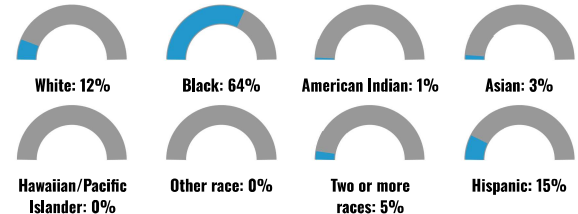
March 24, 2004
 21205 Project 5 21216
 21231 21223 21217
 Project 7 21215 ZIP Codes

1:36,112
 0 0.35 0.7 1.4 mi
 0 0.5 1 2 km
 EPA, OGI, City of Baltimore, Baltimore County, Department 100A, Bar Harbor, Green, Landmark, GeoTechnology, Inc., UET/ISAIA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	77%
Spanish	13%
Chinese (including Mandarin, Cantonese)	2%
Other Asian and Pacific Island	2%
Arabic	4%
Other and Unspecified	1%
Total Non-English	23%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

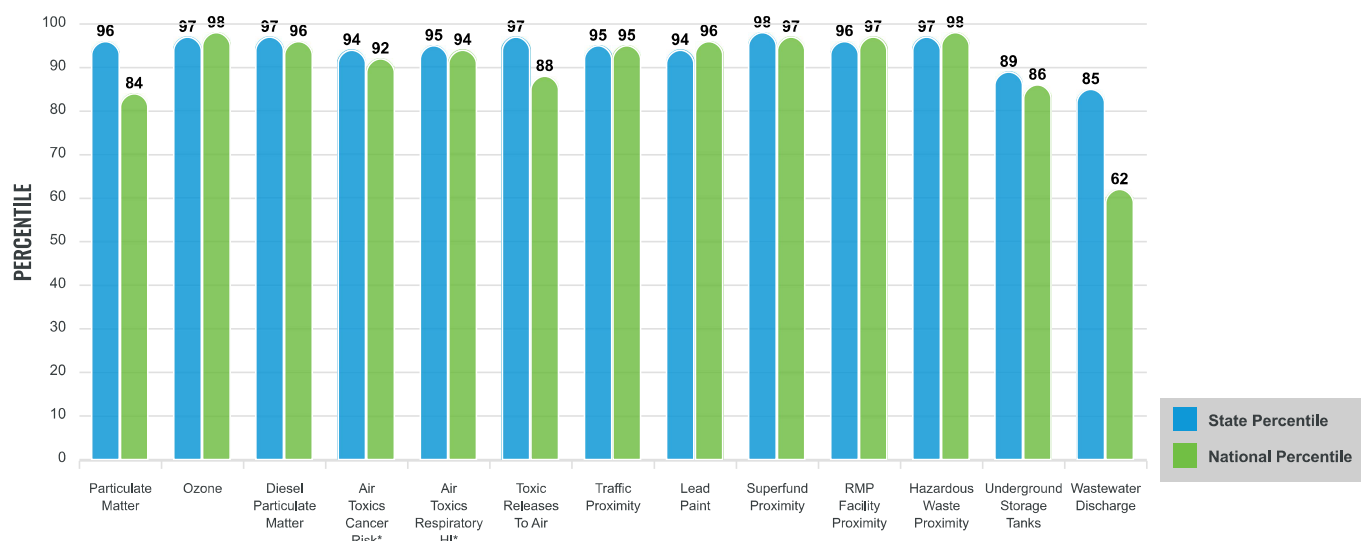
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

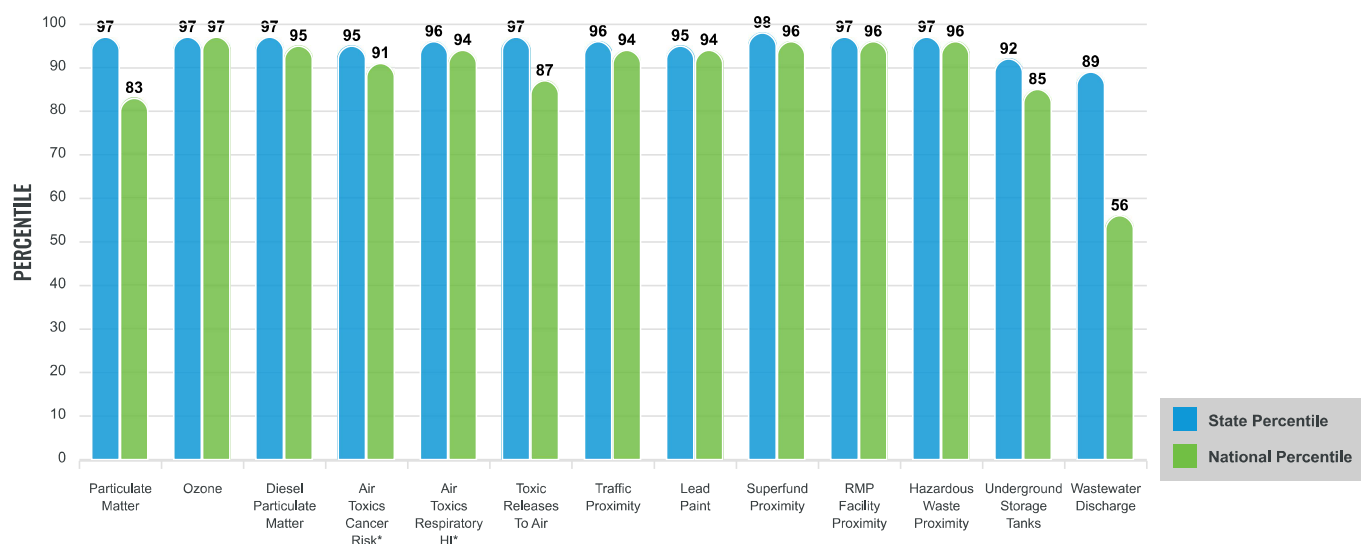
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.21	7.84	93	8.08	50
Ozone (ppb)	71.1	66	91	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.43	0.288	93	0.261	86
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	870	430	88	4,600	56
Traffic Proximity (daily traffic count/distance to road)	370	180	85	210	86
Lead Paint (% Pre-1960 Housing)	0.71	0.32	82	0.3	86
Superfund Proximity (site count/km distance)	0.46	0.13	95	0.13	94
RMP Facility Proximity (facility count/km distance)	2.1	0.42	96	0.43	96
Hazardous Waste Proximity (facility count/km distance)	11	2.1	97	1.9	96
Underground Storage Tanks (count/km ²)	3.1	1.9	77	3.9	68
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00018	1.2	56	22	34
SOCIOECONOMIC INDICATORS					
Demographic Index	73%	36%	94	35%	92
Supplemental Demographic Index	26%	12%	95	14%	90
People of Color	88%	49%	80	39%	87
Low Income	58%	22%	93	31%	87
Unemployment Rate	12%	6%	88	6%	86
Limited English Speaking Households	4%	3%	75	5%	71
Less Than High School Education	25%	10%	91	12%	87
Under Age 5	10%	6%	86	6%	86
Over Age 64	12%	16%	38	17%	36
Low Life Expectancy	23%	19%	80	20%	78

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	3
Water Dischargers	23
Air Pollution	41
Brownfields	2
Toxic Release Inventory	7

Other community features within defined area:

Schools	6
Hospitals	1
Places of Worship	32

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	19%	80	20%	78
Heart Disease	6.6	5.3	82	6.1	62
Asthma	13.8	9.9	96	10	98
Cancer	5	6.1	24	6.1	24
Persons with Disabilities	20.1%	11.8%	92	13.4%	86

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	61	12%	43
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	30%	11%	93	14%	88
Lack of Health Insurance	8%	6%	75	9%	55
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

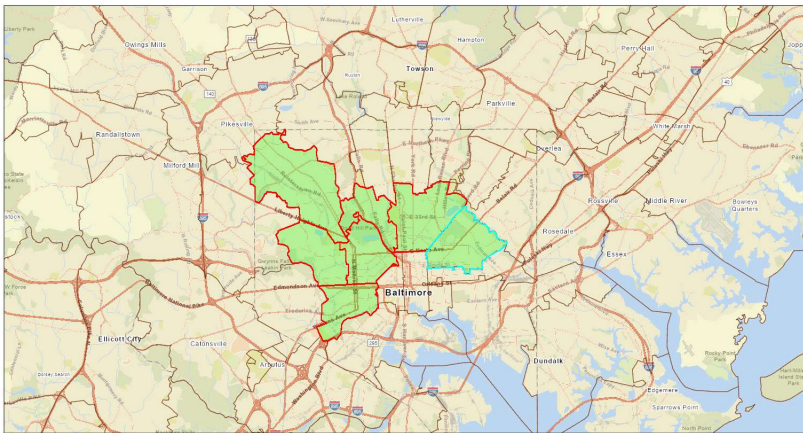
Baltimore, MD

the User Specified Area

Population: 29,155

Area in square miles: 3.48

A3 Landscape



March 24, 2024
Project 5 21215 21217
Project 6 21223 21216 ZIP Codes

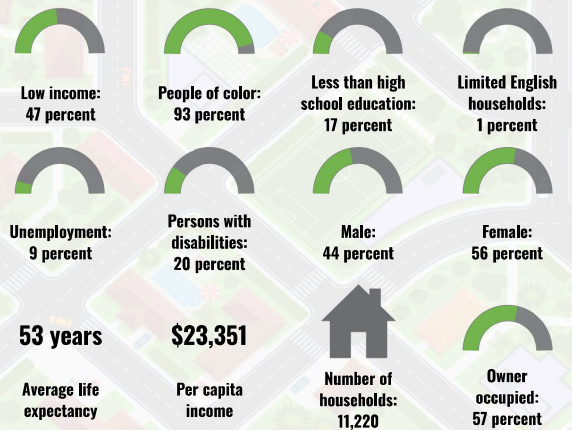
0 1.25 2.5 5 mi
0 2.25 4.5 9 km

City of Baltimore, Baltimore County Government, VDOT, EPA, US Census Bureau, USGS, NOAA, USFWS, USFWS, USFWS

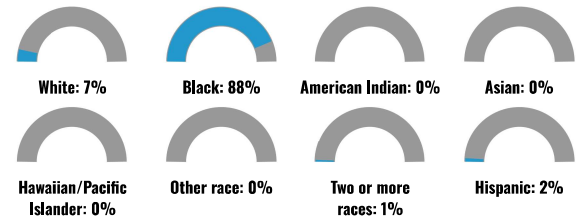
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	95%
Spanish	3%
Total Non-English	5%

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

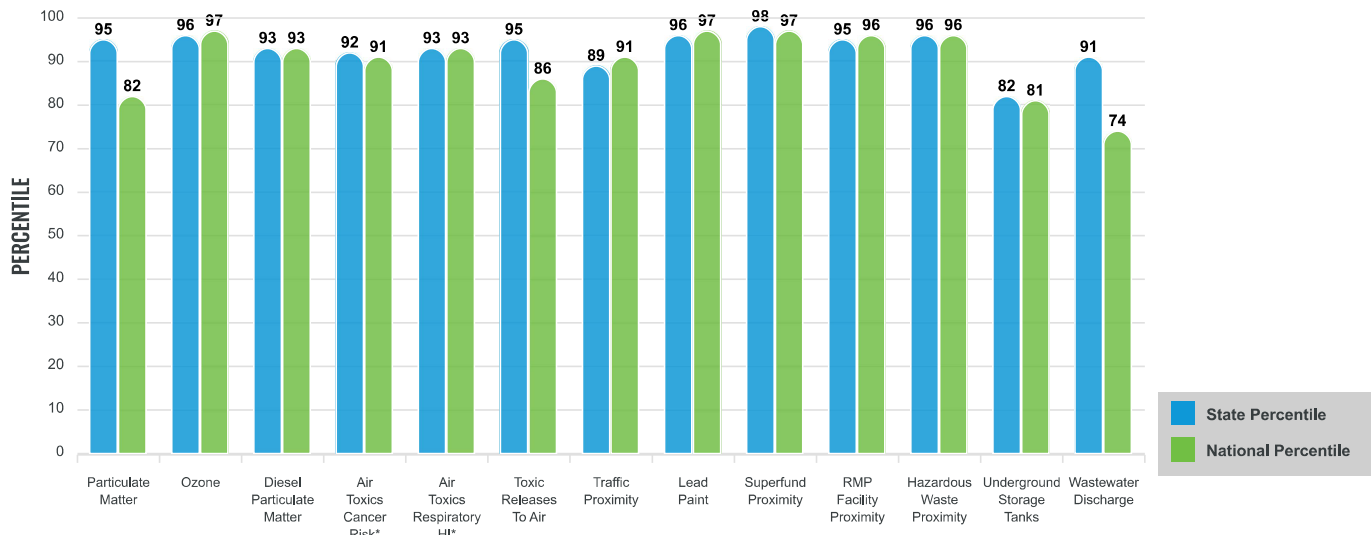
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

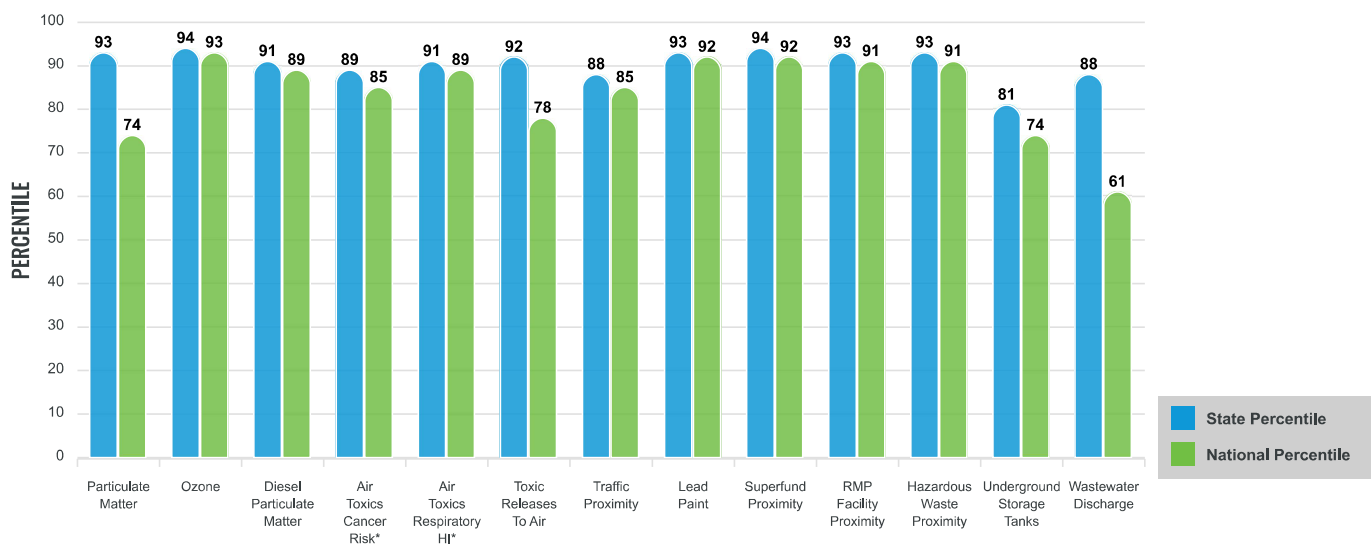
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	91	8.08	50
Ozone (ppb)	70.8	66	89	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.386	0.288	79	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	780	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	250	180	76	210	79
Lead Paint (% Pre-1960 Housing)	0.84	0.32	90	0.3	94
Superfund Proximity (site count/km distance)	0.38	0.13	94	0.13	93
RMP Facility Proximity (facility count/km distance)	1.6	0.42	92	0.43	94
Hazardous Waste Proximity (facility count/km distance)	7.3	2.1	93	1.9	93
Underground Storage Tanks (count/km ²)	2.2	1.9	69	3.9	61
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00057	1.2	64	22	44
SOCIOECONOMIC INDICATORS					
Demographic Index	70%	36%	92	35%	90
Supplemental Demographic Index	20%	12%	88	14%	78
People of Color	93%	49%	84	39%	90
Low Income	47%	22%	89	31%	78
Unemployment Rate	9%	6%	79	6%	77
Limited English Speaking Households	1%	3%	58	5%	57
Less Than High School Education	17%	10%	83	12%	76
Under Age 5	5%	6%	52	6%	53
Over Age 64	13%	16%	43	17%	41
Low Life Expectancy	23%	19%	82	20%	81

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	15
Air Pollution	80
Brownfields	8
Toxic Release Inventory	5

Other community features within defined area:

Schools	12
Hospitals	1
Places of Worship	54

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	19%	82	20%	81
Heart Disease	6.3	5.3	77	6.1	54
Asthma	13.5	9.9	96	10	97
Cancer	5.1	6.1	30	6.1	27
Persons with Disabilities	19.3%	11.8%	90	13.4%	84

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	45	12%	32
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	19%	11%	81	14%	71
Lack of Health Insurance	6%	6%	65	9%	45
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

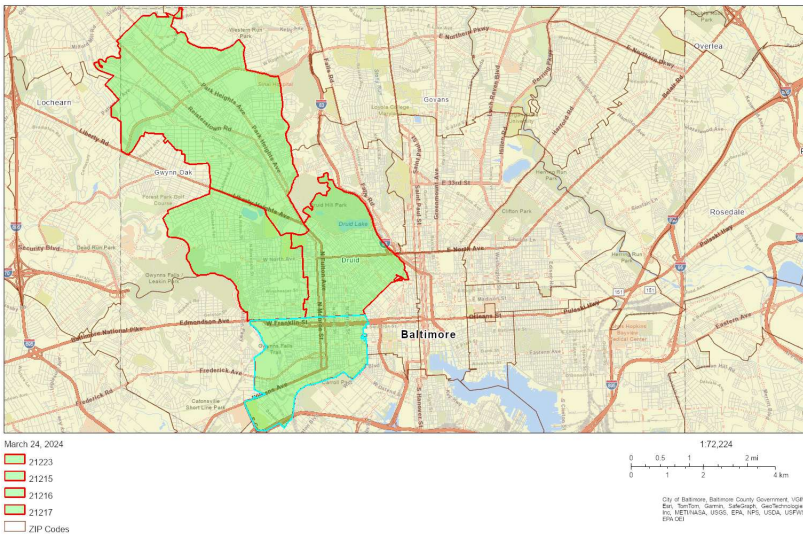
Baltimore, MD

the User Specified Area

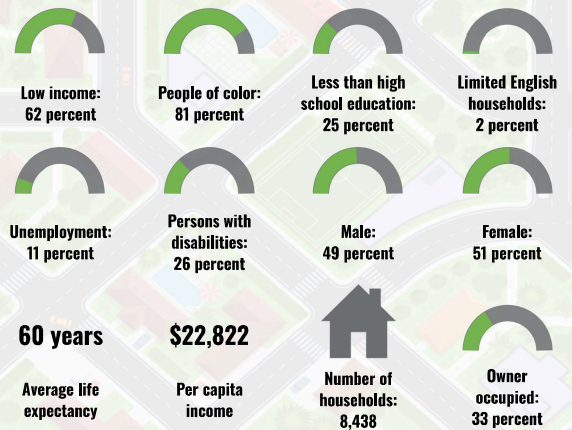
Population: 20,229

Area in square miles: 2.57

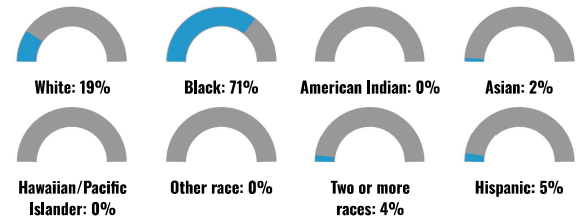
A3 Landscape



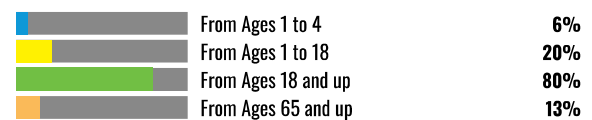
COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	89%
Spanish	5%
French, Haitian, or Cajun	2%
Other Indo-European	1%
Vietnamese	1%
Other and Unspecified	2%
Total Non-English	11%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

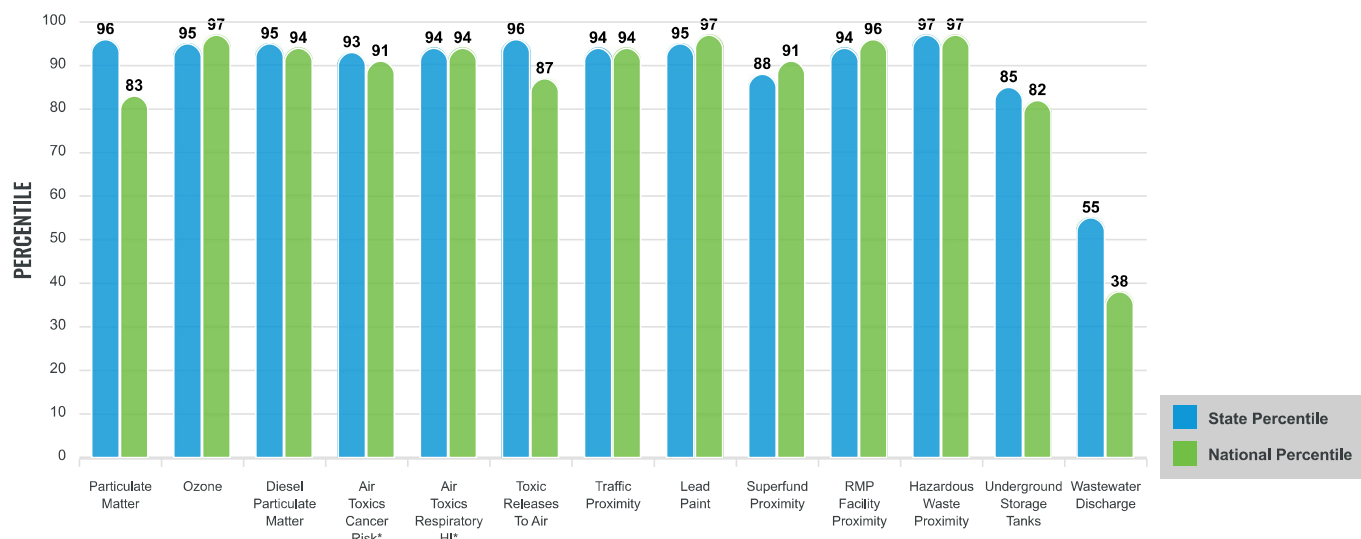
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

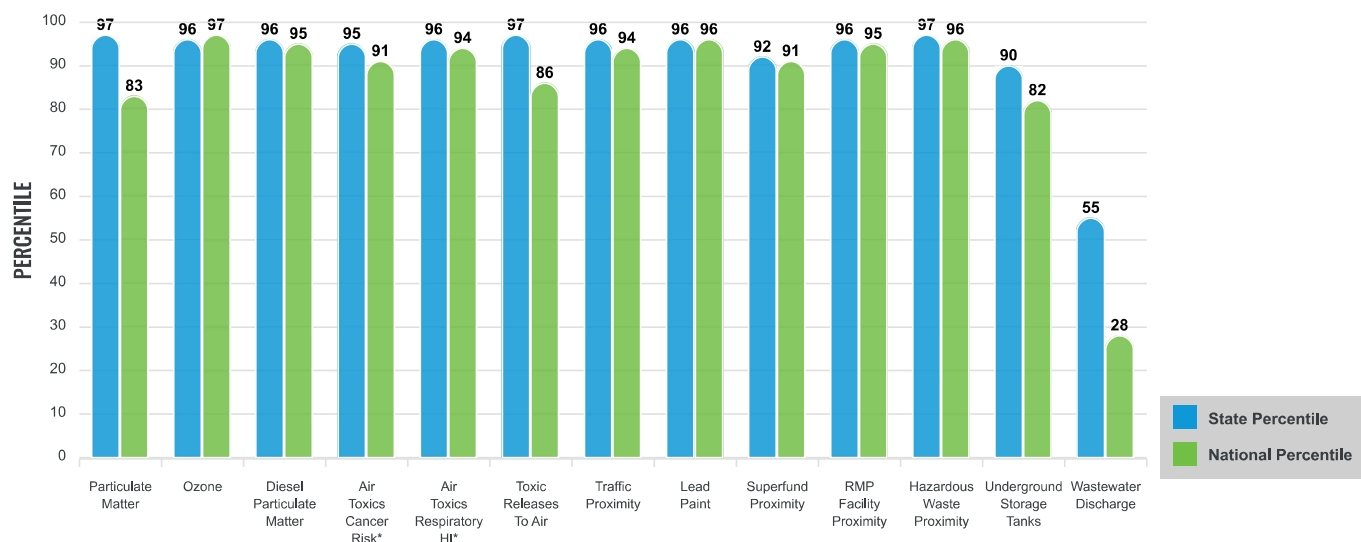
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.22	7.84	96	8.08	50
Ozone (ppb)	70	66	82	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.408	0.288	88	0.261	84
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	790	430	85	4,600	55
Traffic Proximity (daily traffic count/distance to road)	390	180	86	210	87
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.11	0.13	63	0.13	70
RMP Facility Proximity (facility count/km distance)	1.2	0.42	87	0.43	91
Hazardous Waste Proximity (facility count/km distance)	9.8	2.1	96	1.9	96
Underground Storage Tanks (count/km ²)	3.6	1.9	81	3.9	71
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00033	1.2	60	22	39
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	93	35%	91
Supplemental Demographic Index	26%	12%	95	14%	90
People of Color	81%	49%	75	39%	84
Low Income	62%	22%	94	31%	89
Unemployment Rate	11%	6%	87	6%	85
Limited English Speaking Households	2%	3%	63	5%	62
Less Than High School Education	25%	10%	92	12%	87
Under Age 5	6%	6%	60	6%	60
Over Age 64	13%	16%	39	17%	37
Low Life Expectancy	25%	19%	90	20%	92

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	25
Air Pollution	
.	110
Brownfields	2
Toxic Release Inventory	3

Other community features within defined area:

Schools	10
Hospitals	2
Places of Worship	46

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	25%	19%	90	20%	92
Heart Disease	7.4	5.3	90	6.1	74
Asthma	14	9.9	96	10	98
Cancer	5	6.1	27	6.1	26
Persons with Disabilities	24.1%	11.8%	96	13.4%	94

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	2%	7%	33	12%	24
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	24%	11%	88	14%	81
Lack of Health Insurance	9%	6%	80	9%	61
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

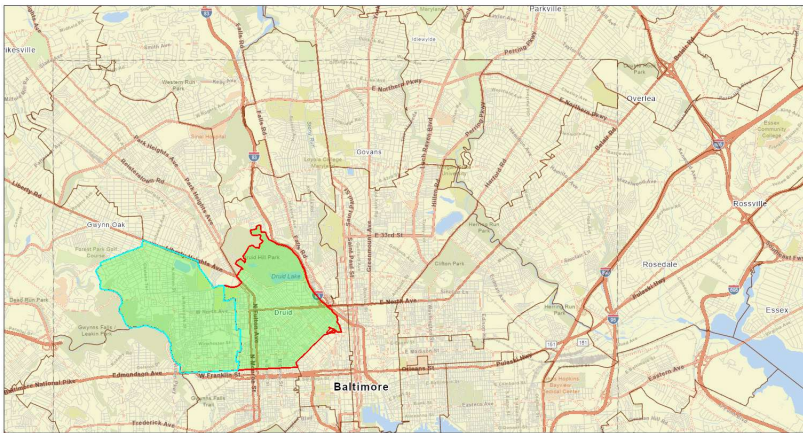
Baltimore, MD

the User Specified Area

Population: 28,096

Area in square miles: 3.29

A3 Landscape

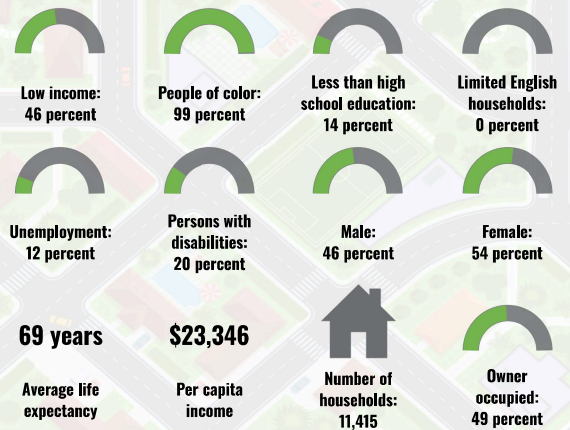


March 24, 2024
21216
21217
ZIP Codes

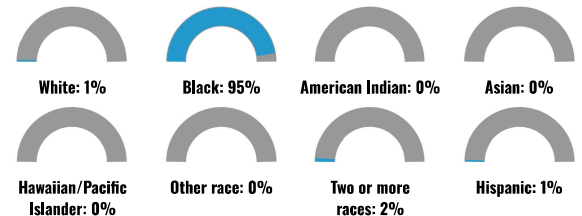
1:72,224
0 0.5 1 2 4 mi
0 0.5 1 2 4 km

City of Baltimore, Baltimore County Government, VDOT, Esri, Garmin, Google, Mapbox, OpenStreetMap, US, USGS, NOAA, EPA, NPS, USGS, USFWS, EPA, etc.

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	1%
French, Haitian, or Cajun	1%
Other and Unspecified	1%
Total Non-English	3%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

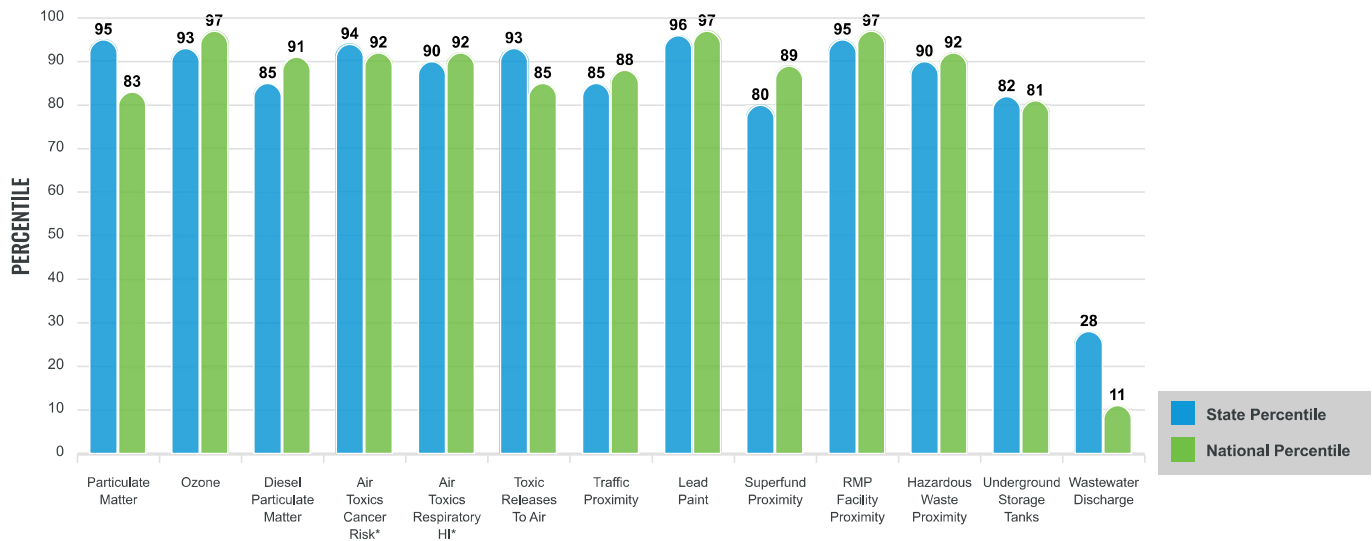
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

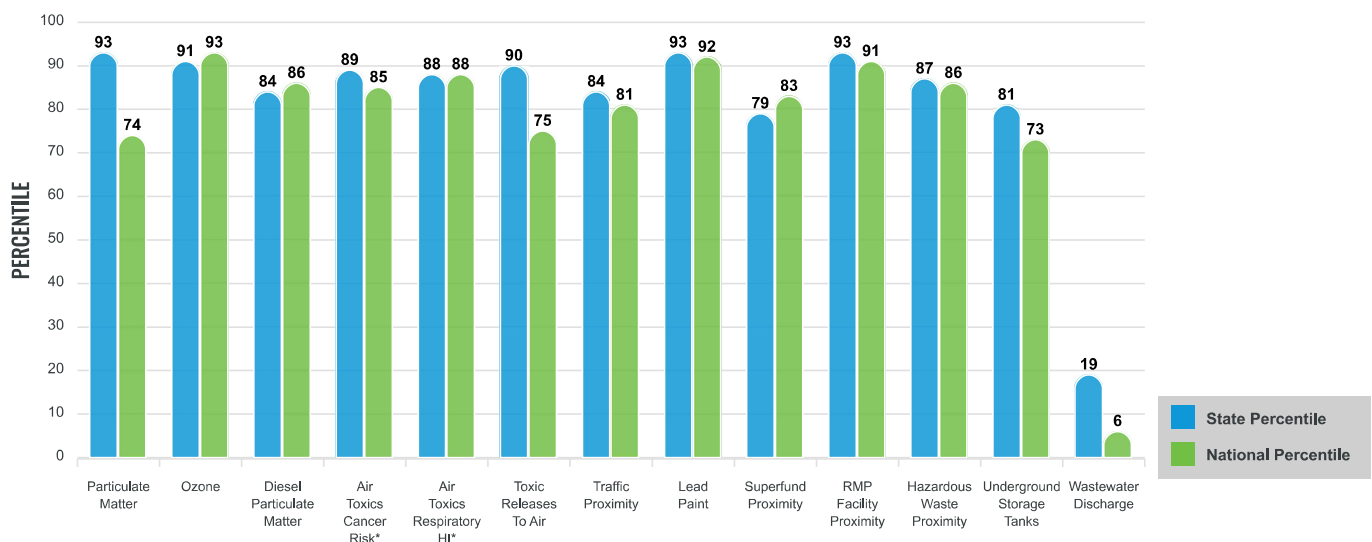
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	90	8.08	49
Ozone (ppb)	69.3	66	74	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.332	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.39	0.34	7	0.31	31
Toxic Releases to Air	600	430	76	4,600	49
Traffic Proximity (daily traffic count/distance to road)	210	180	72	210	76
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.089	0.13	52	0.13	63
RMP Facility Proximity (facility count/km distance)	1.7	0.42	93	0.43	94
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	3	1.9	76	3.9	67
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2E-07	1.2	14	22	3
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	94	35%	91
Supplemental Demographic Index	20%	12%	88	14%	79
People of Color	99%	49%	94	39%	96
Low Income	46%	22%	88	31%	76
Unemployment Rate	12%	6%	89	6%	87
Limited English Speaking Households	0%	3%	0	5%	57
Less Than High School Education	14%	10%	76	12%	69
Under Age 5	6%	6%	62	6%	62
Over Age 64	14%	16%	48	17%	45
Low Life Expectancy	29%	19%	96	20%	98

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	14
Air Pollution	63
Brownfields	0
Toxic Release Inventory	1

Other community features within defined area:

Schools	16
Hospitals	0
Places of Worship	39

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	29%	19%	96	20%	98
Heart Disease	7	5.3	87	6.1	67
Asthma	13.4	9.9	94	10	97
Cancer	5.7	6.1	41	6.1	37
Persons with Disabilities	18.6%	11.8%	88	13.4%	81

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	43%	11%	97	14%	96
Lack of Health Insurance	7%	6%	72	9%	51
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

the User Specified Area

Population: 28,096

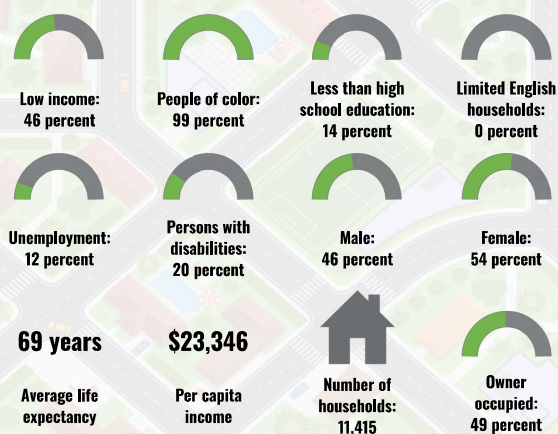
Area in square miles: 3.29

A map of Baltimore, Maryland, showing the location of the Greenbelt area. The Greenbelt is highlighted in green and outlined in red. Major roads like I-83, I-67, and I-83 are shown. Surrounding areas like Parkville, Rossville, and Essex are labeled.

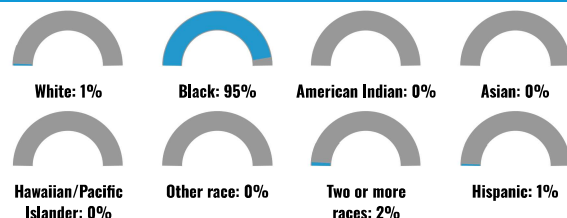
1:72,224

City of Baltimore, Baltimore County Government, VGI
Eri, TomTom, Garmin, SafeGraph, GeoTechnologies
Inc, METANASA, USGS, EPA, NPS, USDA, USFWS
2016-2021

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGE	PERCENT
English	97%
Spanish	1%
French, Haitian, or Cajun	1%
Other and Unspecified	1%
Total Non-English	3%

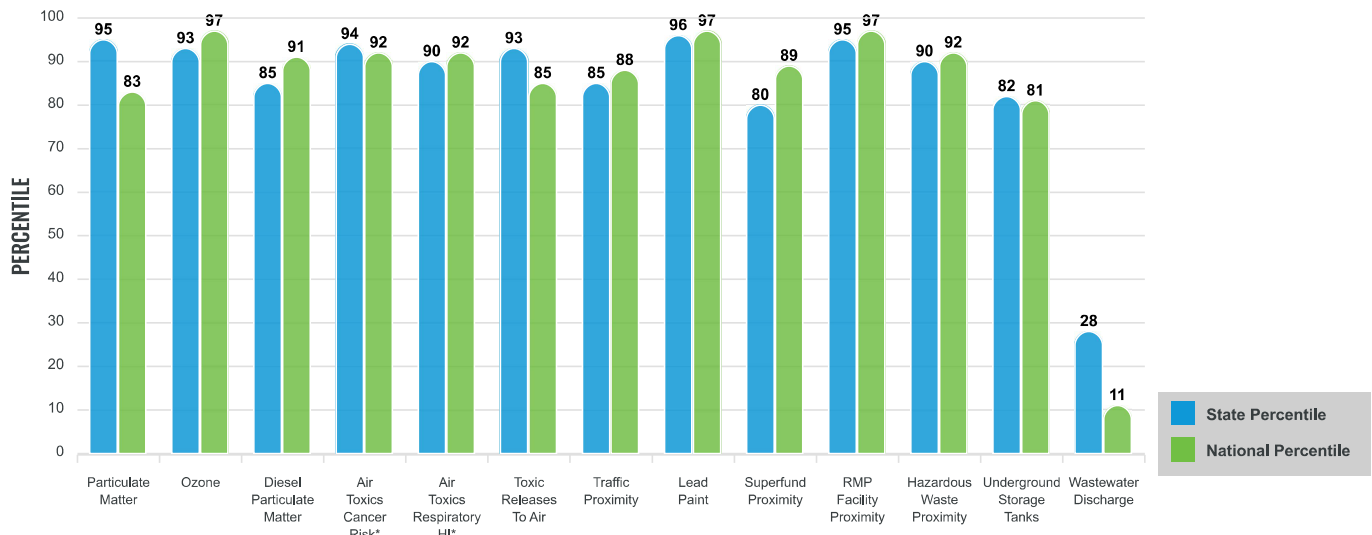
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

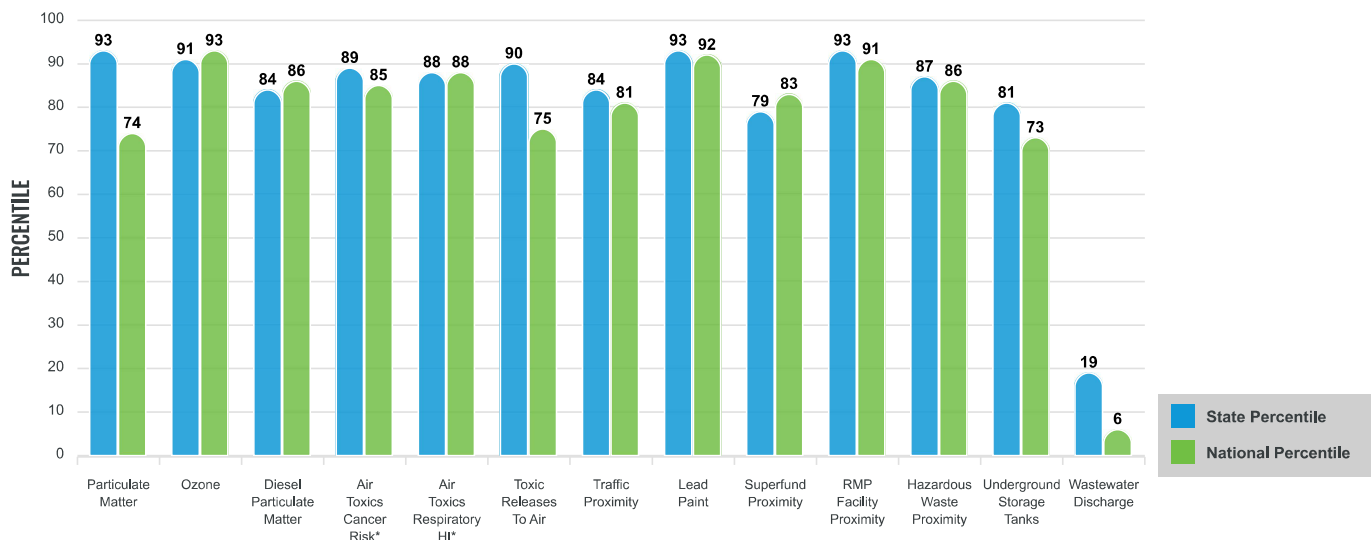
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	90	8.08	49
Ozone (ppb)	69.3	66	74	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.332	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.39	0.34	7	0.31	31
Toxic Releases to Air	600	430	76	4,600	49
Traffic Proximity (daily traffic count/distance to road)	210	180	72	210	76
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.089	0.13	52	0.13	63
RMP Facility Proximity (facility count/km distance)	1.7	0.42	93	0.43	94
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	3	1.9	76	3.9	67
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2E-07	1.2	14	22	3
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	94	35%	91
Supplemental Demographic Index	20%	12%	88	14%	79
People of Color	99%	49%	94	39%	96
Low Income	46%	22%	88	31%	76
Unemployment Rate	12%	6%	89	6%	87
Limited English Speaking Households	0%	3%	0	5%	57
Less Than High School Education	14%	10%	76	12%	69
Under Age 5	6%	6%	62	6%	62
Over Age 64	14%	16%	48	17%	45
Low Life Expectancy	29%	19%	96	20%	98

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	14
Air Pollution	63
Brownfields	0
Toxic Release Inventory	1

Other community features within defined area:

Schools	16
Hospitals	0
Places of Worship	39

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	29%	19%	96	20%	98
Heart Disease	7	5.3	87	6.1	67
Asthma	13.4	9.9	94	10	97
Cancer	5.7	6.1	41	6.1	37
Persons with Disabilities	18.6%	11.8%	88	13.4%	81

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	43%	11%	97	14%	96
Lack of Health Insurance	7%	6%	72	9%	51
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

APPENDIX C: OTHER ATTACHMENTS

APPENDIX C2: DRAFT MEMORANDUM OF AGREEMENT

THIS PAGE IS INTENTIONALLY LEFT BLANK

MEMORANDUM OF AGREEMENT

FOR THE

REDUCE COALITION PROJECT

BETWEEN

THE COALITION PARTNERS OF THE

THE BALTIMORE-COLUMBIA-TOWSON METROPOLITAN STATISTICAL AREA (MSA)

THIS MEMORANDUM OF AGREEMENT (hereinafter “MOA”) is made this ____ day of _____, 2024 (“Effective Date”), by and between the coalition members of the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA), which includes , the Mayor and City Council of Baltimore, a municipal corporation of the State of Maryland, acting by and through its Department of Planning and its Office of Sustainability and its Department of Public Works (the “City”), the Resilience Authority of Annapolis & Anne Arundel County, the Department of Environmental Protection and Sustainability in Baltimore County, Carroll County, Harford County, Howard County Maryland, a body corporate and politic (“Howard County”)and Queen Anne’s County (collectively “the MSA Coalition Partners” or “Parties”).

A. THE MSA COALITION PARTNERS:

LEAD COALITION PARTNER APPLICANT: The Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works

COALITION MEMBERS

- The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works (the “City”);
- The Resilience Authority of Annapolis & Anne Arundel County, representing both the City of Annapolis and Anne Arundel County;
- The Department of Environmental Protection and Sustainability in Baltimore County;
- Carroll County;
- Harford County;
- Howard County; and
- Queen Anne’s County.

B. PURPOSE:

The purpose of this MOA is to memorialize the collaboration of the MSA Coalition Partners and to outline the agreed upon roles, of the MSA Coalition Partners, to include the responsibilities and commitments of each MSA Coalition Partner to the Climate Pollution Reduction Grant (CPRG) competition proposal.

C. AGREED UPON ROLES, RESPONSIBILITIES AND COMMITMENTS OF EACH MSA COALITION PARTNER:

Each of the MSA Coalition Partners agree to the following:

I. THE MAYOR AND CITY COUNCIL OF BALTIMORE BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that assist the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

II. THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that assist the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

1. III. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants

2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- A. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in Baltimore County in pursuit of the target emission reduction;
- B. Deploy community-level investments, creating synergies and alignment to the County's enterprise strategic plan goals and master plan goals, that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior change;
- C. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition competitive CPRG proposal. This will focus on preventing, diverting and recycling, reusing and repurposing would-be waste materials into the local economy; and
- D. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction model.

IV. CARROLL COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants

2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
- b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
- c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
- d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
- e. Advance a workforce primed to tackle complex climate challenges.

V. HARFORD COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants.
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

VI. HOWARD COUNTY:

1. Supporting, subject to appropriation and to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:
 - a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
 - b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
 - c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
 - d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
 - e. Advance a workforce primed to tackle complex climate challenges.

VII. QUEEN ANNE'S COUNTY:

1. Supporting, to the extent resources, capacity and time allows, the activities, inputs and outputs that help the State of Maryland and each local government, as MSA Coalition Partners, to reduce the emission of greenhouse gases, criteria air pollutants and where applicable, other co-pollutants
2. Advancing the actions detailed in the CPRG competition proposal including fundamental goals to:

- a. Authentically, meaningfully engage communities, stakeholders, constituencies and individuals in the Baltimore-Columbia-Towson MSA in pursuit of the target emission reductions;
- b. Deploy community-level investments that mitigate the effects of climate change, reduce climate pollution and support positive climate behavior changes;
- c. Implementing waste reduction and diversion approaches outlined in the REDUCE Coalition CPRG competition proposal;
- d. Contribute to pilots, projects, programs, initiatives or other efforts that support the financing of climate pollution reduction models; and
- e. Advance a workforce primed to tackle complex climate challenges.

D. OPERATING MODEL FOR THE MSA COALITION PARTNERS:

REDUCE Coalition Project Operating Model

The Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works will lead the MSA Coalition Partners on the REDUCE Coalition Project. The MSA Coalition Partners will create a steering committee made up of local representatives chosen within each of the MSA Coalition Partners' jurisdiction, and each local representative will be responsible for directing the work and efforts detailed under the CPRG competition proposal in their respective jurisdictions. Each individual MSA Coalition Partner participating in the REDUCE Coalition Project will have their respective local representatives participate on a bi-weekly REDUCE Coalition in order to coordinate the collective efforts of each MSA Coalition Partner. As the LEAD APPLICANT, the City will be responsible for scheduling routine meetings, drafting meeting agendas and minutes, and other key administrative tasks needed to communicate in an effective, timely, and efficient manner.

E. MSA COALITION PARTNERS WILL BENEFIT THE PROJECT THROUGH THE FOLLOWING COLLABORATION AND PARTNERSHIPS:

The seven (7) jurisdictions in the MSA Coalition Partners will each contribute to the REDUCE Coalition Project's geographic diversity, unique governance structures for addressing climate changes, and provide a combined level of experience spanning several decades. Specifically, the REDUCE Coalition Project model will benefit this project by:

- Leveraging collective impact from each MSA Coalition Partner on a regional scale;
- Un-siloing climate mitigation investments across the region;
- Replicating proven climate pollution reduction activities with proven impact across the region;
- Learning from peers in each local government; and
- Maximizing current and future climate investments.

F. MSA COALITION PARTNERS RESOURCES FOR CONTRIBUTIONS:

Each MSA Coalition Partner will contribute the following to the REDUCE Coalition Project:

- One project manager/lead must be able to dedicate at least 5% FTE to the REDUCE Coalition workplan implementation;

- Data, technical analyses and/or research related to past, current, or future climate pollution reduction or related work;
- Applicable in-kind contributions;
- Training or facilitation support as needed; and
- Other related services.

H. RESPONSIBILITY STATEMENT FROM THE LEAD APPLICANT:

The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works, will take full responsibility for the REDUCE Coalition Project by meeting the specified goals, deliverables and performance measures and will be accountable to the Environmental Protection Agency (EPA) for effectively carrying out the full scope of work outlined in the CPRG competition proposal . The Mayor and City Council of Baltimore by and through its Department of Planning and its Office of Sustainability and its Department of Public Works will take full responsibility for the proper fiscal management of the CPRG grant, if awarded.

I. RESPONSIBILITY STATEMENT FROM REMAINING MSA COALITION PARTNERS OTHER THAN THE LEAD APPLICANT:

The remaining MSA Coalition Partners , including The Resilience Authority of Annapolis & Anne Arundel County (representing both the City of Annapolis and Anne Arundel County), the Department of Environmental Protection and Sustainability in Baltimore County, Carroll County, Harford County, Howard County and Queen Anne’s County, will take full responsibility for the REDUCE Coalition Project meetings, the specified goals, deliverables and performance measure and will be accountable to the EPA for effectively carrying out the full scope of work outlined in the CPRG competition proposal . The MSA Coalition Partners will comply with the Mayor and City Council of Baltimore, by and through its Department of Planning and its Office of Sustainability and its Department of Public Works’ parameters for the proper fiscal management of the CPRG grant, if awarded.

J. TERM:

The term of this MOA shall begin upon the date the last Party signs this MOA (the “Effective Date”), and terminate upon the execution and approval by the Board of Estimates of Baltimore City (the “Board”) of a subsequent agreement, unless terminated earlier pursuant to this MOA, and is contingent on the EPA grant being awarded to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners. No work may begin under this MOA until all Parties have signed it.

K. EXPENSES:

Each MSA Coalition Partner shall be responsible for its own expenses up until the date the subsequent agreement for such services is agreed to between the MSA Coalition Partners. Any subsequent agreement for the provision of services is contingent on approval of the Board of Estimates of Baltimore City and the EPA grant being awarded to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners for such services.

L. INDEMNIFICATION:

Each MSA Coalition Partner shall mutually indemnify, defend and hold harmless each other , their respective elected/appointed officials, employees, agents, and volunteers from any and all claims, demands, suits, and actions, including attorneys’ fees and court costs, connected therewith, brought against the other MSA Coalition Partner(s) their respective elected/appointed officials, employees, agents and volunteers, arising as a result of any activities caused by the direct or indirect, willful, or negligent act or omission of any of the other MSA Coalition Partner(s) , its officials, employees, agents, volunteers or contractors arising out of this MOA.

M. LIABILITY:

Subject to any limitations imposed by law, each of the MSA Coalition Partners agree that each of the MSA Coalition Partners shall be responsible for its own actions and omissions, pursuant to the performance of this MOA, and no MSA Coalition Partner(s) shall try to hold the other MSA Coalition Partner(s) liable with respect to any matter not arising from the other MSA Coalition Partner(s)’ actions or omissions.

N. COMPLIANCE WITH LAWS:

Each MSA Coalition Partner shall comply with all federal, state, and local laws applicable to this MOA.

O. TERMINATION:

This MOA shall automatically terminate upon the approval date of the subsequent agreement between the MSA Coalition Partners for the provision of such services. Any of the MSA Coalition Partners may terminate this MOA by giving to the other MSA Coalition Partners written notification thereof at least thirty (30) days prior to termination. This MOA shall be void if the EPA does not award the grant to the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) and/or MSA Coalition Partners for provision of such services or the Board of Estimates of Baltimore City does not approve of the subsequent agreement for services.

P. NOTICES:

Any notices required or permitted under this MOA shall be in writing and mailed, postage prepaid, to the other MSA Coalition Partners by certified mail, return receipt requested, or hand delivered, with receipt obtained therefore, to the following:

MAYOR AND CITY COUNCIL OF BALTIMORE CITY, BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS	Notice Address: 417 E. FAYETTE STREET, 8TH FLOOR BALTIMORE, MD 21202
--	--

THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL BALTIMORE COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY	Notice Address: HERITAGE COMPLEX 2666 4 HERITAGE TRAINING ROOM RIVA ROAD ANNAPOLIS, MD 21401
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY	Notice Address: 111 W. CHESAPEAKE AVE, STE 305 TOWSON, MD 21204
CARROLL COUNTY	Notice Address: 225 NORTH CENTER STREET WESTMINSTER, MD 21157
HARFORD COUNTY	Notice Address: 220 S. MAIN STREET BEL AIR, MD 21014
HOWARD COUNTY	Notice Address: 9200 BERGER ROAD COLUMBIA, MD 21046
QUEEN ANNE’S COUNTY	Notice Address: QUEEN ANNE'S COUNTY PLANNING AND ZONING 110 VINCIT ST., SUITE 104 CENTREVILLE, MD 21617

Q. AMENDMENTS:

The MSA Coalition Partners may amend this MOA only by written amendment, signed by all MSA Coalition Partners

R. GOVERNING LAW AND VENUE:

This MOA and the rights and obligations of the MSA Coalition Partners hereunder shall be governed by and construed in accordance with the laws of the State of Maryland and Baltimore City. Furthermore, the Parties hereto agree that any suits or actions brought by any party against the other shall be brought in a court of competent jurisdiction in Baltimore City.

S. INVALIDITY OF PARTICULAR PROVISIONS:

If any term or provision of this MOA or the application thereof to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this MOA shall be valid and be enforced to the fullest extent permitted by law.

T. NO WAIVER:

The waiver of any terms of this MOA, or the failure of the Parties to insist on strict compliance or prompt performance of any terms of this MOA, followed by the acceptance of such performance thereafter, shall not constitute or be construed as a waiver or relinquishment of any right by Parties to enforce all terms strictly in the event of a continuous or subsequent default.

U. RELATIONSHIPS BETWEEN PARTIES:

Nothing in this MOA shall be construed to create an employment relationship between the Parties including any staff or contractor that is assigned to perform any work related to this MOA or subsequent definitive agreement.

V. ENTIRE MEMORANDUM OF AGREEMENT:

This MOA constitutes the entire, full and final understanding between the MSA Coalition Partners hereto and none of the MSA Coalition Partners shall be bound by any representation, statement, promise, or agreement not expressly set forth herein.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the MSA Coalition Partners, to whom are officially authorized to sign on behalf of their respective local jurisdiction, hereby evidence their agreement to the above terms and conditions by having executed this MEMORANDUM OF AGREEMENT.

MAYOR AND CITY COUNCIL OF BALTIMORE CITY, BY AND THROUGH ITS DEPARTMENT OF PLANNING AND ITS OFFICE OF SUSTAINABILITY AND ITS DEPARTMENT OF PUBLIC WORKS	Authorized Signatory	Date of Signature

THE RESILIENCE AUTHORITY OF ANNAPOLIS & ANNE ARUNDEL BALTIMORE COUNTY, REPRESENTING BOTH THE CITY OF ANNAPOLIS AND ANNE ARUNDEL COUNTY	Authorized Signatory	Date of Signature
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY IN BALTIMORE COUNTY	Authorized Signatory	Date of Signature
CARROLL COUNTY	Authorized Signatory	Date of Signature
HARFORD COUNTY	Authorized Signatory	Date of Signature
HOWARD COUNTY	Authorized Signatory	Date of Signature
QUEEN ANNE'S COUNTY	Authorized Signatory	Date of Signature

APPENDIX D: OPTIONAL DOCUMENTS

APPENDIX D4: LETTERS OF COMMITMENT

THIS PAGE IS INTENTIONALLY LEFT BLANK



Baltimore City
Office of Emergency Management
501 N. Calvert St, 3rd Floor
Baltimore, Maryland 21202
(410) 396-6188

Brandon M. Scott
Mayor
City of Baltimore

Joey Henderson
Emergency Manager
Office of Emergency Management

March 12, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of The Baltimore City Office of Emergency Management, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made, and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.



Baltimore City
Office of Emergency Management
501 N. Calvert St, 3rd Floor
Baltimore, Maryland 21202
(410) 396-6188

Brandon M. Scott
Mayor
City of Baltimore

Joey Henderson
Emergency Manager
Office of Emergency Management

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Joey Henderson at joey.henderson@baltimorecity.gov. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

Joey Henderson

Joey Henderson

Director



1001 E. Fayette Street • Baltimore, Maryland 21202
Brandon M. Scott, Mayor
Ihuoma Emenuga, MD, MPH, MBA
Commissioner of Health

March 27, 2024

To: The Baltimore Office of Sustainability and Department of Public Works
Subject: Letter of Support for the Baltimore Metropolitan Statistical Area's CPRG Proposal

Dear REDUCE Coalition:

On behalf of the Baltimore City Health Department (BCHD), I write to express our support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which Baltimore City and the six counties (Anne Arundel, Baltimore, Carroll, Harford, Howard and Queen Anne's) in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

BCHD has collaborated with the Baltimore Office of Sustainability on several climate and health related initiatives, including work under the Heat Mitigation Working Group to strengthen Baltimore City climate goals through Mayor Scott Administration's Sustainability & Resiliency Subcabinet. We are eager to support the REDUCE proposal to advance understanding and awareness of climate pollution in the city and region. As our agency works to better improve the health of all Baltimoreans, we are particularly interested in helping to support measures under the Baltimore MSA's proposal that align with goals related to extreme heat.

Combined, the activities detailed in the REDUCE proposal will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State's proposal to create substantial impact on the region. The proposed activities will help safeguard the nearly 3 million people living in our MSA, the 20th largest in the nation, by better preparing to take near and longer-term action to mitigate climate pollution risks in climate vulnerable areas of the Chesapeake Bay region.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact BCHD Chief of Staff & Chief Operating Officer, Kelleigh Eastman at Kelleigh.eastman@baltimorecity.gov. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Sincerely,

A handwritten signature in black ink, appearing to read "KE", written over a horizontal line.

Kelleigh Eastman
Chief of Staff & Chief Operating Officer
Baltimore City Health Department



March 28, 2024

Director Ava Richardson
Baltimore Office of Sustainability
417 E. Fayette Street, 8th Floor
Baltimore City, MD 21202

RE: Letter of Commitment for the Baltimore Metropolitan Statistical Area's (MSA) Climate Pollution and Reduction Grant (CPRG) Proposal, Opportunity # EPA-R-OAR-CPRGT-23-09

Dear Director Richardson,

I am writing to express the Department of General Services' commitment to and support of the Baltimore Metropolitan Statistical Area's "Reduce, Electrify, Decarbonize, Utilize Clean Energy" (REDUCE) proposal. The REDUCE proposal undertakes urgent actions for climate pollution reduction at the community level to support our collective and individual climate goals. The proposal is grounded in equity, focused on ideation with the community to ensure that climate pollution reduction investments encourage local actions and foster regional systems change while addressing environmental justice challenges faced by underserved and overburdened communities.

The Department of General Services is Baltimore City's lead for the decarbonization of its own buildings and fleet. By providing exemplary services to city government and examples of decarbonization strategies, the Department will partner with the Baltimore Office of Sustainability and other REDUCE partners to lend expertise and assistance, ensuring the success of REDUCE projects. The Department has worked alongside REDUCE partners through the Baltimore Metropolitan Council for regional energy procurement and renewable energy strategy for decades, and collaborates daily with the Office of Sustainability on city-focused climate mitigation and resilience strategies.

My team and I are in full support of the REDUCE application and believe that it will transform Baltimore and our region's ability to reach our collective climate goals. Please do not hesitate to reach out with any questions, and we strongly hope that the EPA fully funds the REDUCE application.

Sincerely,

Berke Attila

Berke Attila
Director
Department of General Services

cc:

Terrel Chesson, Deputy Director, Department of General Services
Julia Kalloz, Chief, Energy Division, Department of General Services
Jason Mathias, Deputy Chief, Energy Division, Department of General Services



March 14, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Baltimore Green Space, I write to encourage support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to take crucial, climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The resilient communities in Baltimore battle negative climate impacts and they increase each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) which I supported in reviewing. To achieve the City and State of Maryland's goal to achieve net-zero emissions by 2045, and alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state this initiative must be implemented. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction-specific programming prioritizing the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations and lay the foundation for regional circular economies of scale. REDUCE also aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce.

Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I encourage you to fully fund the REDUCE proposal. Should you wish to speak about our support of this proposal, please contact Katie Lautar at katherine@baltimoregreenspace.org. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Sincerely,

Katherine Lautar, Executive Director



March 7, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Banner Neighborhoods Community Corporation, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

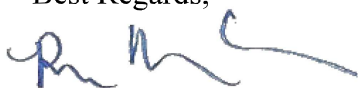
With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate

climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Robin Truiett-Theodorson at robin@bannerneighborhoods.org. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Robin Truiett-Theodorson', with a long horizontal flourish extending to the right.

Robin Truiett-Theodorson
Executive Director



March 7, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Belair-Edison Neighborhoods, Inc., I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Denitra Braham at 410-914-4245 or via email at denitra@belair-edison.org. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in blue ink, appearing to read "Denitra", followed by a horizontal line.

Denitra Braham, Executive Director



bgeSM

AN EXELON COMPANY

March 12, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

I write to express Baltimore Gas and Electric Company's (BGE) support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

Local government climate action planning and coordinated implementation is critically needed to meet the State of Maryland's goal to achieve a 60% reduction in emissions by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity – laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new untapped revenue sources to REDUCE, and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in a measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution-related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

BGE strongly urges EPA to fully fund the REDUCE proposal. Should you have questions or wish to speak about BGE's support of this proposal, please contact me at amy.chandler@bge.com. BGE looks forward to seeing the positive impact CPRG funds will have on the region.

Best Regards,

Amy Chandler
Manager, Strategic Programs
Baltimore Gas and Electric Company



March 13, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Black People Ride Bikes, Inc. as the President, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Dr. Nia Reed-Jones at blackpeopleridebikes@gmail.com. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

Dr. Nia Reed-Jones

Dr. Nia Reed-Jones

Co-Founder and President of Black People Ride Bikes, Inc.



**The Morton K. Blaustein
Department of Earth and Planetary Sciences**

301 Olin Hall / 3400 N. Charles Street
Baltimore MD 21218-2681
410-516-7135 / Fax 410-516-7933



3/11/2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of the Baltimore Social-Environmental Collaborative Urban Integrated Field Laboratory (BSEC), I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

BSEC is a \$24.8M program supported by the US Department of Energy, with a mandate to generate the science needed to support equitable climate action in Baltimore (<https://21cc.jhu.edu/research/bsec/>). BSEC has collaborated with City of Baltimore and numerous neighborhood organizations, NGOs, and local businesses in the Baltimore region to advance understanding and awareness of climate pollution in the city and region. This includes detailed mapping of air pollution, the urban heat island, flood risk, and greenhouse gas emissions across the City of Baltimore. Our continued collaboration will help to inform plans and evaluate progress, making it essential to the success of the project. We are pleased to continue to collaborate to apply research, better understand the impact of actions undertaken and, as possible, help educate a climate workforce to maximize the impact of funds invested in the REDUCE project.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact me in my role as the Principal Investigator of BSEC (zaitchik@jhu.edu). I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in blue ink, appearing to read "Ben Zaitchik", is positioned above the typed name.

Benjamin F. Zaitchik

Professor, Department of Earth and Planetary Sciences, Johns Hopkins University
Principal Investigator, The Baltimore Social-Environmental Collaborative



C.A.R.E Community Association, Inc.
219 North Chester St
Baltimore, MD 21231
Thecarecommunityassociation@yahoo.com
03/16/2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of the C.A.R.E. Community Association Inc., I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the six counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

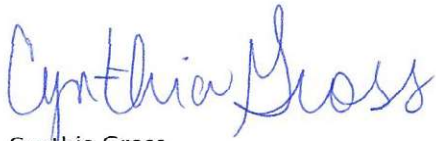
With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to

the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in blue ink that reads "Cynthia Gross". The signature is fluid and cursive, with the first name "Cynthia" and the last name "Gross" clearly legible.

Cynthia Gross,
President, C.A.R.E. Community Association, Inc.

George Collins
3915 Maine Ave
Baltimore, Maryland 21207

5 Mar 24

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of The Forest Park Communities, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

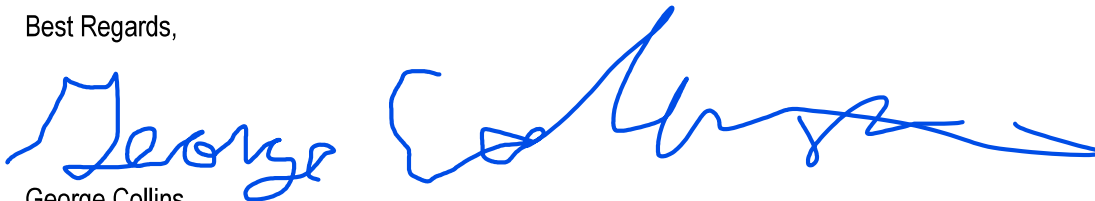
The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact George Collins at 410.258.7546. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,



George Collins
President Central Forest Park Community Association



Transportation and Urban Infrastructure Studies
Morgan State University · 1700 E. Cold Spring Lane · Baltimore, MD 21251

March 11, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Morgan State University, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland’s Climate Pollution Reduction Plan.

Morgan State has collaborated with the City of Baltimore and other regional partners to advance understanding and awareness of climate pollution in the city and region. We have worked closely with regional partners to advance sustainable transportation through our work on Baltimore City’s Complete Streets Manual, the Baltimore Social-Environmental Collective sponsored by the Department of Energy, and through our bike and transit focused projects in our University Transportation Centers. Our continued collaboration will help to inform plans and evaluate progress, making it essential to the success of the project. We are pleased to continue to collaborate to apply research, better understand the impact of actions undertaken and, as possible, help educate a climate workforce to maximize the impact of funds invested in the REDUCE project.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions’ close collaboration with the State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Dr. Celeste Chavis at celeste.chavis@gmail.com or 443-885-5061. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in black ink, appearing to read 'Celeste Chavis', with a stylized flourish at the end.

Celeste Chavis, Ph.D., PE

Professor & Chair

Transportation & Urban Infrastructure Studies

School of Engineering

Morgan State University

Coldstream Homestead Montebello Community Corporation

Transforming Environments and Minds “T.E.A.M.”

March 8, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of the Coldstream Homestead Montebello Community Corporation, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland’s Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions’ close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

CHMCC
3220-A The Alameda
Baltimore, MD 21218
Phone: 410.235.6715 Fax: 410.235.1745
Chmc.corp@gmail.com www.liveinchm.org

Coldstream Homestead Montebello Community Corporation

Transforming Environments and Minds "T.E.A.M."

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact me at chmc.corp@gmail.com or 410-235-6715. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Sincerely,



Mark Washington
Executive Director

CHMCC
3220-A The Alameda
Baltimore, MD 21218
Phone: 410.235.6715 Fax: 410.235.1745
Chmc.corp@gmail.com www.liveinchm.org

Board of Directors

Officers

Antony M. Gross

Chair

Howard R. Feldman

Vice Chair

Jared A. Rosen

Treasurer

Vanessa L. Morris

Secretary

Charter Board Member Emeritus

(1995-2008)

Members-at-Large

Kamjla A. Alexander

Andrew Baer

Samuel Boadu Jr.

Marc G. Bunting

Michael Cofsky

Clayton E. Corley, Jr.

Rita Crews

Matthew J. Freedman

Steve Hazan

Robert Frier

Johns Hopkins

Wande Kotun

Richard Mayhew

Andrea McCants

Ian Neuman

Kate Norman

Lyndsae' Peele

John Quinn

Yana Rachinskaya

Lisa G. Radov

Carol R. Schwartz

Darian Senn-Carter

Sadie Smith

Craig S. Solomon

Joshua Shodeinde

Advisory Board Members

Marc G. Bunting

Chair

Matthew Allen

Matthew A.S. Esworthy

Sherretta Peterson

W. Bryan Rakes

Jason Rubenstein

Steven Stern

JaNean Stubbs-Taylor

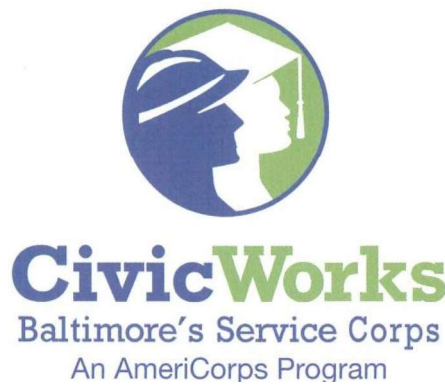
Heather Turner

Sherry Welch

Robert O. Zdenek

Dana M. Stein

President and Executive Director



March 25, 2024

TO: The Baltimore Office of Sustainability and Department of Public Works

SUBJECT: Letter of Commitment for the Baltimore Metropolitan Statistical Area's CPRG Proposal

Dear REDUCE Coalition:

On behalf of Civic Works, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the Baltimore City and the six counties (Anne Arundel, Baltimore, Carroll, Harford, Howard and Queen Anne's) in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

Civic Works has collaborated with the City of Baltimore and Howard County to advance understanding and awareness of climate pollution in the city and region. This includes Civic Works' role as Baltimore City's implementation partner for the Baltimore Energy Challenge and Baltimore Shines programs, which expand access to energy efficiency and solar services for low-income residents. Civic Works has also served as an implementation partner with Howard County for energy-focused community engagement initiatives. Our continued collaboration will help to inform plans and evaluate progress, making it essential to the success of the project. We are pleased to continue to collaborate to engage frontline communities, better understand the impact of actions undertaken through CPRG and support the behavior change needed regionally to achieve statewide, regional and local climate goals.

With CPRG funding, Civic Works will collaborate with the REDUCE partners to support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. This includes educating and supporting residents in completing home decarbonization improvements; proving energy efficiency, electrification and solar installs; and providing training to support career pathways for occupations engaged in regional decarbonization work.

Serving Baltimore's Communities and Creating Opportunities for Young Adults since 1993

Civic Works • 2701 St. Lo Drive • Baltimore, MD 21213 • (410) 366-8533 • Fax 410-366-1831 •

www.civicworks.com Funded in part by the Maryland Governor's Office on Service and Volunteerism -

AmeriCorps Program



Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Eli Allen at eallen@civicworks.com. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in black ink, appearing to read 'Eli Allen', with a long, sweeping horizontal line extending to the right.

Eli Allen
Senior Program Director

Board of Directors

Officers

Antony M. Gross

Chair

Howard R. Feldman

Vice Chair

Jared A. Rosen

Treasurer

Vanessa L. Morris

Secretary

Charter Board Member Emeritus

(1995-2008)

Members-at-Large

Kamjla A. Alexander

Andrew Baer

Samuel Boadu Jr.

Marc G. Bunting

Michael Cofsky

Clayton E. Corley, Jr.

Rita Crews

Matthew J. Freedman

Steve Hazan

Robert Frier

Johns Hopkins

Wande Kotun

Richard Mayhew

Andrea McCants

Ian Neuman

Kate Norman

Lyndsaee' Peele

John Quinn

Yana Rachinskaya

Lisa G. Radov

Carol R. Schwartz

Darian Senn-Carter

Sadie Smith

Craig S. Solomon

Joshua Shodeinde

Advisory Board Members

Marc G. Bunting

Chair

Matthew Allen

Matthew A.S. Esworthy

Sherretta Peterson

W. Bryan Rakes

Jason Rubenstein

Steven Stern

JaNean Stubbs-Taylor

Heather Turner

Sherry Welch

Robert O. Zdenek

Dana M. Stein

President and Executive Director



CivicWorks
Baltimore's Service Corps
An AmeriCorps Program

March 8, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Civic Works, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

Serving Baltimore's Communities and Creating Opportunities for Young Adults since 1993

Civic Works • 2701 St. Lo Drive • Baltimore, MD 21213 • (410) 366-8533 • Fax 410-366-1831 •

www.civicworks.com Funded in part by the Maryland Governor's Office on Service and Volunteerism -

AmeriCorps Program



The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Eli Allen at ellen@civicworks.com. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

A handwritten signature in black ink, appearing to read 'Eli Allen', with a long, sweeping horizontal line extending to the right.

Eli Allen
Senior Program Director



March 12, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Climate Access Fund, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The Climate Access Fund (CAF) was established in 2018 as a statewide 501(c)3 green bank that reduces the energy burden of low-income households in Maryland through access to community solar power. CAF uses innovative financing and project structuring to fill gaps that prevent low-income households and historically disinvested communities from accessing the multiple benefits of community solar. CAF operates as both a nonprofit green bank and solar developer. While we are statewide, our headquarters are in Baltimore, and we have already invested in and developed a Baltimore-based community solar project that will save 150 low-income households 20 - 25% on their electricity bill and, over the lifetime of the project, offset 27,000 metric tons of CO₂.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close



collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Janelle Gendrano, Deputy Director, at janelle@climateaccessfund.org. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

Lynn Heller
Chief Executive Officer
Climate Access Fund



Councilman Mark Conway
Baltimore City Council *Fourth District*

100 N. Holliday Street, Suite 550 • Baltimore, Maryland 21202
(410) 396-4830 • mark.conway@baltimorecity.gov

Environmental Protection Agency
1200 Pennsylvania Ave NW
Washington, DC 20004

March 13, 2024

Re: Letter of Support for Baltimore City Department of Planning

Dear Review Panel:

I write to express my enthusiastic support for the Reduce, Electrify, Decarbonize, Utimize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

As a local elected official, I am keenly aware of the vital need for the local government climate action planning and coordinated, interjurisdictional implementation that the REDUCE project would undertake as a means of meeting the State of Maryland's goal to achieve a 60% reduction in emissions of by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. I also recognize that CPRG funds would catalyze additional investment in climate pollution reduction as the REDUCE partners could leverage the investment to pursue other funding opportunities and work within their jurisdictions to identify new funding mechanisms to support climate pollution reduction projects.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. I look forward to seeing the positive impact CPRG funds will have on the region.

Sincerely,

A handwritten signature in black ink, reading "Mark S. Conway, Jr." in a cursive script.

Mark S. Conway, Jr.

CITY OF BALTIMORE

Room 527, City Hall
100 N. Holliday Street, Baltimore, Maryland 21202
Telephone: (410) 396-4822
Email: Phylicia.Porter@baltimorecity.gov



Councilwoman Phylcia R. L. Porter

District 10

MEMBER:

Public Safety and Government Operations
Education, Workforce, and Youth
Health, Environment, and Technology

March 11, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

I write to express my enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

As a local elected official, I am keenly aware of the vital need for the local government climate action planning and coordinated, interjurisdictional implementation that the REDUCE project would undertake as a means of meeting the State of Maryland's goal to achieve a 60% reduction in emissions of by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. I also recognize that CPRG funds would catalyze additional investment in climate pollution reduction as the REDUCE partners could leverage the investment to pursue other funding opportunities and work within their jurisdictions to identify new funding mechanisms to support climate pollution reduction projects.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Councilwoman Phylicia Porter at 410-396-4822. I look forward to seeing the positive impact CPRG funds will have on the region.

Sincerely,

 MPH, MSL - District 10
Phylicia.Porter@baltimorecity.gov



Zeke Cohen

Councilmember

First District

513 City Hall • Baltimore, MD 21202 • 410-396-4821 • ZEKE.COHEN@BALTIMORECITY.GOV

March 8, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel,

I write to express my enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

As a local elected official, I am keenly aware of the vital need for the local government climate action planning and coordinated, interjurisdictional implementation that the REDUCE project would undertake as a means of meeting the State of Maryland's goal to achieve a 60% reduction in emissions of by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. I also recognize that CPRG funds would catalyze additional investment in climate pollution reduction as the REDUCE partners could leverage the investment to pursue other funding opportunities and work within their jurisdictions to identify new funding mechanisms to support climate pollution reduction projects.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.



Zeke Cohen

Councilmember

First District

513 City Hall • Baltimore, MD 21202 • 410-396-4821 • ZEKE.COHEN@BALTIMORECITY.GOV

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact my Chief of Staff, Maggie Master, at maggie.master@baltimorecity.gov. I look forward to seeing the positive impact CPRG funds will have on the region.

Sincerely,

Councilmember Zeke Cohen, District 1

A handwritten signature in black ink, appearing to read "Zeke Ch", written over a light blue rectangular background.



DATE: 3/28/2024

TO: The Baltimore Office of Sustainability and Department of Public Works

SUBJECT: Letter of Commitment for the Baltimore Metropolitan Statistical Area's CPRG Proposal

Dear REDUCE Coalition:

On behalf of the Community Data Health Initiative (CDHI) – funded by the Robert Wood Johnson Foundation and done in collaboration with Data-Smart City Solutions at the Bloomberg Center at Harvard, the African American Mayors Association, and the Environmental Defense Fund – I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the Baltimore City and the six counties (Anne Arundel, Baltimore, Carroll, Harford, Howard and Queen Anne's) in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

CDHI has collaborated with City of Baltimore to advance understanding and awareness of climate pollution by administering a citywide survey to capture the community's experiences with air pollution and extreme heat; contributing analyses on emissions, point sources, and related health impacts; and hosting multiple cross-city convenings on localized environmental policymaking. Our continued collaboration will help to inform plans and evaluate progress, making it essential to the success of the project. We are pleased to continue to collaborate to engage frontline communities, better understand the impact of actions undertaken through CPRG and support the behavior change needed regionally to achieve statewide, regional and local climate goals.

With CPRG funding, CDHI will collaborate with the REDUCE partners to support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Stephen Goldsmith at stephen_goldsmith@hks.harvard.edu. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Goldsmith", with a long, sweeping horizontal line extending to the right.

Stephen Goldsmith

Derek Bok Professor of the Practice of Urban Policy
Director of Data-Smart City Solutions



5807 Harford Road
Baltimore, Maryland 21214

410-444-2100

info@harbel.org | www.harbel.org | Fax 410-426-1140

Executive Board Members

V.L. Perez • Board Chair
Sabrina Wiggins • Vice Chair
Janelle Cousino • Treasurer
John Harris • Secretary

Roxanne Fuentes, Executive Director

March 7, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of HARBEL Community Organization, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan. The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region. The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay. I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Roxanne Fuentes at Rfuentes@harbel.org or 410-444-2100 ext. 1012. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,


Roxanne Fuentes
Executive Director

Serving the communities of N. E. Baltimore for 47 years.



HOWARD COUNTY OFFICE OF EMERGENCY MANAGEMENT

Director
Maria Bernadzikowski

County Executive
Calvin Ball

March 28th, 2024

Re: Climate Pollution Reduction Grant Letter of Support

Dear Selection Committee,

The Howard County Office of Emergency Management, in collaboration with other Howard County Departments and Offices, is seeking avenues to establish Resiliency Hubs within the County, consistent with the goals specified in Howard County's Climate Action and Resiliency Plan. Resiliency Hubs will improve the community's ability to recover from disasters exacerbated by climate change, with the number of weather, climate, and water extremes increasing in frequency and severity each year.

In this context, the County is in the process of establishing the suitability of three County facilities as Resiliency Hubs: the Roger Carter, North Laurel, and Gary Arthur Community Centers. The latter two appear suitable for solar installations with battery storage, which would substantially prolong their ability to operate and support community needs in the case of an electric grid failure. Receiving the Climate Pollution Reduction Grant would help move these projects forward and secure the additional funds for their completion.

The implementation of Resiliency Hubs will offer a range of benefits from hazard mitigation to greenhouse gas emission reduction, to supporting overall community resiliency. We believe these Resiliency Hubs will help our community prepare, adapt, and recover from the impacts of climate change. Through utilizing the proposed solar and battery storage systems, our community centers would be able to reliably provide a place for community members to access critical services and amenities like showers and heating/cooling during widespread power outages, while reducing these facilities' carbon footprint year-round when they function as regular community centers.

We greatly appreciate this opportunity to enhance Howard County's community resilience and make progress towards our greenhouse gas reduction goals. Thank you for your consideration.

Sincerely,

DocuSigned by:

Maria Bernadzikowski

0E2E0537B154499...

Maria Bernadzikowski

Director

Howard County Office of Emergency Management



BALTIMORE-WASHINGTON LABORERS' JOINT TRAINING FUND

3200 WILKENS AVENUE • BALTIMORE, MARYLAND 21229 • 410-525-1500
4721 BOSTON WAY • LANHAM, MARYLAND 20706 • 202-726-8820
www.dcltf.org • www.baltimorelaborers.org

© 2015

March 6, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

I write to express my enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

Local government climate action planning and coordinated implementation is critically needed to meet the State of Maryland's goal to achieve a 60% reduction in emissions of by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact me at jmcdonald@bwltf.org. I look forward to seeing the positive impact CPRG funds will have on the region.

Best Regards,

Jason McDonald

Jason McDonald
Training Director



Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

March 12, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

I would like to express my support for the Reduce, Electrify, Decarbonize, and Utilize Clean Energy (REDUCE) Project proposal submitted by the seven jurisdictions in the Baltimore-Columbia-Towson Metropolitan Statistical Area, seeking a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09). This project will facilitate critical work at the local government level in support of the State of Maryland's goal to achieve a 60% reduction in emissions by 2031 and net-zero emissions by 2045.

Maryland Environmental Service is a not-for-profit business unit of the State of Maryland and is a leader in the environmental management sector with over 1,000 projects across the State, including those in solid waste management, stormwater, water and wastewater, environmental dredging and restoration, and alternative energy projects. The agency partners with municipalities, counties, the State, and sometimes the private sector to solve immediate issues or to meet long term environmental goals, like zero-waste initiatives. The MES team works in many communities and every County across the State and sees the substantial need for climate pollution reduction initiatives and the alleviation of burdens placed on environmental justice and front-line communities.

The REDUCE project is strategically designed to target identified environmental justice communities in Baltimore City and the surrounding areas, empowering them through various avenues, including implementing waste diversion and recycling initiatives, energy-efficient measures in buildings, vehicle mile travel reductions and electrification of vehicles, and strategies for municipal solid waste emissions reductions, which all align with Maryland's plan to reduce overall emissions. CPRG funds will further support sequestering carbon dioxide through nature-based solutions and foster innovative revenue sources to combat climate pollution. Additionally, the commitment to continuous workforce training ensures measurable reductions in climate pollution, benefiting communities, wildlife, and local economies. Collaboration with the State of Maryland significantly amplifies the impacts, ensuring that the nearly three million residents of the targeted area are better equipped to address climate-related impacts. This partnership lays the foundation for a sustainable and resilient future.

Environmental Protection Agency
Review Panel
Page Two

I urge the review panel to fully fund the REDUCE proposal, recognizing its unparalleled potential to drive meaningful change and foster a more sustainable future for our region. If you need more information or want to discuss our support for this proposal in more detail, please contact me at cglass@menv.com. I look forward to seeing the positive impact CPRG funds will have on Maryland communities.

Best Regards,

A handwritten signature in blue ink that reads "Charles Glass". The signature is written in a cursive, flowing style.

Charles Glass, Ph.D., P.E.
Executive Director



Y.E.S @ Langston Hughes
Community, Business, & Resource Center
5011 Arbutus Avenue, Baltimore, MD. 21215
LangstonHughesCBRC.org

March 11, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Youth Educational Services Inc operating the Langston Hughes Community, Business and Resource Center, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy - (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan. The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay. I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Shymaine Davis at Youth Educational Services, Inc. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

S. Davis

Shymaine Davis
Executive Director



March 25, 2024

TO: The Baltimore Office of Sustainability and Department of Public Works

**RE: Letter of Commitment for the Baltimore Metropolitan Statistical Area's (MSA)
Climate Pollution Reduction Grant (CPRG) Proposal**

Dear REDUCE Coalition:

This letter serves as the Maryland Department of the Environment's (MDE) strong support of the Reduce, Electrify, Decarbonize Utilize Clean Energy (REDUCE) project. Through this project, Baltimore City and the six counties (Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's) in the Baltimore-Columbia-Towson MSA seek a competitive CPRG (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's CPRG.

MDE continues to collaborate with the City of Baltimore, Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's Counties to advance understanding and awareness of climate pollution in the city and region. Throughout the CPRG Planning Grant Process, MDE works closely with the REDUCE partners to advance climate action in Maryland. We are pleased to continue collaboration to engage frontline communities, better understand the impact of actions undertaken through the CPRG and support the behavior change needed regionally to achieve statewide, regional, and local climate goals. MDE is the lead-agency for Maryland's CPRG Planning Grant and will work with REDUCE partners to support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. The combined activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. The activities in the REDUCE project will dovetail with MDE's proposal to create a significantly greater impact on the region. The proposed activities will help safeguard the nearly three million people living in the MSA (the 20th largest in the nation) by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal, and we look forward to seeing the positive impact CPRG funds will have on our community and across the region. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Hoagland', written in a cursive style.

Christopher R. Hoagland, Director
Air and Radiation Administration



501 East Pratt Street
Baltimore, Maryland
21202-3194

P: 410-576-3800
aqua.org

March 13, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of The National Aquarium, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize, Utilize Clean Energy (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The National Aquarium connects people with nature to inspire conservation action; combatting climate change is one of our three overarching goals. We take a holistic approach which encompasses climate education and communication, mitigation, and adaptation. Our organization is committed to achieving net-zero greenhouse gas emissions by 2035. We work with communities and partners throughout the state to advocate for climate policy solutions and implement nature-based solutions that support climate resilience. We recognize that not everyone is experiencing climate impacts to the same degree, and climate solutions should prioritize equity and environmental justice.

With CPRG funding, REDUCE partners will support community-level and jurisdiction-specific programming to prioritize the benefits of climate pollution reduction for communities with the most need throughout Maryland. The City of Baltimore recently approved an ambitious Climate Action Plan update that must be implemented to achieve the city's and state's ambitious goals while also working to alleviate the unjust, unfair burden placed on communities with environmental justice concerns. Local and state climate plans provide sound roadmaps to guide the significant investments and longer-term financing mechanisms needed for implementation.

CPRG funds will support decarbonizing municipal operations while spurring regional zero-waste capacity. To complement climate pollution reduction activities, REDUCE partners aim to maximize the co-benefits of nature-based solutions to sequester carbon; continually train, educate, and motivate a regional climate workforce; and seek additional revenue sources. Given close collaboration among



REDUCE partners and the State of Maryland, activities will dovetail with the state's proposal to create a significantly greater impact on the region.

The proposed project will help several jurisdictions take coordinated action to reduce climate pollution and better serve nearly three million people living in the MSA, the 20th largest in the nation. Project activities will yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. I strongly urge you to fully fund the REDUCE proposal and look forward to seeing the positive impacts CPRG funds will leverage.

Sincerely,

A handwritten signature in black ink, appearing to read "John Racanelli", with a small dot at the end.

John Racanelli
President and Chief Executive Officer

March 12, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

I write to express my enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project. The seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area (MSA) seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

Local government climate action planning and coordinated implementation is critically needed to meet the State of Maryland's goal to achieve a 60% reduction in emissions of by 2031 and net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state.

CPRG funding will enable the REDUCE partners to support community-level and jurisdiction-specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity and lay the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland's proposal to create a significantly greater impact on the region.

Page 1 of 2

410.333.2730 / 410.333.2721 fax / authority@nmwda.org
nmwda.org / Business-to-Business Recycling: mdrecycles.org
Tower II – Suite 402, 100 S. Charles Street, Baltimore, MD 21201-2705

ADM1198797KMU

Comprehensive Waste Management Through Recycling, Reuse, Resource Recovery and Landfill

MEMBERS:

Rhody R. Holthaus, Anne Arundel County / Vacant, Baltimore City / D'Andrea L. Walker, Baltimore County / Clifford J. Engle, Carroll County
Phillip S. Harris, Frederick County / Joseph J. Siemek, Harford County / Mark A. DeLuca, Howard County / Guillermo Wainer, Montgomery County
Charles Glass, Maryland Environmental Service / Andrew Kays, Executive Director



The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay. The Northeast Maryland Waste Disposal Authority is tasked with regional planning and services, support, and sustainability and thus will support its Member Jurisdictions, many of whom are among the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area, in such climate pollution reduction efforts, as applicable as directed and in accordance with our law.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact me at akays@nmwda.org. I look forward to seeing the positive impact CPRG funds will have on the region.

Best Regards,

A handwritten signature in black ink, appearing to read "Andrew Kays", with a stylized flourish at the end.

Andrew Kays
Executive Director



MIRACLE CITY CHURCH

100 S. Rock Glen Rd
Baltimore, MD 21229

March 12, 2024

Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Miracle City Church, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn, and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made, and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact the undersigned at thomas.freeman@miraclecitychurch.org . I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Sincerely,

Thomas Freeman, Jr. PhD, PE
Head Elder



Environmental Protection Agency
Transmitted electronically via: CPRG@epa.gov

Mar. 8, 2024

RE: Letter of Support for Baltimore City Department of Planning CPRG Submission

Dear Review Committee;

On behalf of Open Works, a nonprofit community makerspace in central Baltimore, I write to express enthusiastic support for the **R**educe, **E**lectrify, **D**ecarbonize **U**tilize **C**lean **E**nergy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay. The proposed activities also strongly align with our status as a community innovation hub where anyone can learn technical skills, use industrial equipment, prototype new technologies, and or start a business.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Will Holman at Open Works (will@openworksbmore.com / 410-862-0424). I



look forward to seeing the positive impact CPRG funds will have on our community and across the region.

We sincerely thank you for your time and consideration of this request.

Sincerely,



Will Holman
Executive Director, Open Works



March 12, 2014

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Pathway Forward, Inc., I write to express enthusiastic support for the **R**educe, **E**lectrify, **D**ecarbonize **U**tilize **C**lean **E**nergy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Brenda D. White at 410.935.2392. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

Brenda D. White

Brenda D. White, President



Queen Anne's County

County Commissioners:

James J. Moran, At Large
Jack N. Wilson, Jr., District 1
J. Patrick McLaughlin, District 2
Philip L. Dumenil, District 3
Christopher M. Corchiarino, District 4

THE COUNTY COMMISSIONERS OF QUEEN ANNE'S COUNTY

The Liberty Building
107 North Liberty Street
Centreville, MD 21617

e-mail: QACCommissioners&Administrator@qac.org

County Administrator: Todd R. Mohn, PE
Executive Assistant to County Commissioners: Margie A. Houck
County Attorney: Patrick Thompson, Esquire

24 April 2023

Cristina Fernández
Division Director
US Environmental Protection Agency, Region 3
Air & Radiation Division (3AD00)
1600 John F Kennedy Blvd
Philadelphia, PA 19103

Re: Queen Anne's County Support for the joint Baltimore Metropolitan Council submittal of a Climate Pollution Reduction Grant Application

Dear Ms. Fernández,

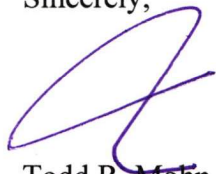
I am writing this letter to you on behalf of Queen Anne's County to express our commitment to the Climate Pollution Reduction Grant Application (CPRG) that the Baltimore Metropolitan Council (BMC) is submitting on behalf of the BMC jurisdictions. Not only does the County value its participation in BMC initiatives, but we also support this collaborative effort within the BMC to develop regional climate planning goals.

Queen Anne's County reaffirms its longstanding commitment to climate resiliency planning by extending its support to this collaborative approach with the BMC. The County has enacted multiple policy documents that strategize and prioritize climate resiliency projects. The 2022 Comprehensive Plan firmly establishes support for the implementation of the County's climate resiliency policies. We look forward to bringing those policy documents to bear as, through the BMC, we play a key role in the design a metropolitan-area-based climate plan. Queen Anne's County is committed to incorporating a variety of programs and projects that could be implemented by a range of eligible entities and to conducting meaningful engagement with low income and disadvantaged communities as part of the plan development process.

Our staff is eager to partner and appreciative of BMC staff efforts to coordinate this CPRG application on behalf of our region. The County is equally eager to establish regional planning priorities so that we are in a solid planning position to participate in EPA's next funding opportunity for Climate Pollution Reduction implementation grants.

Should you have any questions, please do not hesitate to contact Queen Anne's County Planning Director, Amy G. Moredock at (410)758-1255 or amoredock@qac.org.

Sincerely,

A handwritten signature in purple ink, appearing to be 'T. Mohn', written over the printed name.

Todd R. Mohn, PE
County Administrator

CC: Michael B. Kelly, BMC Executive Director
Sara Tomlinson, PE, BMC Senior Water Resources Engineer
Amy G. Moredock, CFM, QAC Planning Director

Via email:

Fernandez.Cristina@epa.gov
mkelly@baltometro.org
stomlinson@baltometro.org
amoredock@qac.org



March 22, 2024

TO: The Baltimore Office of Sustainability and Department of Public Works

SUBJECT: Letter of Commitment for the Baltimore Metropolitan Statistical Area's CPRG Proposal

Dear REDUCE Coalition:

On behalf of SolarX|Works, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which Baltimore City and the six counties (Anne Arundel, Baltimore, Carroll, Harford, Howard and Queen Anne's) in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

SolarX|Works has collaborated with City of Baltimore agencies, the Department of Sustainability, and various coalitions to advance understanding and awareness of climate pollution in the city and region. By installing our solar-powered cooling technology in public areas such as bus stops across the city, our solution will help alleviate the effects of climate change on the most vulnerable citizens while providing innovative educational data on renewable technologies via digital displays.

Our continued collaboration will help to inform plans and evaluate progress, making it essential to the success of the project. We are pleased to continue to collaborate to apply research, better understand the impact of actions undertaken and, as possible, help educate a climate workforce to maximize the impact of funds invested in the REDUCE project.

With CPRG funding, SolarX|Works will collaborate with the REDUCE partners to support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the greatest need.

Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, public health, and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State's proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have any questions or wish to speak about our support of this proposal, please contact Laurie A. Watkins at laurie@laurieawatkins.com. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,



Donald McGraw

Founder



March 23, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of Stillmeadow Community Projects, Inc., I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland's Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made, and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the coalitions' close collaboration with the State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Yorell Tuck at yorell@stillmeadow.community. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.



Best Regards,

Yorell Tuck

Yorell Tuck
Director of Operations



March 7, 2024

Environmental Protection Agency

Transmitted electronically via: CPRG@epa.gov

Dear Review Panel:

On behalf of The Transformation Center, I write to express enthusiastic support for the Reduce, Electrify, Decarbonize Utilize Clean Energy – (REDUCE) project through which the seven counties in the Baltimore-Columbia-Towson Metropolitan Statistical Area seek a competitive Climate Pollution Reduction Grant (CPRG) (Opportunity # EPA-R-OAR-CPRGT-23-09) to undertake key, timely climate pollution reduction initiatives outlined in the MSA-specific Primary Climate Action Plan and the State of Maryland’s Climate Pollution Reduction Plan.

The people who live, work, play, invest, learn and grow in Baltimore already live with negative effects caused by climate pollution and the risk of climate related hazards increases each year. The City of Baltimore recently approved an ambitious Climate Action Plan Update (CAP) that must be implemented to achieve the City and State of Maryland goal to achieve net-zero emissions by 2045, while also working to alleviate the unjust, unfair burden placed on environmental justice and frontline communities across the state. While the CAP provides a sound roadmap for achieving the shorter-term goal of 60% emission reduction by 2030, significant investment must be made and longer-term financing mechanisms must be identified to implement the CAP.

With CPRG funding, the REDUCE partners will support community-level and jurisdiction specific programming to prioritize the benefits of climate pollution reduction for communities across Maryland with the most need. CPRG funds will support decarbonizing municipal operations while spurring regional zero waste capacity laying the foundation for regional circular economies of scale. To complement climate pollution reduction and decarbonization activities, REDUCE aims to maximize the co-benefits of nature-based solutions to sequester carbon, seek new, future untapped revenue sources to REDUCE and continually train, educate, and motivate a regional climate workforce. Combined, the activities will result in measurable reduction of climate pollution and impactful change through climate actions that yield co-benefits for communities, individuals, wildlife, ecosystems, and local economies. Further, due to the



coalitions' close collaboration with State of Maryland, activities will dovetail with the State of Maryland proposal to create a significantly greater impact on the region.

The proposed activities will help safeguard the nearly 3 million people living in the MSA, the 20th largest in the nation, by better preparing jurisdictions to take near and longer-term action to mitigate climate pollution related risks in particularly climate vulnerable areas located on or adjacent to the Chesapeake Bay.

I strongly urge you to fully fund the REDUCE proposal. Should you have questions or wish to speak about our support of this proposal, please contact Mallory at mallory@transformationcenter.tc. I look forward to seeing the positive impact CPRG funds will have on our community and across the region.

Best Regards,

Mallory Zimmerman

Mallory Zimmerman

Director of Operations

APPENDIX C: OTHER ATTACHMENTS

**APPENDIX C3: LIST OF CLIMATE AND ECONOMIC JUSTICE SCREENING TOOL (CEJST)
CENSUS TRACT IDS, BLOCK GROUP IDS AND/OR ZIP CODES**

THIS PAGE IS INTENTIONALLY LEFT BLANK

APPENDIX C: OTHER ATTACHMENTS

Baltimore Region Zip Code Demographics						
County	Zip Code	Total Population	# of Households	Targeted Tier	Range of State Percentile Index	Per capita Income
Anne Arundel County	20711	6,967	2,235	Tier C	9-70	\$47,827
Anne Arundel County	21403	31398	13,303	Tier D	12-62	\$57,861
Anne Arundel County	21090	9854	3,623	Tier B	28-53	\$37,630
Anne Arundel County	20724	18,086	6,974	Tier B	45-85	\$41,970
Anne Arundel County	21037	21,191	7,803	Tier F	12-36	\$59,296
Anne Arundel County	21060	21060	12,076	Tier D	EPA N/A	EPA N/A
Anne Arundel County	21061	55763	22,380	Tier B	54-82	\$36,644
Anne Arundel County	21076	20,900	8,295	Tier C	33-77	\$50,028
Anne Arundel County	21113	30,469	12,705	Tier C	EPA N/A	EPA N/A
Anne Arundel County	21144	36454	12,789	Tied C	33-77	\$45,742
Anne Arundel County	21225	34093	12,538	Tier A	67-96	\$21,228
Baltimore City	21213	29,155	11,220	Tier A	90+	\$23,351
Baltimore City	21217	32,081	14,593	Tier A	90+	\$28,134
Baltimore City	21225	34,093	12,538	Tier A	90+	\$21,228
Baltimore City	21216	28,096	11,415	Tier A	90+	\$23,346
Baltimore City	21215	54,580	21,769	Tier A	80+	\$27,464
Baltimore City	21231	15,339	7,813	Tier A	80+	\$22,822
Baltimore City	21223	20,229	8,438	Tier A	90+	\$22,822
Baltimore City	21205	14,710	5,226	Tier A	95+	\$18,340
Baltimore City	21226	7561	3,347	Tier A	90+	EPA N/A
Baltimore City	21201*	17,405	9,571	Tier A	80-90+	\$38,160
Baltimore City	21202*	22,486	10,684	Tier A	80-90	\$46,800
Baltimore County	21222	59,162	22,210	Tier D	EPA N/A	\$28,646
Baltimore County	21220	41,573	15,884	Tier F	71-92	\$37,054
Baltimore County	21227	33,534	13,611	Tier C	EPA N/A	EPA N/A
Baltimore County	21207	50,833	19,016	Tier B	EPA N/A	\$30,013
Baltimore County	21229	44,117	18,336	Tier C	70-91	\$27,990
Baltimore County	21230	36,660	17,478	Tier C	N/A	N/A
Baltimore County	21204	21,730	8,168	Tier F	22-60	\$59,383
Baltimore County	21286	23,064	9,561	Tier E	34-60	\$48,750
Howard County	20794	17082	4,160	Tier B	56-81	\$41,928
Howard County	21075	33,726	12,305	Tier F	EPA N/A	EPA N/A
Howard County	21043	47625	17,238	Tier F	31-70	\$55,627

APPENDIX C: OTHER ATTACHMENTS

Howard County	21045	40512	15,333	Tier F	27-80	\$49,537
Howard County	21638	768	342	Tier F	2-31	\$76,956
Total Target Population		1,012,356	404,977			

Baltimore Region Zip Codes: Reason for Selecting	
County	Reason for Selecting
Anne Arundel County	This zipcode includes census tract 708004, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 706402 and 706404, which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 750201, which has a EJ Score of 92.96 on the MDE EJScreen
Anne Arundel County	This zipcode includes census tracts 740501, 740502, 740603, and 751500, which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 82 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tract 702500, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 730204, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 730511, 730514, and 750803 which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 75 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tracts 740107, 740601, and 751200 which are considered overburdened and/or underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 75 according to the MDE EJScreen.
Anne Arundel County	This zipcode includes census tract 740305, which is considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tract 740104, 740105, and 740304 which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act
Anne Arundel County	This zipcode includes census tracts 750101, 750102, and 750201, which are considered overburdened and underserved according to the Maryland Climate Solutions Now Act and had an EJScore of above 90 according to the MDE EJScreen.
Baltimore City	47% of households are low-income, 93% population BIPOC, 88% AA
Baltimore City	52% of households are low-income, 87% population BIPOC, 82% AA
Baltimore City	46% of households are low-income, 65 % BIPOC, 16% NHW, higher (3%) limited-English speaking population 85% Spanish, 12% IE languages, average life expectancy 60 years
Baltimore City	46% of households are low-income, 99 % BIPOC, 95% AA
Baltimore City	41% of households are low-income, 83 % BIPOC, 76% AA
Baltimore City	41% of households are low-income, 83 % BIPOC, 76% AA
Baltimore City	62% of households are low-income, 81 % BIPOC, 71% AA

APPENDIX C: OTHER ATTACHMENTS

Baltimore City	58% of households are low-income, 88 % BIPOC, 15% NHW, higher limited-English speaking population 67% Spanish, 33% API languages, average life expectancy 40 years
Baltimore City	Curtis Bay Community This zipcode includes census tract 730102, which is has a EJ Score of 86.12 on the MDE EJScreen
Baltimore City	50% of households are low-income, 71 % BIPOC, 15% NHW, high supplemental indexes
Baltimore City	41% of households are low-income, 67 % BIPOC, 54% AA, high supplemental indexes, low life expectancy - 47 years
Baltimore County	High percentile of ozone, toxic air releases, superfund proximity, and wastewater discharge
Baltimore County	High percentile of ozone and wastewater discharge
Baltimore County	High percentile of ozone, PM, hazardous waste, toxic air releases and wastewater discharge
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Baltimore County	This tract is considered disadvantaged because it meets more than 1 burden threshold AND the associated socioeconomic threshold.
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	has at least one “Disadvantaged Communities” Block Group as defined by EPA for IRA
Howard County	This tract does not encompass the entire QAC 5th Election District. Of the 11 census tracts in QAC, this is the only area that meets the underserved criteria. Seven of the 11 census tracts in QAC have been identified as overburdened; while 3 census tracts are neither underserved or overburdened. MDE EJ Tool: 4084, 57.62%



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

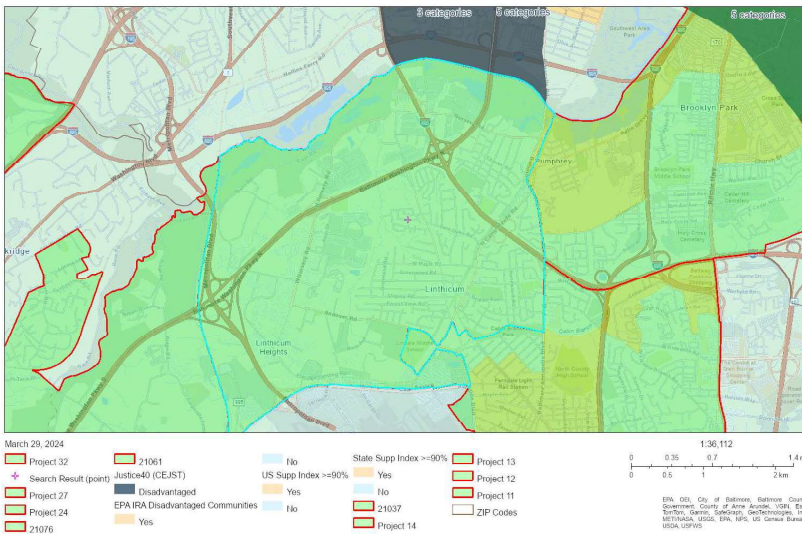
Linthicum, MD

the User Specified Area

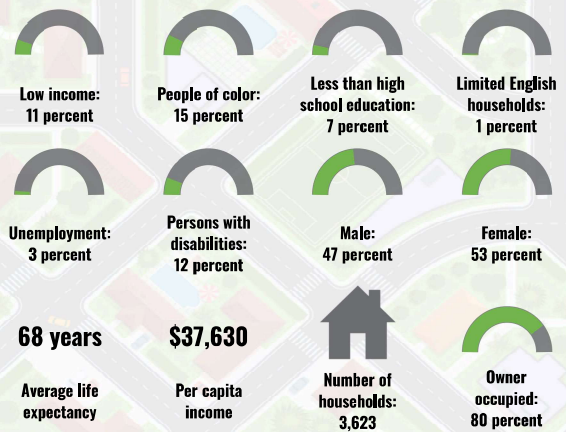
Population: 9,854

Area in square miles: 6.80

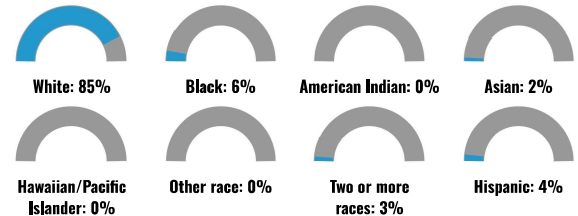
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	92%
Spanish	4%
Other Indo-European	1%
Chinese (including Mandarin, Cantonese)	1%
Total Non-English	8%

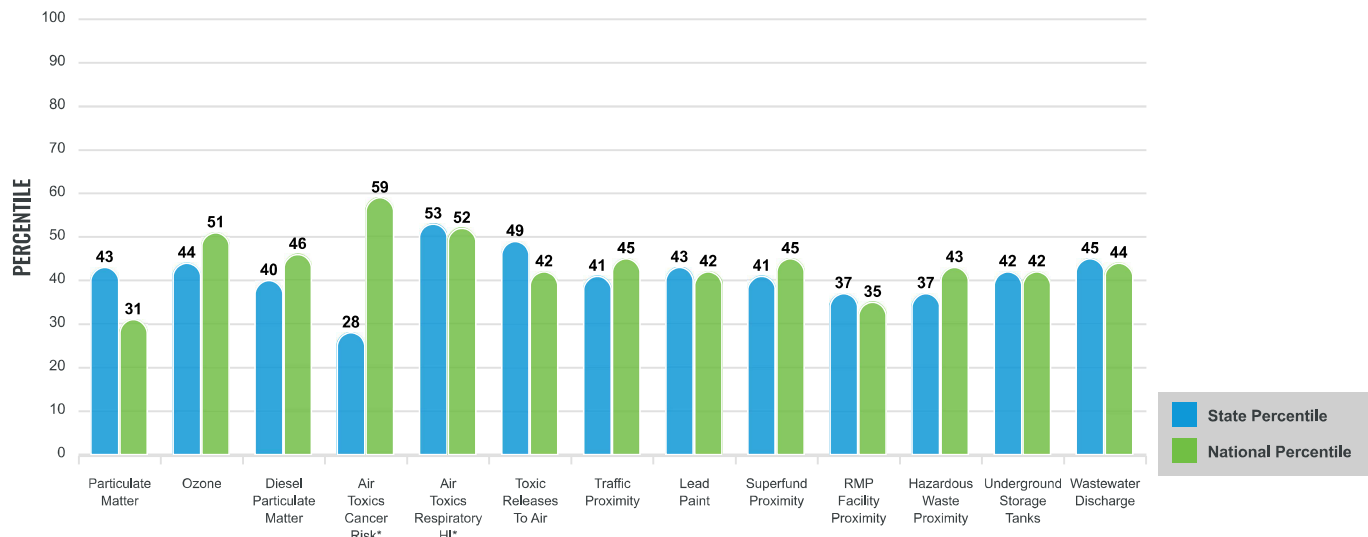
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

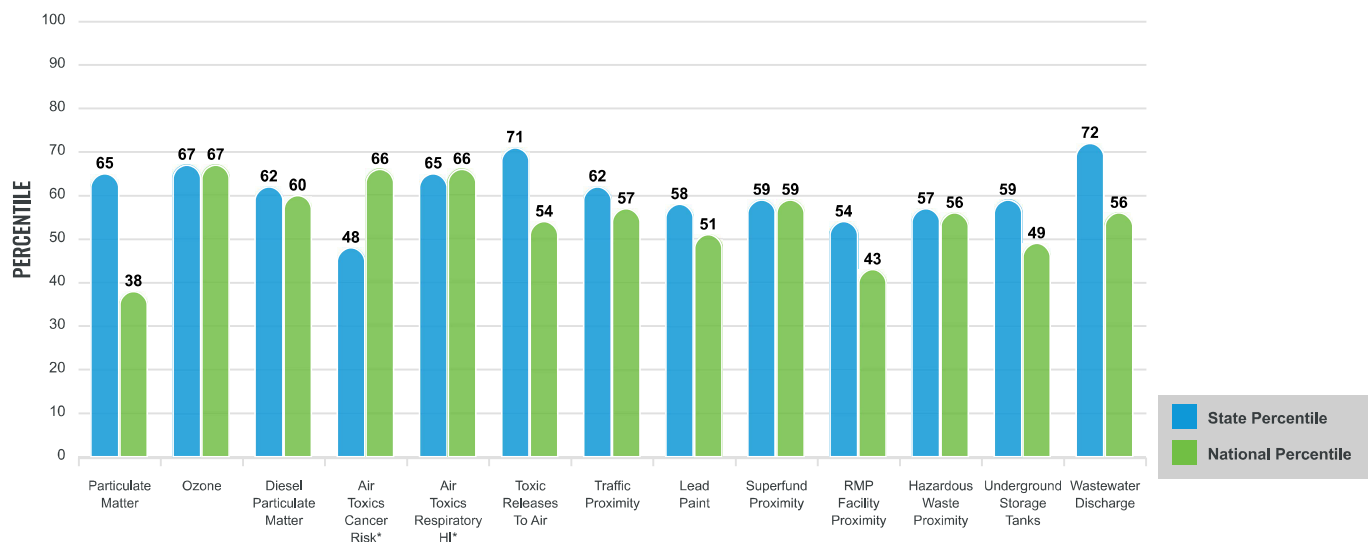
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.13	7.84	78	8.08	48
Ozone (ppb)	70.4	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.374	0.288	76	0.261	80
Air Toxics Cancer Risk* (lifetime risk per million)	34	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,900	430	98	4,600	72
Traffic Proximity (daily traffic count/distance to road)	430	180	88	210	88
Lead Paint (% Pre-1960 Housing)	0.51	0.32	72	0.3	74
Superfund Proximity (site count/km distance)	0.14	0.13	73	0.13	76
RMP Facility Proximity (facility count/km distance)	0.18	0.42	61	0.43	52
Hazardous Waste Proximity (facility count/km distance)	2.2	2.1	68	1.9	75
Underground Storage Tanks (count/km ²)	2.6	1.9	73	3.9	64
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.064	1.2	91	22	80
SOCIOECONOMIC INDICATORS					
Demographic Index	13%	36%	18	35%	16
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	15%	49%	20	39%	31
Low Income	11%	22%	35	31%	20
Unemployment Rate	3%	6%	43	6%	45
Limited English Speaking Households	1%	3%	59	5%	58
Less Than High School Education	7%	10%	50	12%	45
Under Age 5	6%	6%	61	6%	62
Over Age 64	18%	16%	62	17%	59
Low Life Expectancy	20%	19%	60	20%	53

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	23
Air Pollution	37
Brownfields	0
Toxic Release Inventory	4

Other community features within defined area:

Schools	2
Hospitals	0
Places of Worship	7

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	20%	19%	60	20%	53
Heart Disease	6.3	5.3	77	6.1	54
Asthma	8.6	9.9	17	10	13
Cancer	7.6	6.1	84	6.1	82
Persons with Disabilities	11.1%	11.8%	53	13.4%	40

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	46	14%	35
Lack of Health Insurance	2%	6%	21	9%	13
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

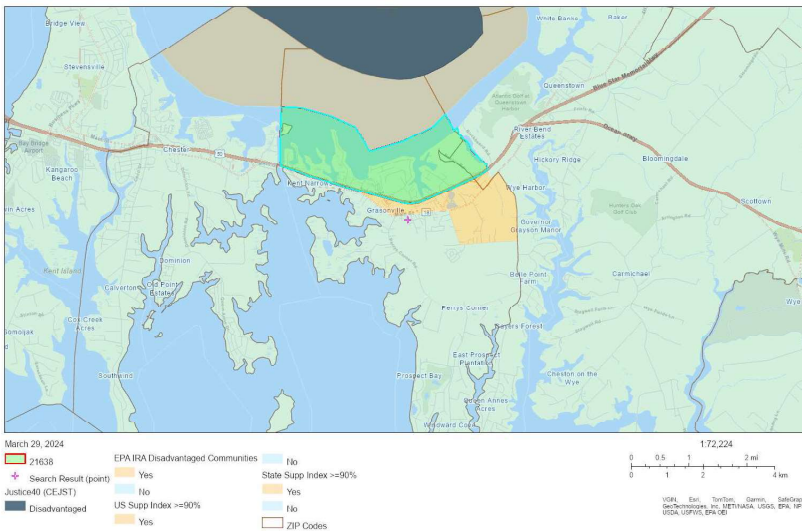
Grasonville, MD

the User Specified Area

Population: 768

Area in square miles: 3.55

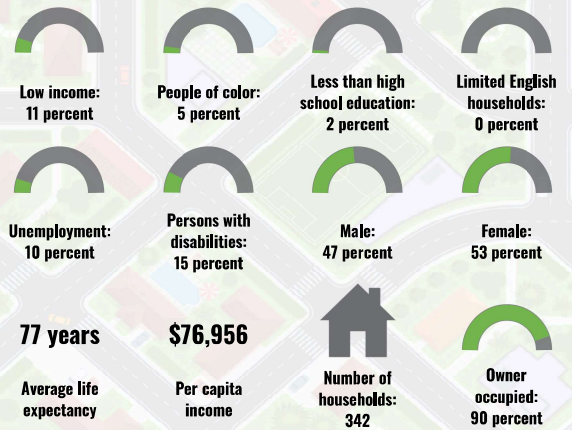
A3 Landscape



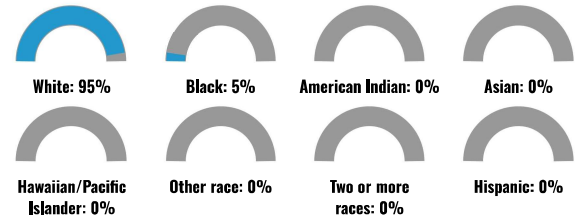
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	2%
French, Haitian, or Cajun	1%
Total Non-English	3%

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

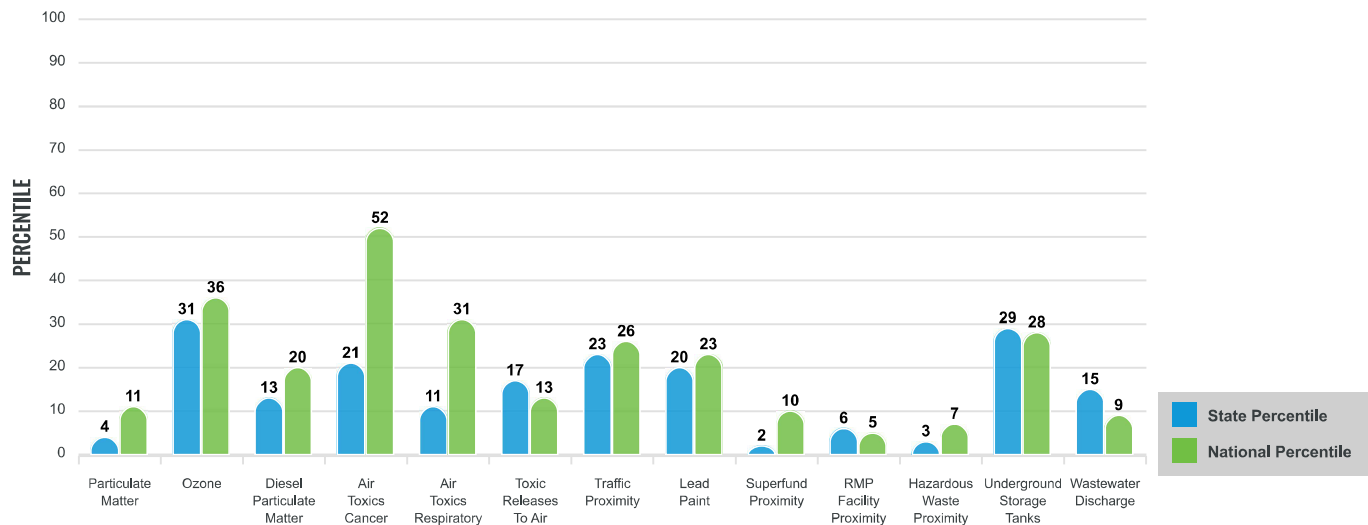
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

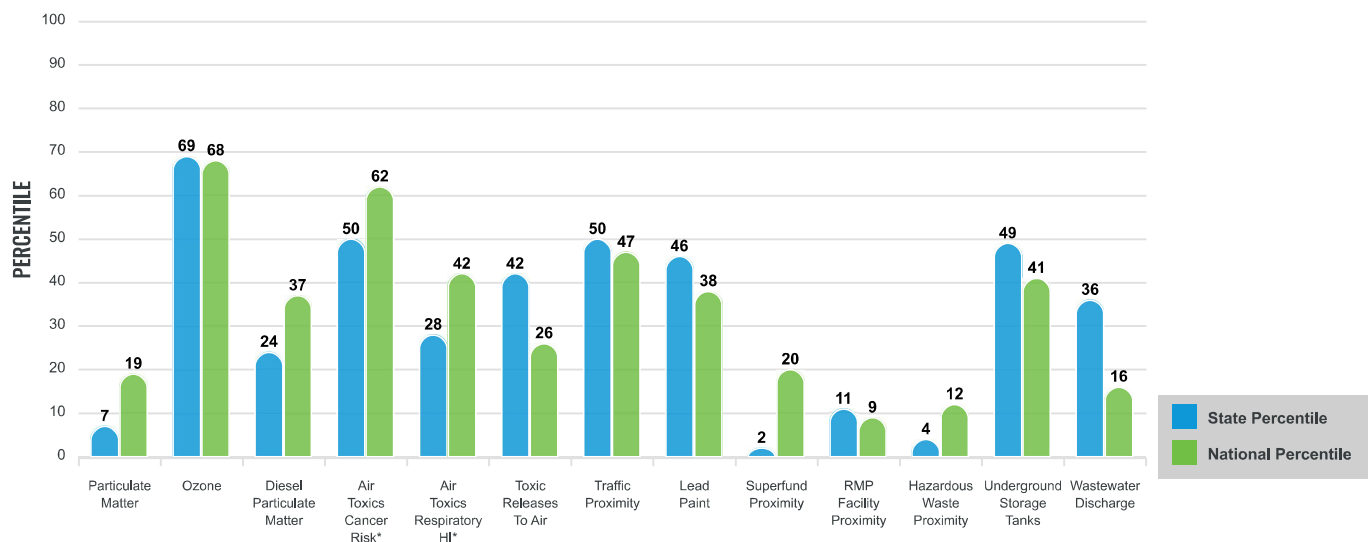
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.04	7.84	7	8.08	21
Ozone (ppb)	70.4	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.188	0.288	20	0.261	42
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.3	0.34	7	0.31	31
Toxic Releases to Air	170	430	42	4,600	30
Traffic Proximity (daily traffic count/distance to road)	110	180	52	210	58
Lead Paint (% Pre-1960 Housing)	0.2	0.32	48	0.3	48
Superfund Proximity (site count/km distance)	0.027	0.13	2	0.13	25
RMP Facility Proximity (facility count/km distance)	0.05	0.42	9	0.43	10
Hazardous Waste Proximity (facility count/km distance)	0.07	2.1	4	1.9	14
Underground Storage Tanks (count/km ²)	0.96	1.9	49	3.9	47
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.4E-05	1.2	40	22	19
SOCIOECONOMIC INDICATORS					
Demographic Index	8%	36%	7	35%	6
Supplemental Demographic Index	9%	12%	39	14%	26
People of Color	5%	49%	6	39%	13
Low Income	11%	22%	32	31%	19
Unemployment Rate	10%	6%	82	6%	80
Limited English Speaking Households	0%	3%	0	5%	0
Less Than High School Education	2%	10%	18	12%	18
Under Age 5	1%	6%	14	6%	16
Over Age 64	45%	16%	98	17%	97
Low Life Expectancy	21%	19%	73	20%	68

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	8
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	0
Hospitals	0
Places of Worship	1

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	21%	19%	73	20%	68
Heart Disease	6.1	5.3	75	6.1	52
Asthma	9.6	9.9	48	10	43
Cancer	6.9	6.1	69	6.1	67
Persons with Disabilities	11%	11.8%	51	13.4%	39

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	55%	7%	99	12%	96
Wildfire Risk	1%	1%	0	14%	79

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	8%	11%	51	14%	40
Lack of Health Insurance	5%	6%	52	9%	33
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

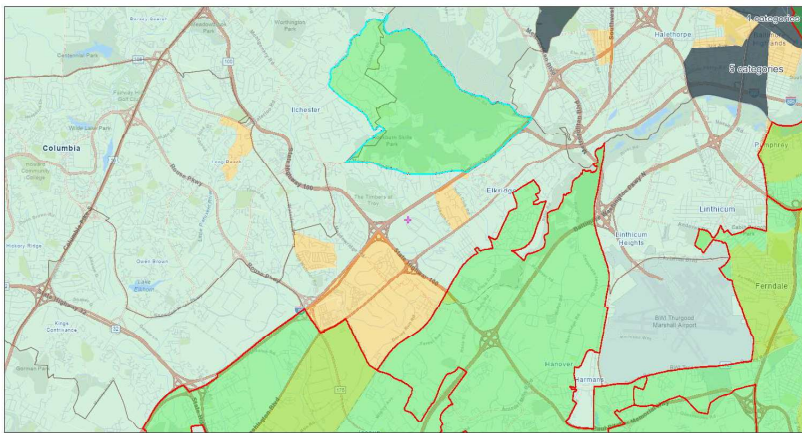
Ilchester, MD

the User Specified Area

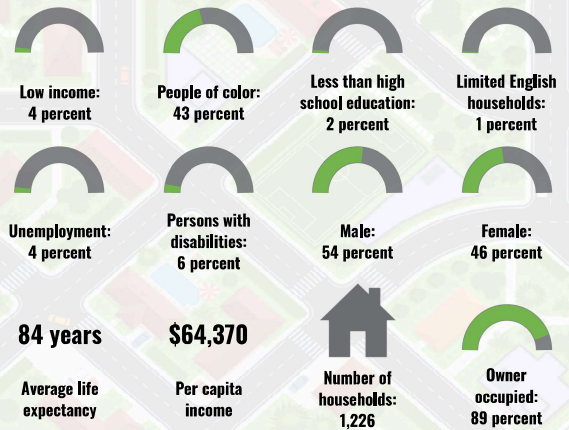
Population: 4,192

Area in square miles: 5.15

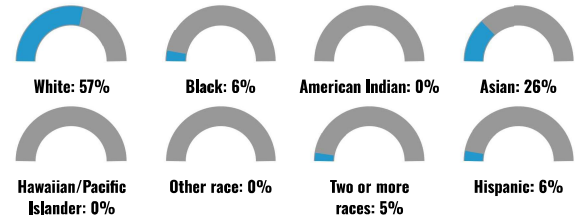
A3 Landscape



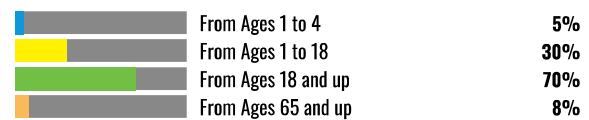
COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	84%
Spanish	3%
German or other West Germanic	1%
Other Indo-European	3%
Korean	1%
Chinese (including Mandarin, Cantonese)	1%
Vietnamese	2%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	2%
Other and Unspecified	1%
Total Non-English	16%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

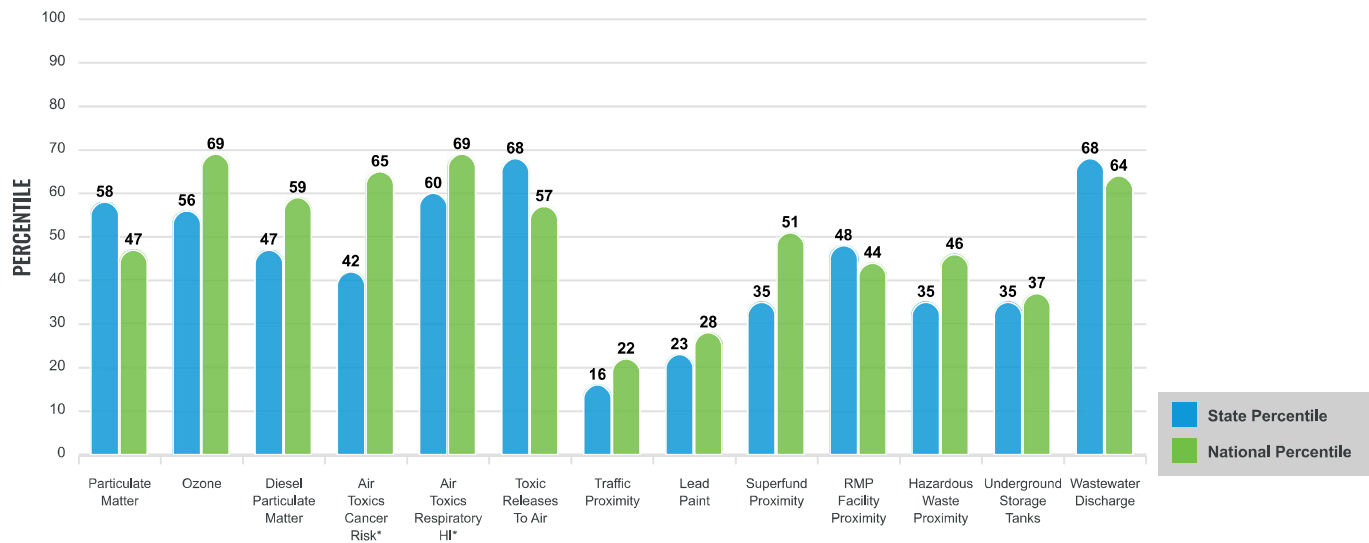
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

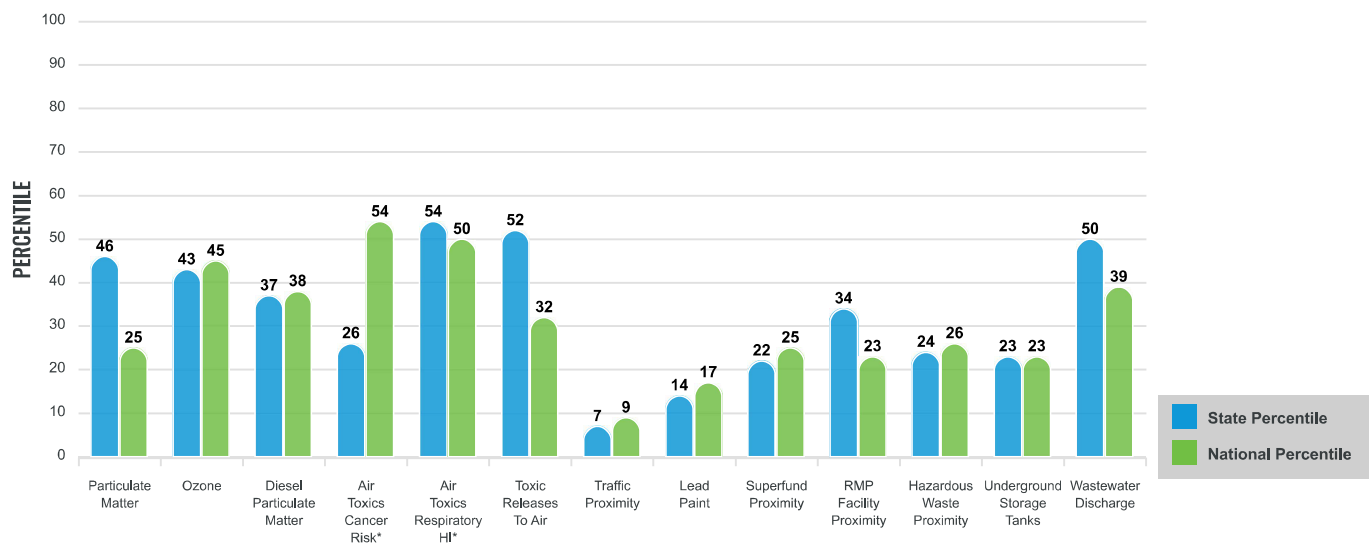
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.08	7.84	69	8.08	46
Ozone (ppb)	68.8	66	70	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.31	0.288	55	0.261	70
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,200	430	93	4,600	62
Traffic Proximity (daily traffic count/distance to road)	9.7	180	9	210	16
Lead Paint (% Pre-1960 Housing)	0.033	0.32	18	0.3	22
Superfund Proximity (site count/km distance)	0.06	0.13	32	0.13	50
RMP Facility Proximity (facility count/km distance)	0.14	0.42	52	0.43	41
Hazardous Waste Proximity (facility count/km distance)	0.41	2.1	33	1.9	46
Underground Storage Tanks (count/km ²)	0.091	1.9	24	3.9	27
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.048	1.2	90	22	78
SOCIOECONOMIC INDICATORS					
Demographic Index	24%	36%	37	35%	40
Supplemental Demographic Index	5%	12%	10	14%	7
People of Color	43%	49%	48	39%	61
Low Income	4%	22%	13	31%	7
Unemployment Rate	4%	6%	52	6%	53
Limited English Speaking Households	1%	3%	60	5%	59
Less Than High School Education	2%	10%	20	12%	19
Under Age 5	5%	6%	51	6%	52
Over Age 64	8%	16%	21	17%	20
Low Life Expectancy	14%	19%	11	20%	9

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	4
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	3
Hospitals	0
Places of Worship	4

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	14%	19%	11	20%	9
Heart Disease	3.4	5.3	9	6.1	6
Asthma	8.2	9.9	12	10	8
Cancer	5.4	6.1	37	6.1	33
Persons with Disabilities	5.2%	11.8%	6	13.4%	5

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	43	12%	30
Wildfire Risk	0%	1%	0	14%	0

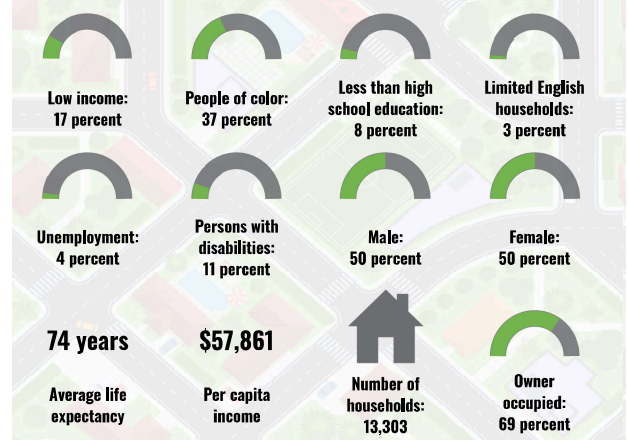
CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	2%	11%	20	14%	14
Lack of Health Insurance	0%	6%	0	9%	0
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area



Annapolis Neck, MD

COMMUNITY INFORMATION



Race	Percentage
White	63%
Black	16%
American Indian	0%
Asian	1%
Hawaiian/Pacific Islander	0%
Other race	1%
Two or more races	4%
Hispanic	15%

	From Ages 1 to 4	7%
	From Ages 1 to 18	21%
	From Ages 18 and up	79%
	From Ages 65 and up	20%

Race/Ethnicity	Speak Spanish	Speak Other Indo-European Languages	Speak Asian-Pacific Island Languages	Speak Other Languages
Hispanic	50%	34%	16%	0%
Black	0%	0%	0%	0%
White	0%	0%	0%	0%
Other	0%	0%	0%	0%

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	86%
Spanish	10%
Russian, Polish, or Other Slavic	1%
Other Indo-European	2%
Total Non-English	14%

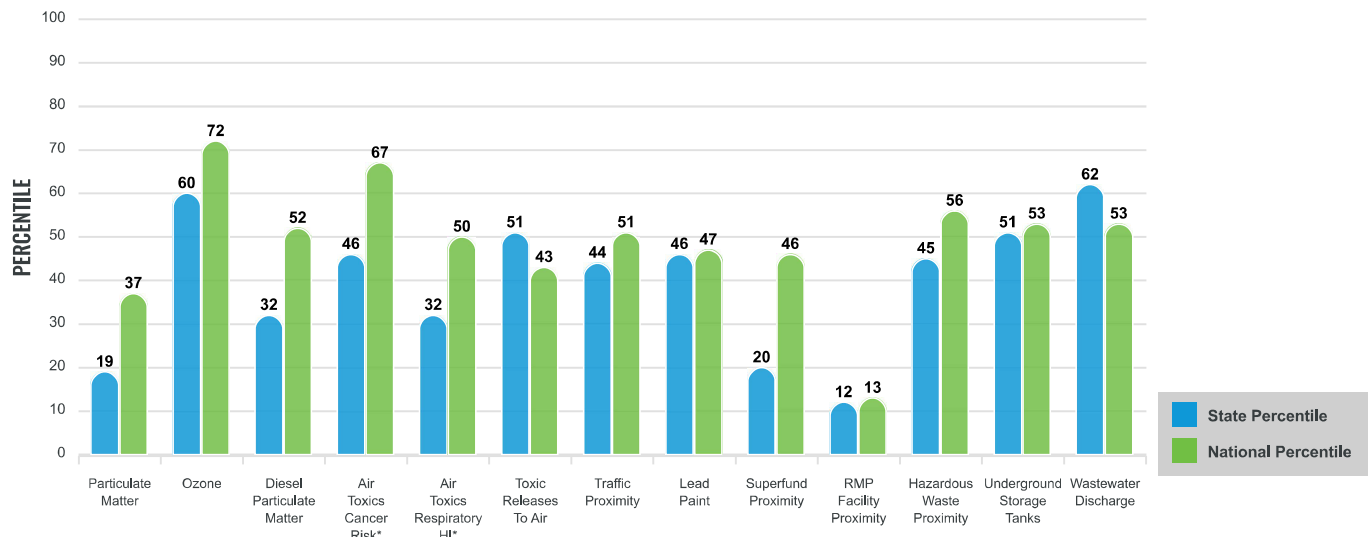
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

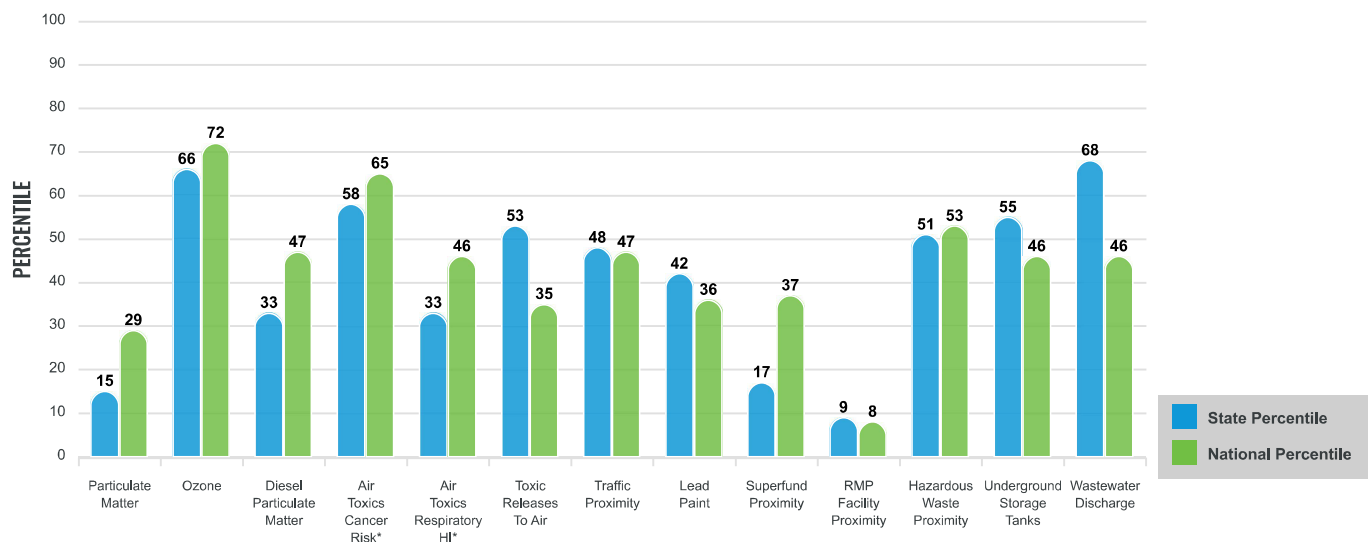
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.39	7.84	12	8.08	29
Ozone (ppb)	68.7	66	69	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.202	0.288	24	0.261	46
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.3	0.34	7	0.31	31
Toxic Releases to Air	260	430	50	4,600	36
Traffic Proximity (daily traffic count/distance to road)	83	180	45	210	52
Lead Paint (% Pre-1960 Housing)	0.17	0.32	43	0.3	44
Superfund Proximity (site count/km distance)	0.041	0.13	12	0.13	37
RMP Facility Proximity (facility count/km distance)	0.044	0.42	6	0.43	8
Hazardous Waste Proximity (facility count/km distance)	0.81	2.1	47	1.9	57
Underground Storage Tanks (count/km ²)	1.8	1.9	63	3.9	57
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0014	1.2	70	22	51
SOCIOECONOMIC INDICATORS					
Demographic Index	27%	36%	43	35%	46
Supplemental Demographic Index	10%	12%	49	14%	35
People of Color	37%	49%	43	39%	56
Low Income	17%	22%	48	31%	31
Unemployment Rate	5%	6%	55	6%	55
Limited English Speaking Households	3%	3%	71	5%	67
Less Than High School Education	8%	10%	55	12%	49
Under Age 5	7%	6%	64	6%	65
Over Age 64	20%	16%	71	17%	68
Low Life Expectancy	17%	19%	30	20%	28

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	58
Air Pollution	24
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	5
Hospitals	0
Places of Worship	16

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	30	20%	28
Heart Disease	5.6	5.3	63	6.1	41
Asthma	9	9.9	29	10	25
Cancer	6.8	6.1	64	6.1	62
Persons with Disabilities	10.1%	11.8%	44	13.4%	33

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	8%	7%	77	12%	59
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	47	14%	36
Lack of Health Insurance	8%	6%	76	9%	56
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

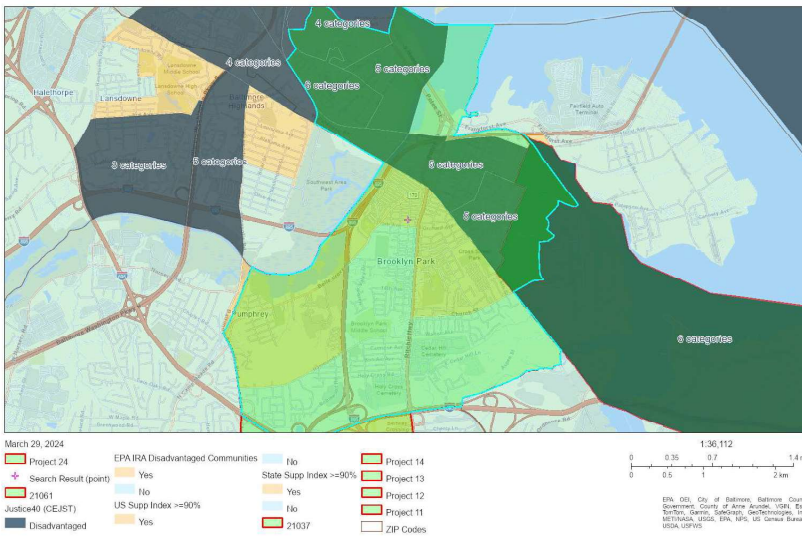
Brooklyn Park, MD

the User Specified Area

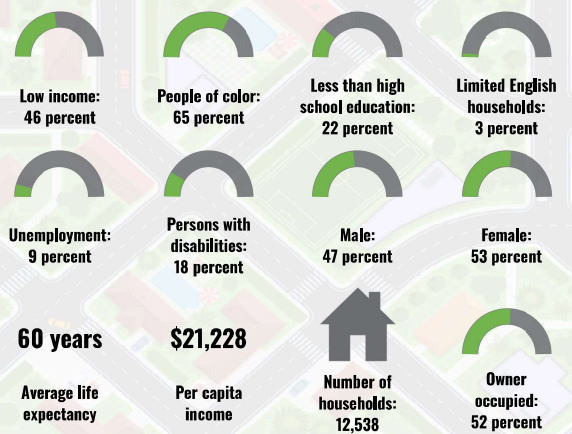
Population: 34,093

Area in square miles: 6.72

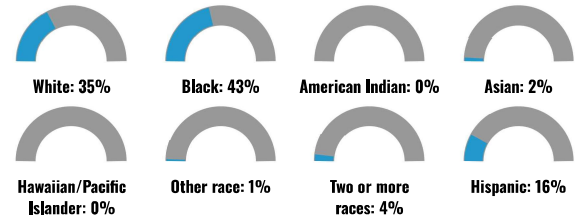
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	84%
Spanish	12%
French, Haitian, or Cajun	1%
Other Indo-European	1%
Tagalog (including Filipino)	1%
Other and Unspecified	1%
Total Non-English	16%

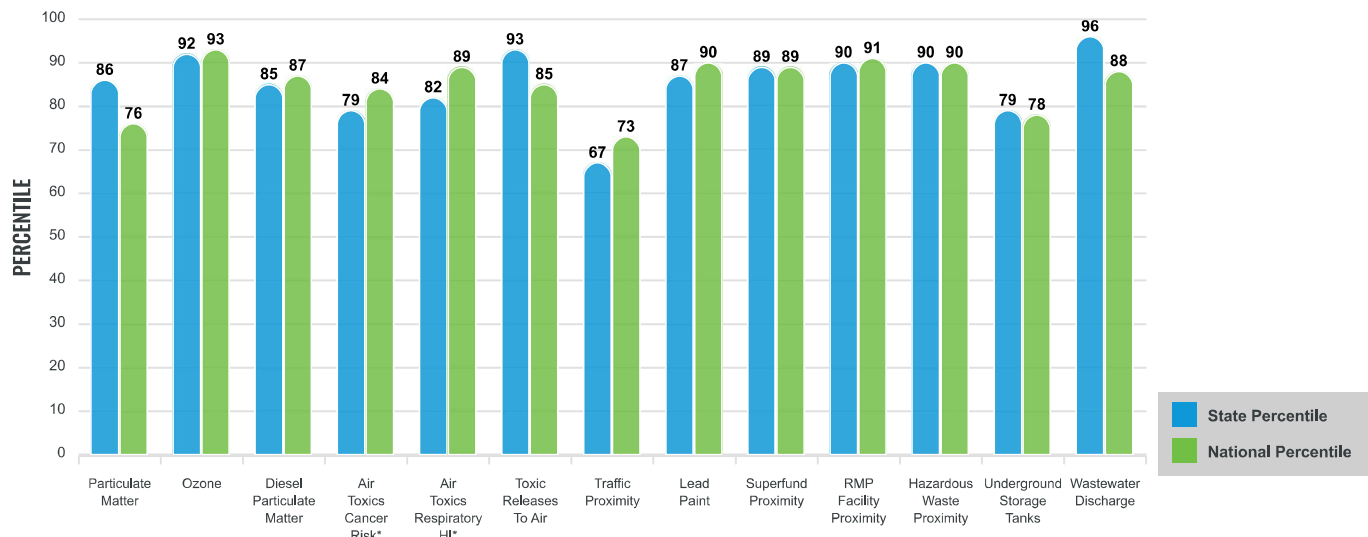
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

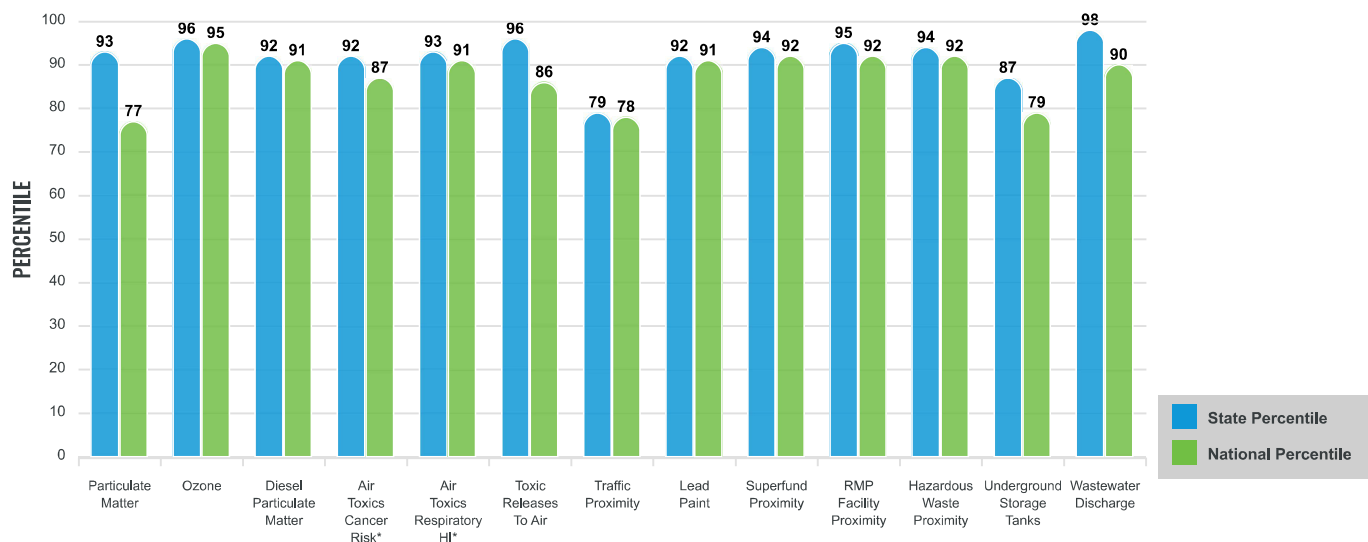
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.17	7.84	85	8.08	49
Ozone (ppb)	71.3	66	93	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.381	0.288	78	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,300	430	95	4,600	64
Traffic Proximity (daily traffic count/distance to road)	180	180	66	210	71
Lead Paint (% Pre-1960 Housing)	0.65	0.32	79	0.3	83
Superfund Proximity (site count/km distance)	0.2	0.13	85	0.13	86
RMP Facility Proximity (facility count/km distance)	1.8	0.42	94	0.43	95
Hazardous Waste Proximity (facility count/km distance)	5.8	2.1	89	1.9	91
Underground Storage Tanks (count/km ²)	2.5	1.9	72	3.9	63
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.074	1.2	92	22	80
SOCIOECONOMIC INDICATORS					
Demographic Index	56%	36%	78	35%	79
Supplemental Demographic Index	22%	12%	91	14%	83
People of Color	65%	49%	64	39%	75
Low Income	46%	22%	88	31%	77
Unemployment Rate	9%	6%	79	6%	77
Limited English Speaking Households	3%	3%	74	5%	70
Less Than High School Education	22%	10%	89	12%	83
Under Age 5	8%	6%	76	6%	76
Over Age 64	12%	16%	36	17%	34
Low Life Expectancy	26%	19%	92	20%	94

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	25
Air Pollution	67
Brownfields	6
Toxic Release Inventory	1

Other community features within defined area:

Schools	10
Hospitals	2
Places of Worship	25

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	26%	19%	92	20%	94
Heart Disease	6.4	5.3	78	6.1	56
Asthma	12.1	9.9	90	10	92
Cancer	5.4	6.1	37	6.1	33
Persons with Disabilities	16.6%	11.8%	83	13.4%	73

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	52	12%	36
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	24%	11%	88	14%	81
Lack of Health Insurance	8%	6%	77	9%	58
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



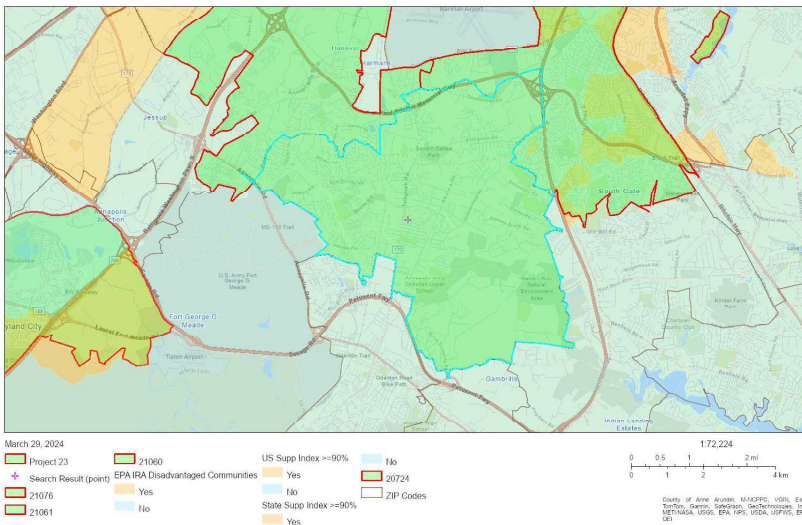
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

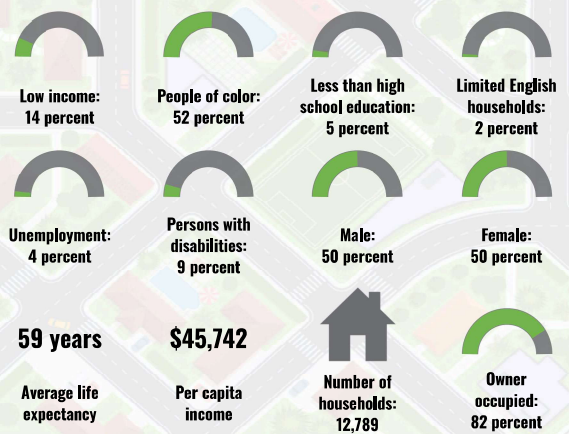
Severn, MD

the User Specified Area
Population: 36,454
Area in square miles: 15.89

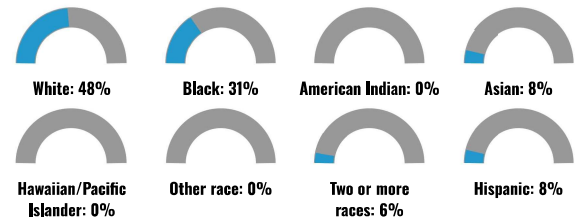
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	85%
Spanish	4%
French, Haitian, or Cajun	1%
German or other West Germanic	1%
Other Indo-European	2%
Korean	1%
Chinese (including Mandarin, Cantonese)	1%
Tagalog (including Filipino)	2%
Other Asian and Pacific Island	1%
Other and Unspecified	3%
Total Non-English	15%

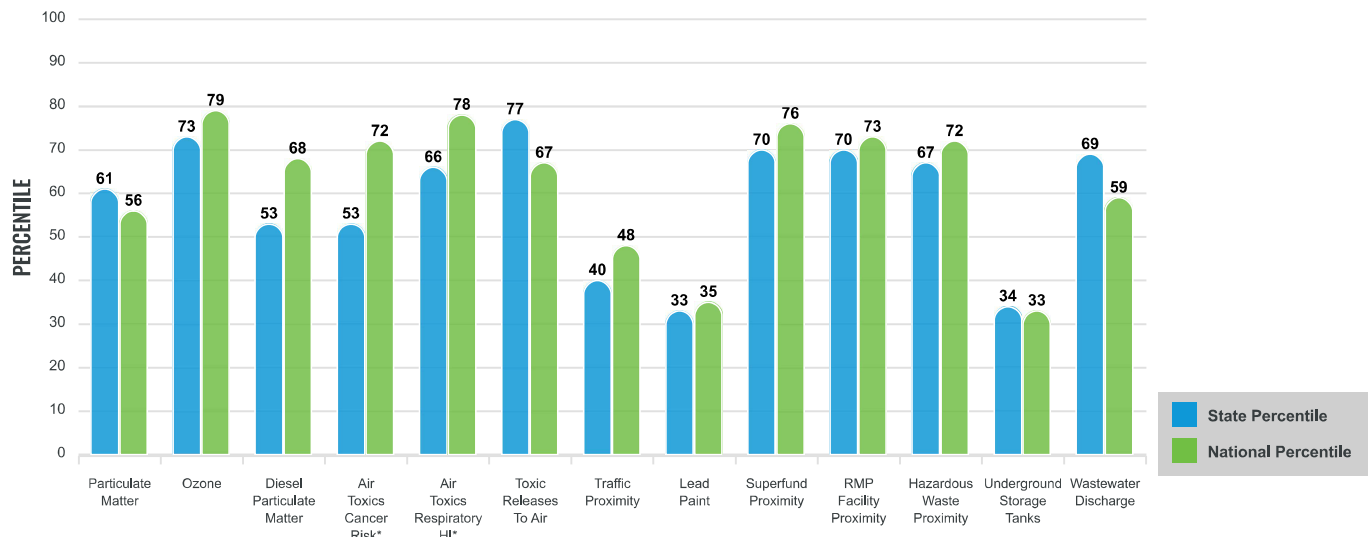
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

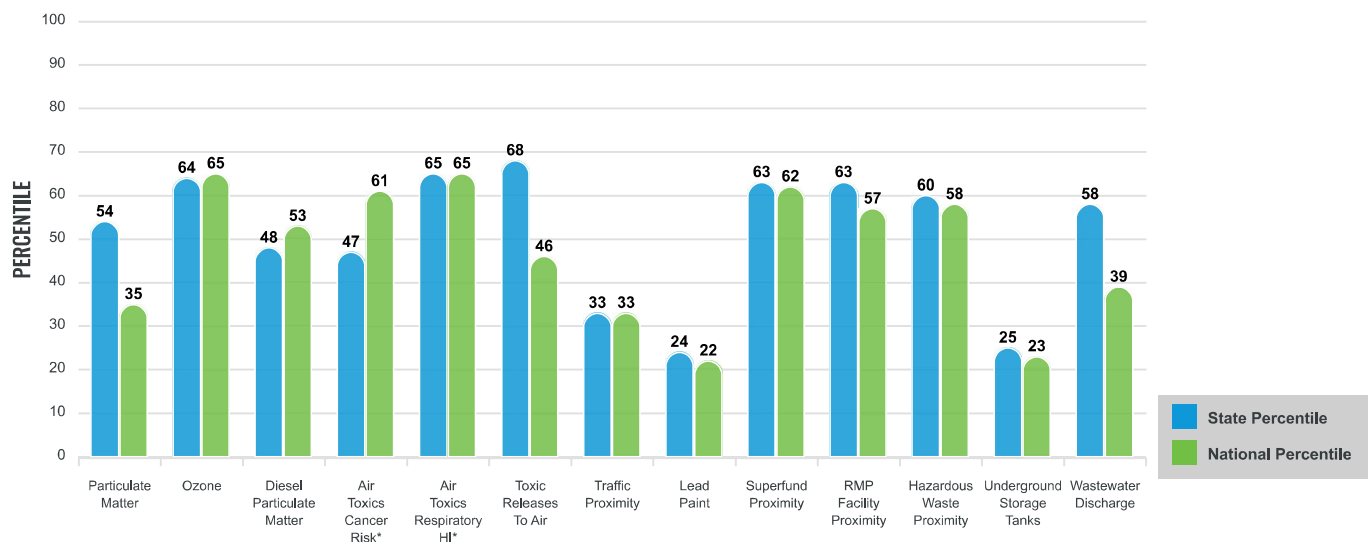
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.98	7.84	56	8.08	44
Ozone (ppb)	69.8	66	80	61.6	93
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.293	0.288	48	0.261	67
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	1,100	430	93	4,600	62
Traffic Proximity (daily traffic count/distance to road)	63	180	39	210	45
Lead Paint (% Pre-1960 Housing)	0.066	0.32	27	0.3	29
Superfund Proximity (site count/km distance)	0.2	0.13	85	0.13	85
RMP Facility Proximity (facility count/km distance)	0.65	0.42	80	0.43	81
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	0.45	1.9	37	3.9	38
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.018	1.2	86	22	72
SOCIOECONOMIC INDICATORS					
Demographic Index	33%	36%	51	35%	55
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	52%	49%	55	39%	67
Low Income	14%	22%	41	31%	25
Unemployment Rate	5%	6%	55	6%	55
Limited English Speaking Households	2%	3%	67	5%	64
Less Than High School Education	5%	10%	42	12%	38
Under Age 5	8%	6%	73	6%	73
Over Age 64	12%	16%	35	17%	34
Low Life Expectancy	14%	19%	8	20%	6

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	15
Air Pollution	19
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	5
Hospitals	0
Places of Worship	8

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	14%	19%	8	20%	6
Heart Disease	4.2	5.3	24	6.1	14
Asthma	9.4	9.9	38	10	33
Cancer	5.1	6.1	27	6.1	26
Persons with Disabilities	9%	11.8%	36	13.4%	25

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	49	12%	34
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	5%	11%	35	14%	26
Lack of Health Insurance	5%	6%	57	9%	37
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



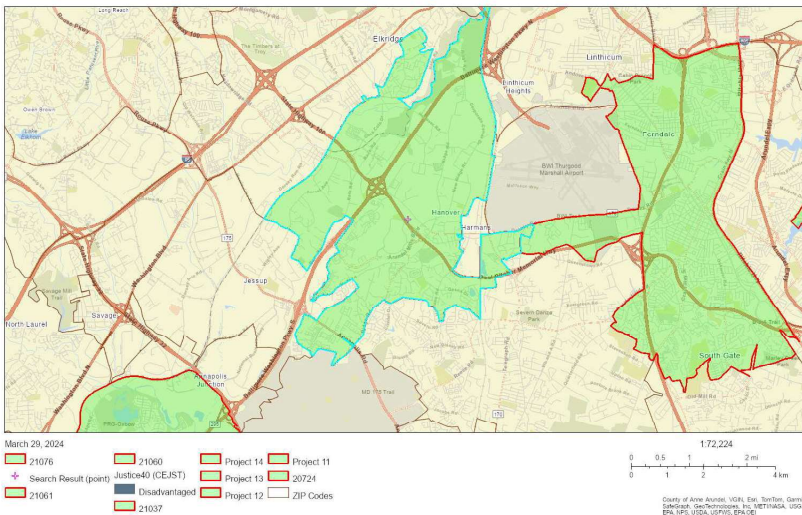
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Anne Arundel County, MD

the User Specified Area
Population: 20,900
Area in square miles: 12.81

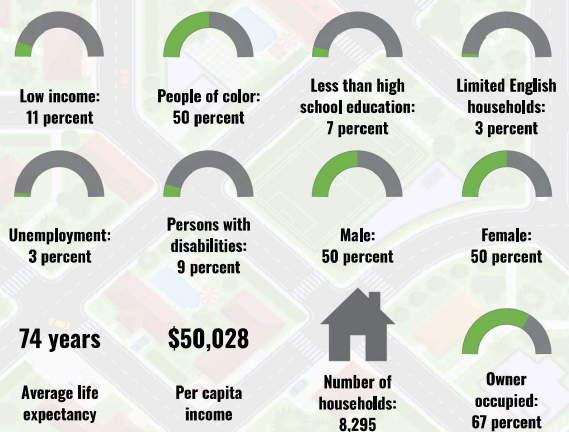
A3 Landscape



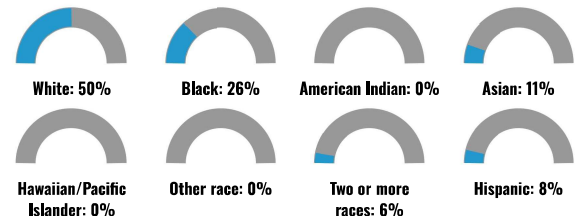
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	80%
Spanish	6%
Other Indo-European	3%
Korean	2%
Chinese (including Mandarin, Cantonese)	3%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	2%
Other and Unspecified	3%
Total Non-English	20%

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

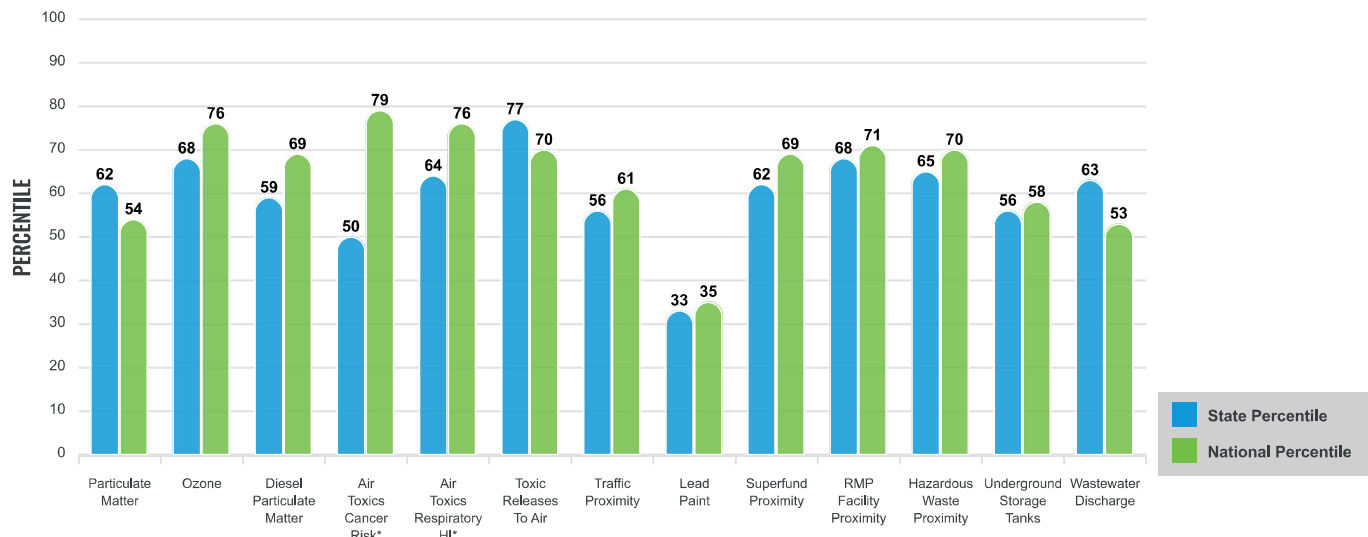
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

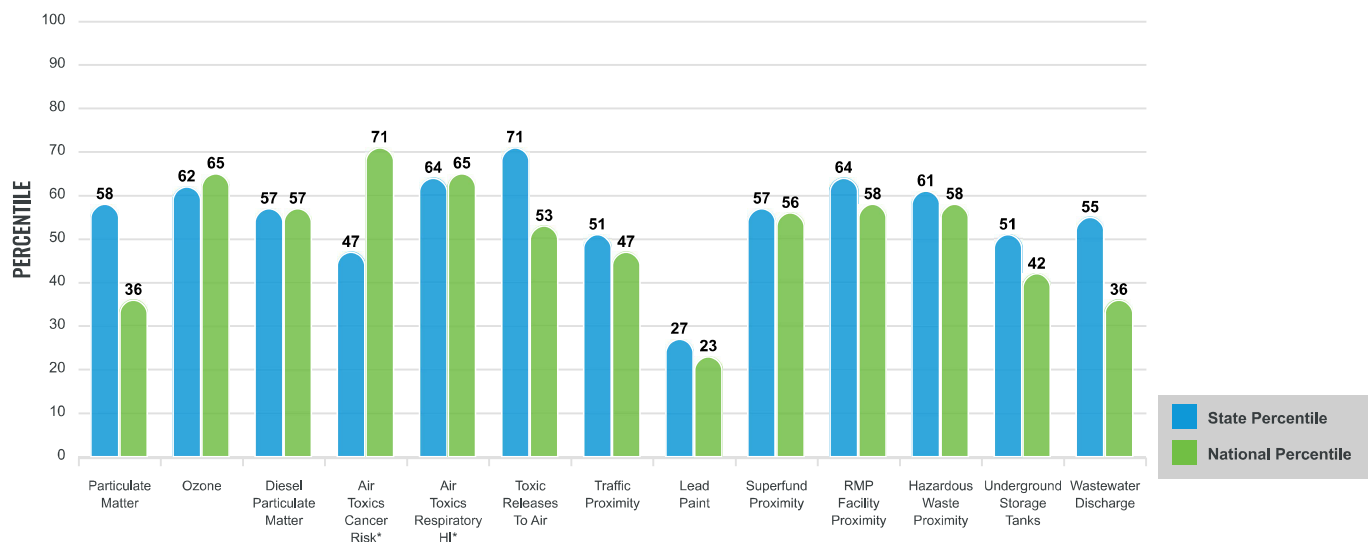
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.03	7.84	63	8.08	45
Ozone (ppb)	69.4	66	75	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.342	0.288	64	0.261	75
Air Toxics Cancer Risk* (lifetime risk per million)	36	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	2,000	430	98	4,600	72
Traffic Proximity (daily traffic count/distance to road)	170	180	65	210	70
Lead Paint (% Pre-1960 Housing)	0.09	0.32	32	0.3	33
Superfund Proximity (site count/km distance)	0.13	0.13	70	0.13	74
RMP Facility Proximity (facility count/km distance)	0.91	0.42	84	0.43	87
Hazardous Waste Proximity (facility count/km distance)	3.1	2.1	76	1.9	81
Underground Storage Tanks (count/km ²)	1.7	1.9	61	3.9	56
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.006	1.2	80	22	63
SOCIOECONOMIC INDICATORS					
Demographic Index	30%	36%	47	35%	52
Supplemental Demographic Index	8%	12%	35	14%	24
People of Color	50%	49%	53	39%	66
Low Income	11%	22%	35	31%	20
Unemployment Rate	3%	6%	44	6%	45
Limited English Speaking Households	3%	3%	71	5%	68
Less Than High School Education	7%	10%	50	12%	45
Under Age 5	6%	6%	60	6%	61
Over Age 64	11%	16%	33	17%	31
Low Life Expectancy	17%	19%	25	20%	22

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	40
Air Pollution	24
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	4
Hospitals	0
Places of Worship	3

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	25	20%	22
Heart Disease	3.8	5.3	16	6.1	9
Asthma	8.6	9.9	19	10	15
Cancer	5	6.1	24	6.1	24
Persons with Disabilities	8.7%	11.8%	33	13.4%	23

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	46	12%	33
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	2%	11%	22	14%	16
Lack of Health Insurance	4%	6%	48	9%	30
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



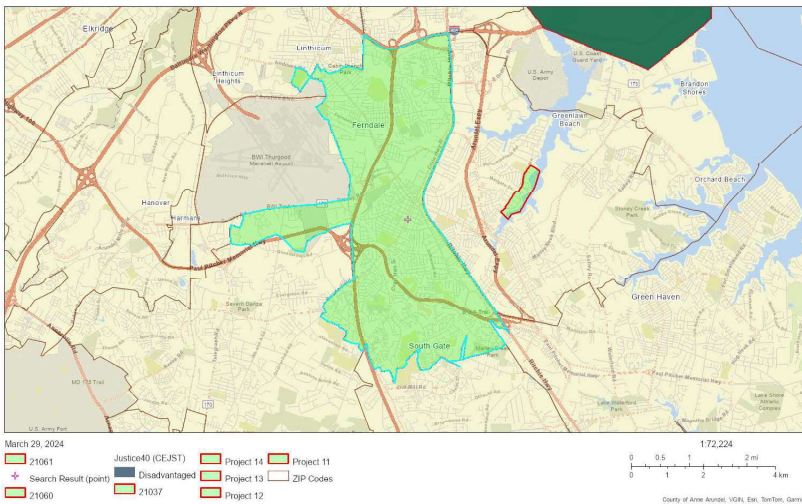
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

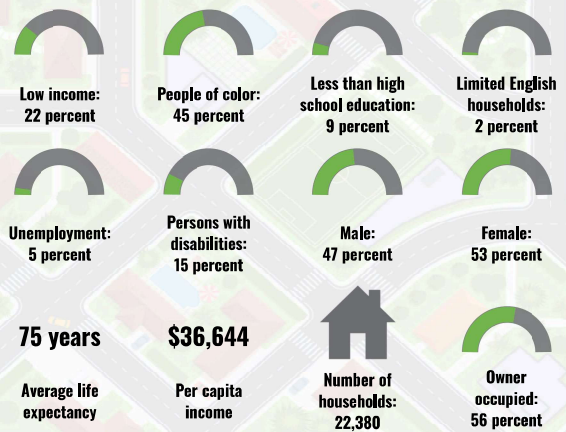
Glen Burnie, MD

the User Specified Area
Population: 55,763
Area in square miles: 12.08

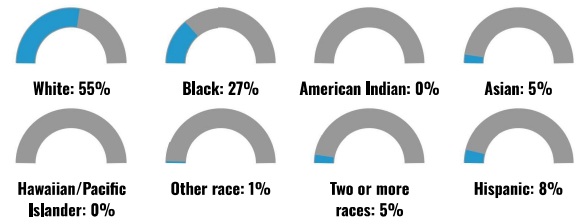
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	87%
Spanish	6%
French, Haitian, or Cajun	1%
Other Indo-European	2%
Tagalog (including Filipino)	2%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	13%

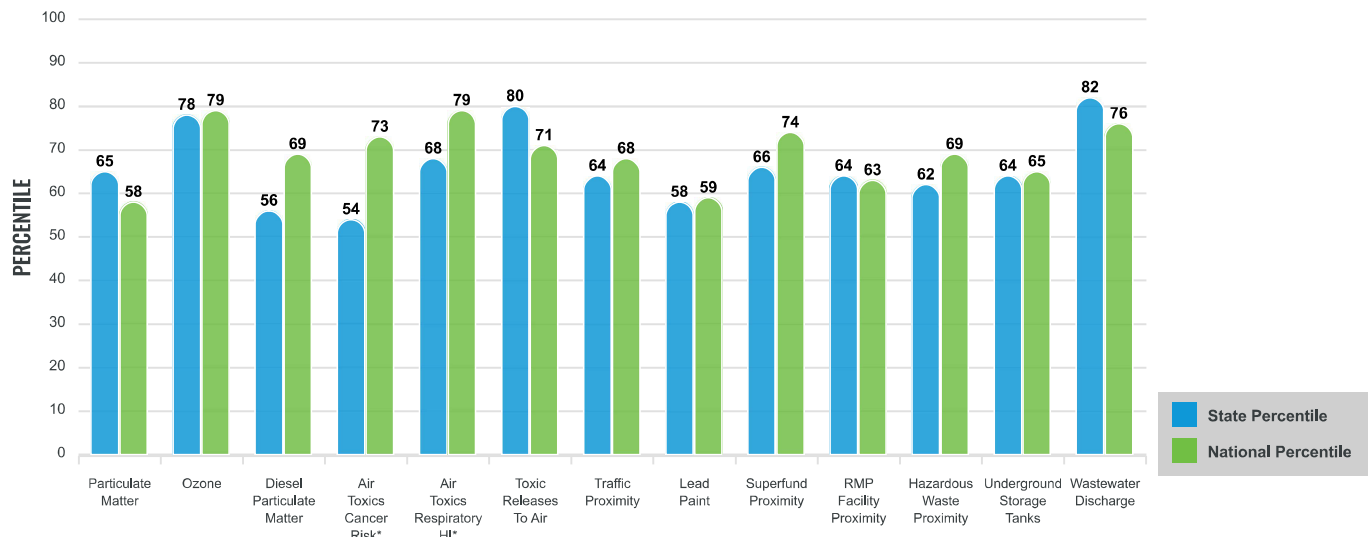
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

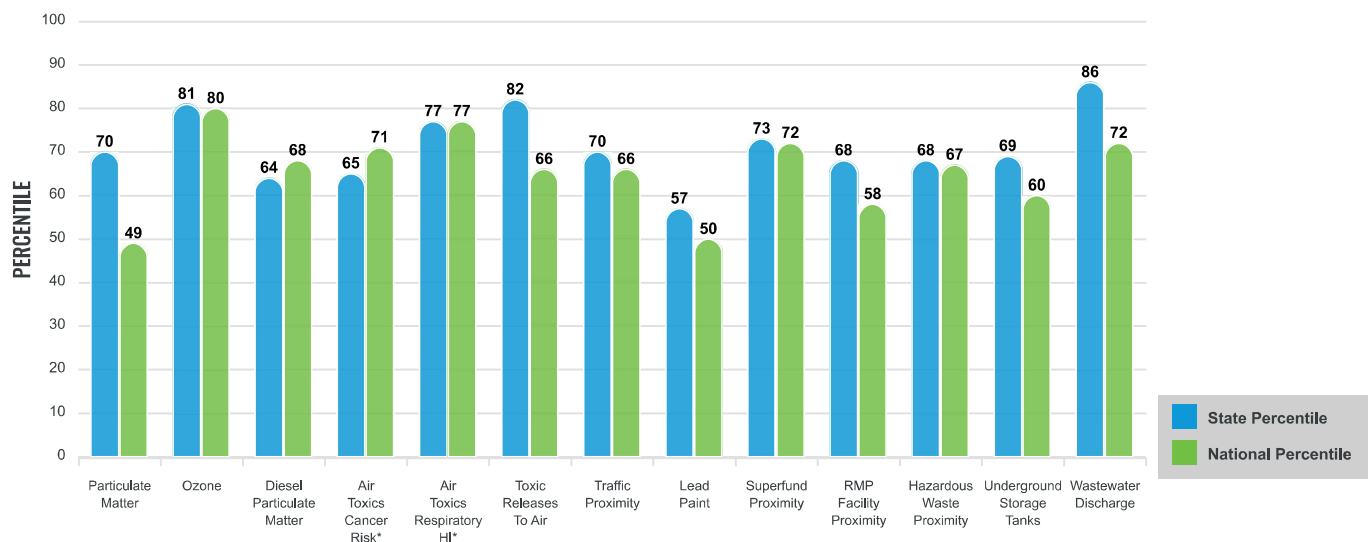
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.04	7.84	64	8.08	45
Ozone (ppb)	70.9	66	90	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.315	0.288	57	0.261	71
Air Toxics Cancer Risk* (lifetime risk per million)	31	28	18	25	52
Air Toxics Respiratory HI*	0.41	0.34	50	0.31	70
Toxic Releases to Air	1,500	430	97	4,600	67
Traffic Proximity (daily traffic count/distance to road)	310	180	81	210	83
Lead Paint (% Pre-1960 Housing)	0.27	0.32	56	0.3	55
Superfund Proximity (site count/km distance)	0.15	0.13	76	0.13	78
RMP Facility Proximity (facility count/km distance)	0.22	0.42	67	0.43	60
Hazardous Waste Proximity (facility count/km distance)	1.9	2.1	65	1.9	73
Underground Storage Tanks (count/km ²)	2.9	1.9	75	3.9	66
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.15	1.2	94	22	84
SOCIOECONOMIC INDICATORS					
Demographic Index	33%	36%	51	35%	56
Supplemental Demographic Index	12%	12%	58	14%	45
People of Color	45%	49%	49	39%	62
Low Income	22%	22%	58	31%	41
Unemployment Rate	5%	6%	58	6%	58
Limited English Speaking Households	2%	3%	65	5%	63
Less Than High School Education	9%	10%	59	12%	53
Under Age 5	6%	6%	61	6%	62
Over Age 64	13%	16%	44	17%	41
Low Life Expectancy	22%	19%	75	20%	70

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	4
Water Dischargers	40
Air Pollution	
.	102
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	13
Hospitals	2
Places of Worship	11

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	22%	19%	75	20%	70
Heart Disease	5.3	5.3	52	6.1	33
Asthma	9.6	9.9	48	10	43
Cancer	5.6	6.1	41	6.1	37
Persons with Disabilities	14.2%	11.8%	73	13.4%	61

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	62	12%	45
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	10%	11%	58	14%	45
Lack of Health Insurance	5%	6%	59	9%	38
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



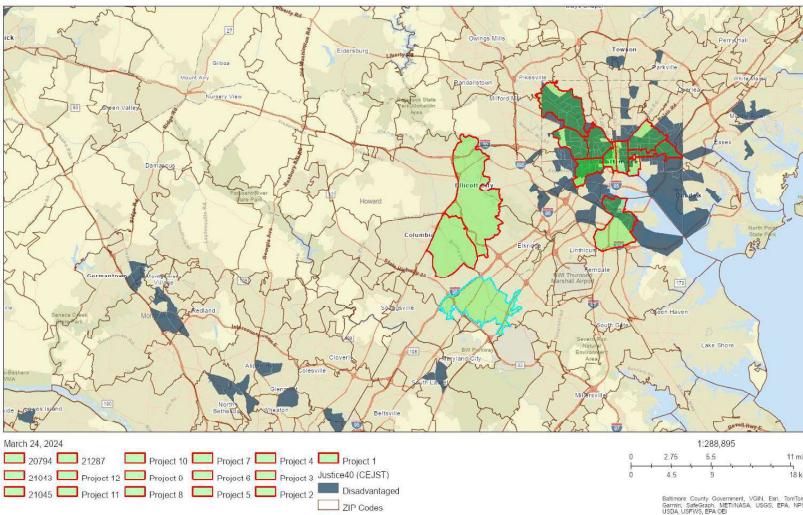
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Howard County, MD

the User Specified Area
Population: 17,082
Area in square miles: 10.39

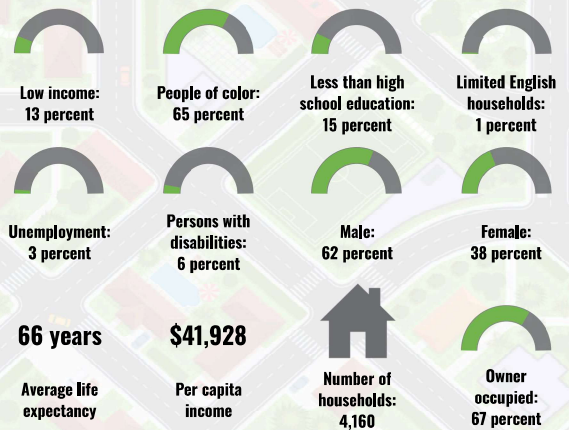
A3 Landscape



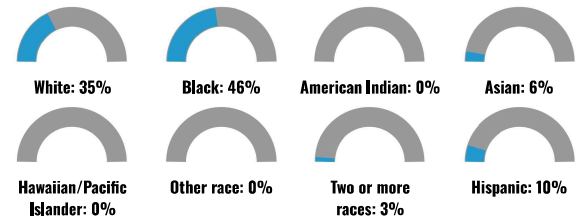
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	80%
Spanish	9%
French, Haitian, or Cajun	1%
Russian, Polish, or Other Slavic	1%
Other Indo-European	1%
Korean	3%
Chinese (including Mandarin, Cantonese)	1%
Other Asian and Pacific Island	1%
Other and Unspecified	2%
Total Non-English	20%

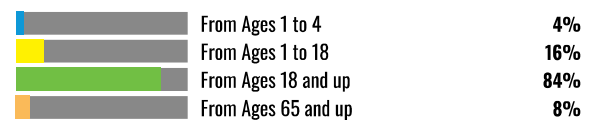
COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

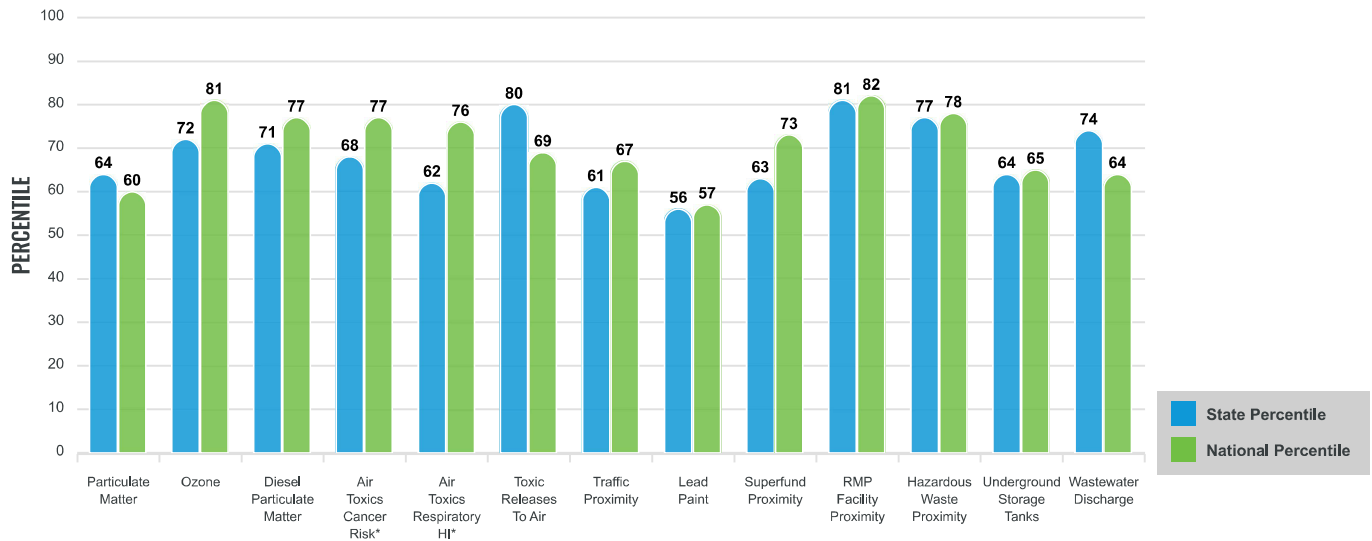
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

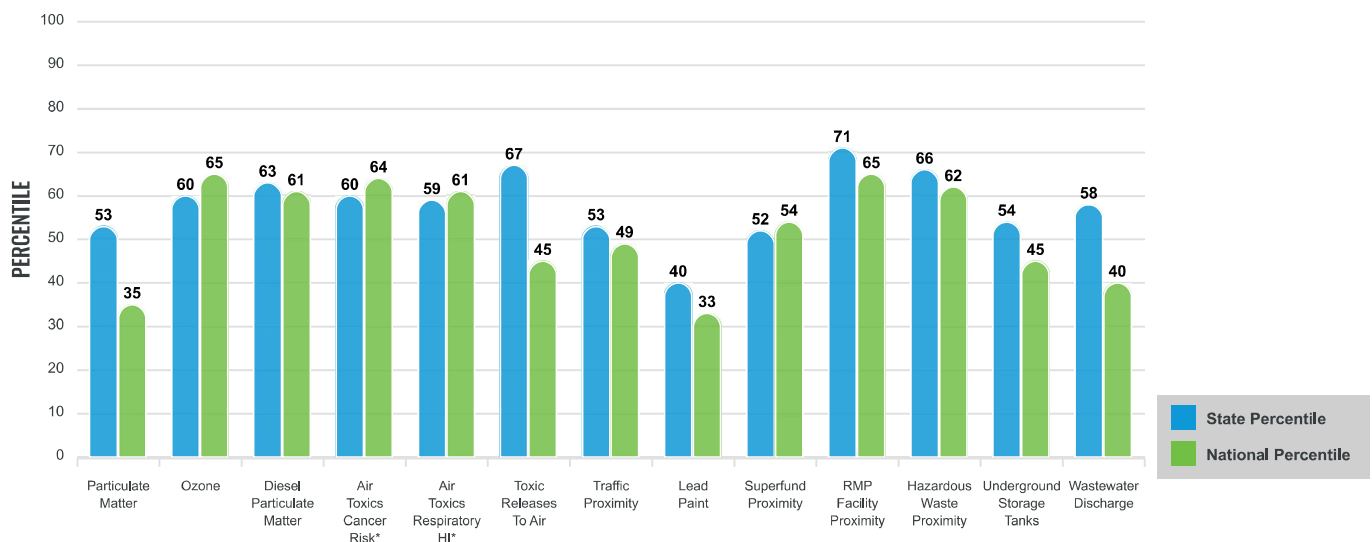
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.96	7.84	53	8.08	43
Ozone (ppb)	68.7	66	68	61.6	91
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.385	0.288	79	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	32	28	18	25	52
Air Toxics Respiratory HI*	0.37	0.34	7	0.31	31
Toxic Releases to Air	1,100	430	91	4,600	60
Traffic Proximity (daily traffic count/distance to road)	210	180	71	210	75
Lead Paint (% Pre-1960 Housing)	0.17	0.32	44	0.3	45
Superfund Proximity (site count/km distance)	0.1	0.13	59	0.13	68
RMP Facility Proximity (facility count/km distance)	3.5	0.42	99	0.43	99
Hazardous Waste Proximity (facility count/km distance)	4.9	2.1	86	1.9	89
Underground Storage Tanks (count/km ²)	1.6	1.9	61	3.9	55
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.012	1.2	84	22	69
SOCIOECONOMIC INDICATORS					
Demographic Index	38%	36%	56	35%	61
Supplemental Demographic Index	8%	12%	36	14%	24
People of Color	65%	49%	64	39%	75
Low Income	13%	22%	40	31%	24
Unemployment Rate	3%	6%	39	6%	40
Limited English Speaking Households	1%	3%	60	5%	59
Less Than High School Education	15%	10%	80	12%	73
Under Age 5	4%	6%	43	6%	44
Over Age 64	8%	16%	20	17%	19
Low Life Expectancy	13%	19%	7	20%	4

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	6
Water Dischargers	60
Air Pollution	43
Brownfields	0
Toxic Release Inventory	11

Other community features within defined area:

Schools	3
Hospitals	1
Places of Worship	7

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	13%	19%	7	20%	4
Heart Disease	3.5	5.3	11	6.1	7
Asthma	9	9.9	27	10	22
Cancer	4	6.1	10	6.1	11
Persons with Disabilities	9.2%	11.8%	38	13.4%	26

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	59	12%	42
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	7%	11%	47	14%	36
Lack of Health Insurance	5%	6%	61	9%	39
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



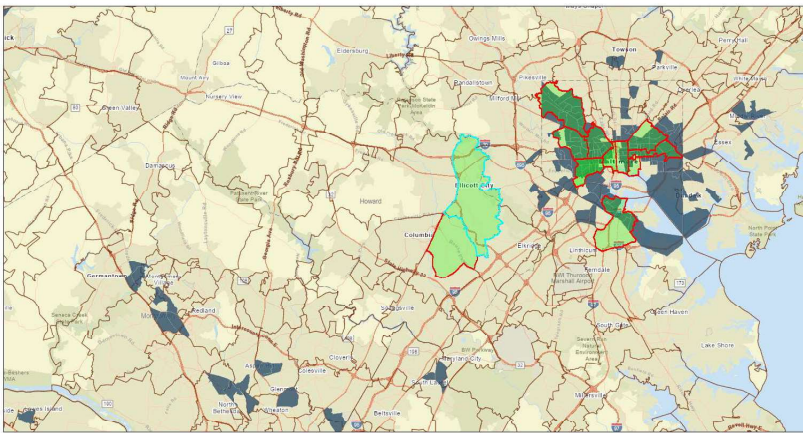
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Ellicott City, MD

the User Specified Area
Population: 47,625
Area in square miles: 17.37

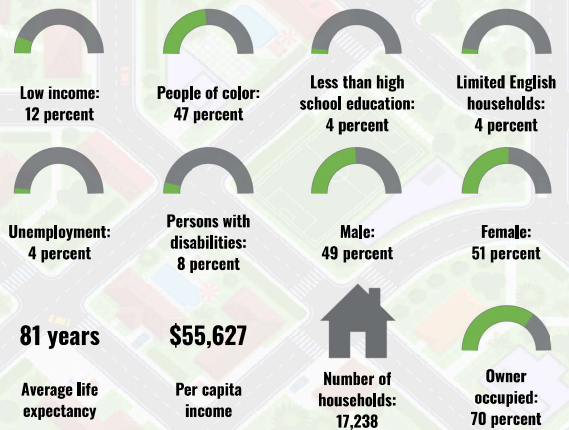
A3 Landscape



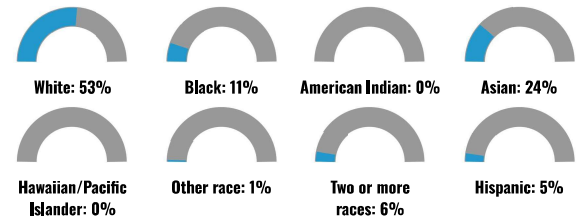
March 24, 2024
Legend:
Project 11, Project 7, Project 3, Justice40 (CEJST)
Project 10, Project 6, Project 2, Disadvantaged
Project 12, Project 9, Project 5, Project 1, ZIP Codes
Project 8, Project 4

Scale: 1:288,805
0 2.75 5.5 11 mi
0 4.5 9 18 km
Baltimore County Government, USGS, Esri, Garmin, IGN, Intermap, Inc., Mapbox, Microsoft, NOAA, OpenStreetMap, Swire, USGS, EPA, NPS, USDA, USFWS, EPA/CE

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	70%
Spanish	4%
French, Haitian, or Cajun	1%
Russian, Polish, or Other Slavic	1%
Other Indo-European	6%
Korean	5%
Chinese (including Mandarin, Cantonese)	3%
Vietnamese	1%
Other Asian and Pacific Island	5%
Arabic	2%
Other and Unspecified	1%
Total Non-English	30%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

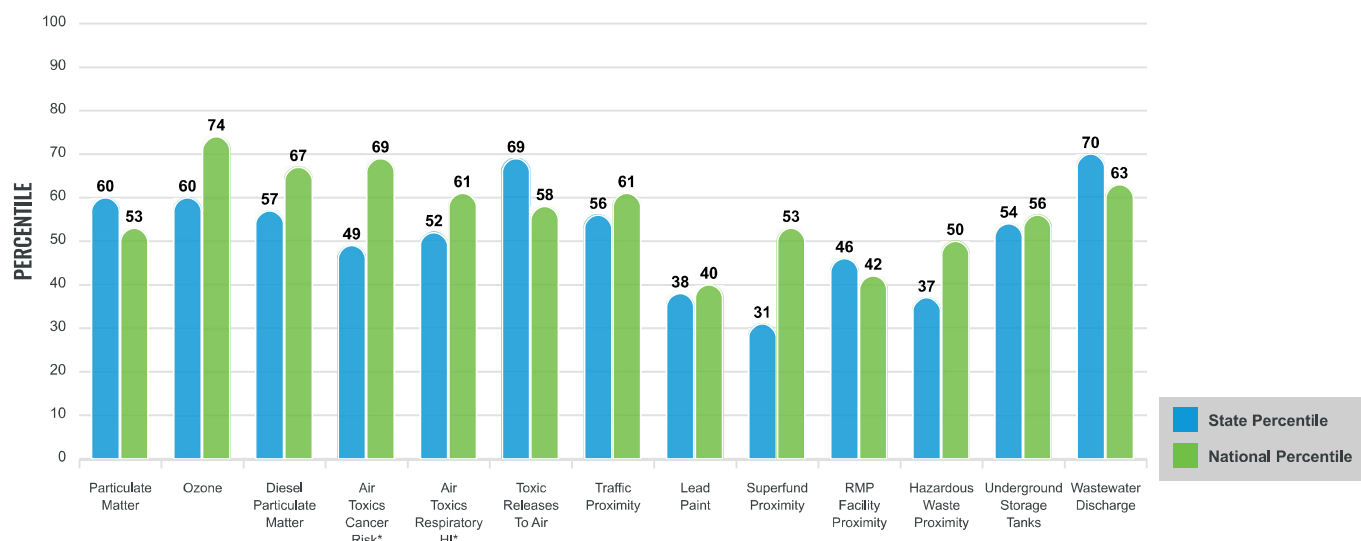
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

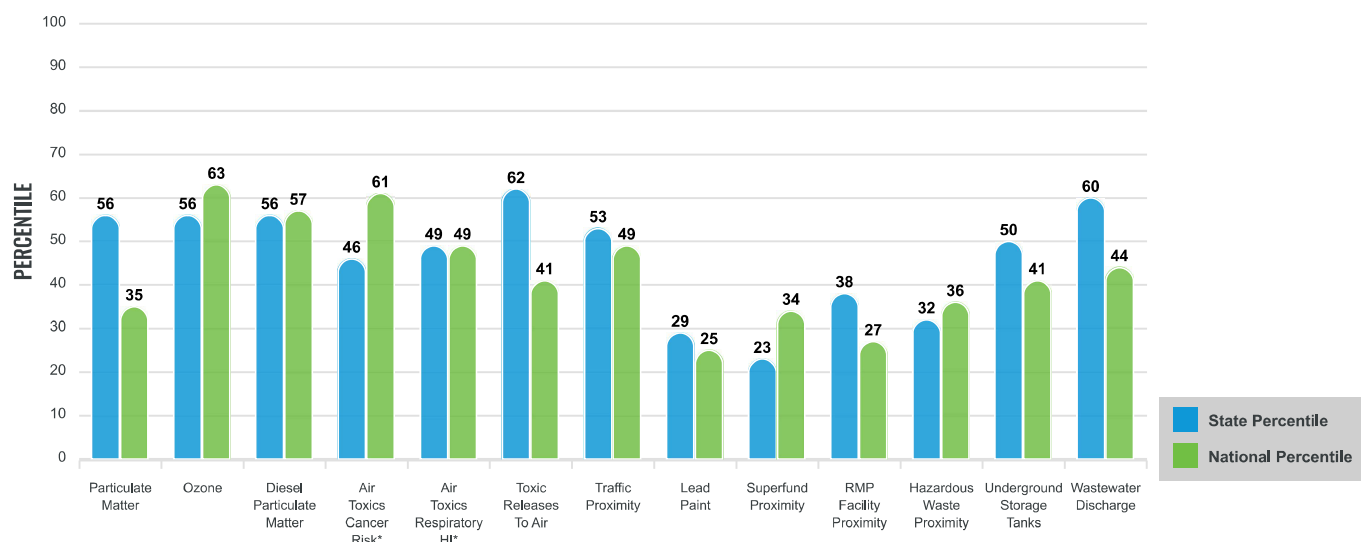
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.01	7.84	60	8.08	45
Ozone (ppb)	68.2	66	64	61.6	89
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.336	0.288	62	0.261	75
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.34	0.34	7	0.31	31
Toxic Releases to Air	770	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	170	180	66	210	71
Lead Paint (% Pre-1960 Housing)	0.083	0.32	31	0.3	32
Superfund Proximity (site count/km distance)	0.051	0.13	24	0.13	44
RMP Facility Proximity (facility count/km distance)	0.13	0.42	49	0.43	39
Hazardous Waste Proximity (facility count/km distance)	0.52	2.1	36	1.9	50
Underground Storage Tanks (count/km ²)	1.5	1.9	58	3.9	53
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.031	1.2	88	22	75
SOCIOECONOMIC INDICATORS					
Demographic Index	30%	36%	46	35%	50
Supplemental Demographic Index	8%	12%	34	14%	23
People of Color	47%	49%	51	39%	64
Low Income	12%	22%	38	31%	22
Unemployment Rate	4%	6%	47	6%	48
Limited English Speaking Households	4%	3%	77	5%	72
Less Than High School Education	4%	10%	30	12%	28
Under Age 5	5%	6%	55	6%	56
Over Age 64	13%	16%	40	17%	38
Low Life Expectancy	17%	19%	29	20%	27

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	28
Air Pollution	44
Brownfields	0
Toxic Release Inventory	2

Other community features within defined area:

Schools	8
Hospitals	3
Places of Worship	17

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	29	20%	27
Heart Disease	3.9	5.3	16	6.1	9
Asthma	8.1	9.9	10	10	7
Cancer	5.5	6.1	39	6.1	35
Persons with Disabilities	7.5%	11.8%	22	13.4%	15

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	54	12%	38
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	4%	11%	34	14%	24
Lack of Health Insurance	3%	6%	26	9%	16
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

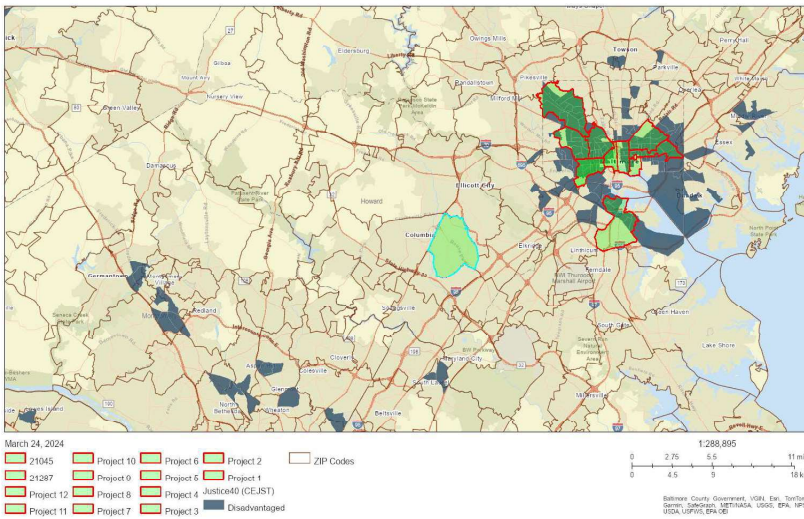
Columbia, MD

the User Specified Area

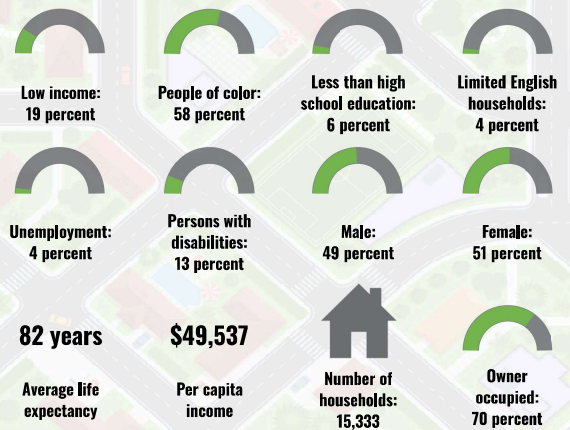
Population: 40,612

Area in square miles: 9.83

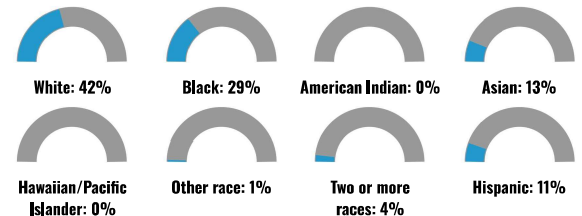
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	75%
Spanish	9%
French, Haitian, or Cajun	1%
Other Indo-European	5%
Korean	2%
Chinese (including Mandarin, Cantonese)	2%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	25%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

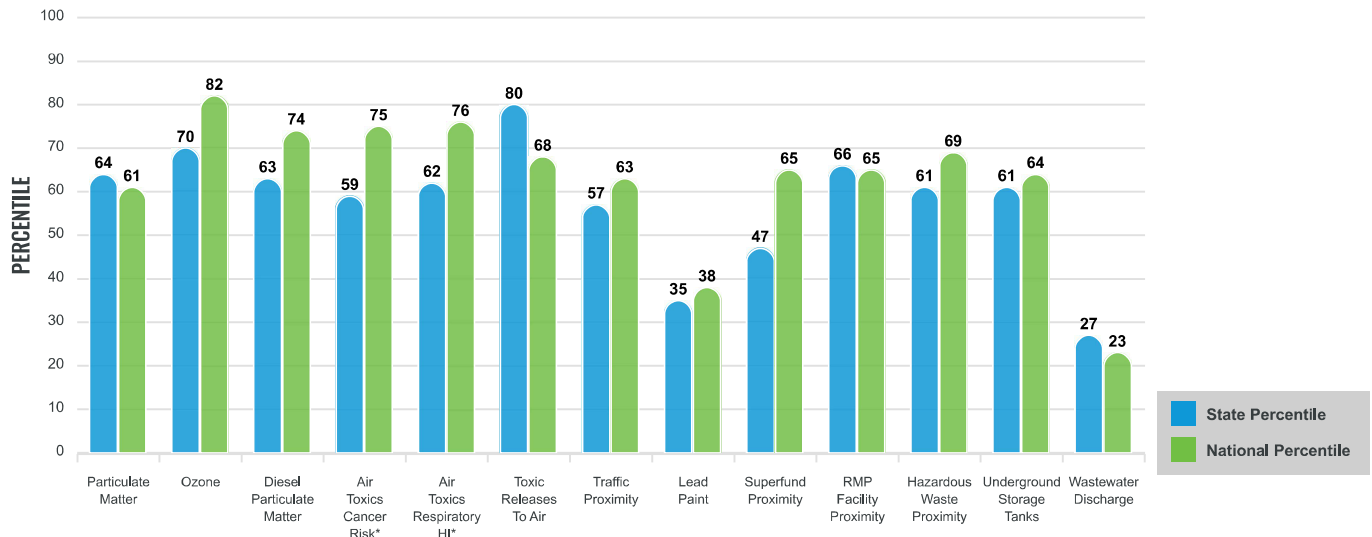
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

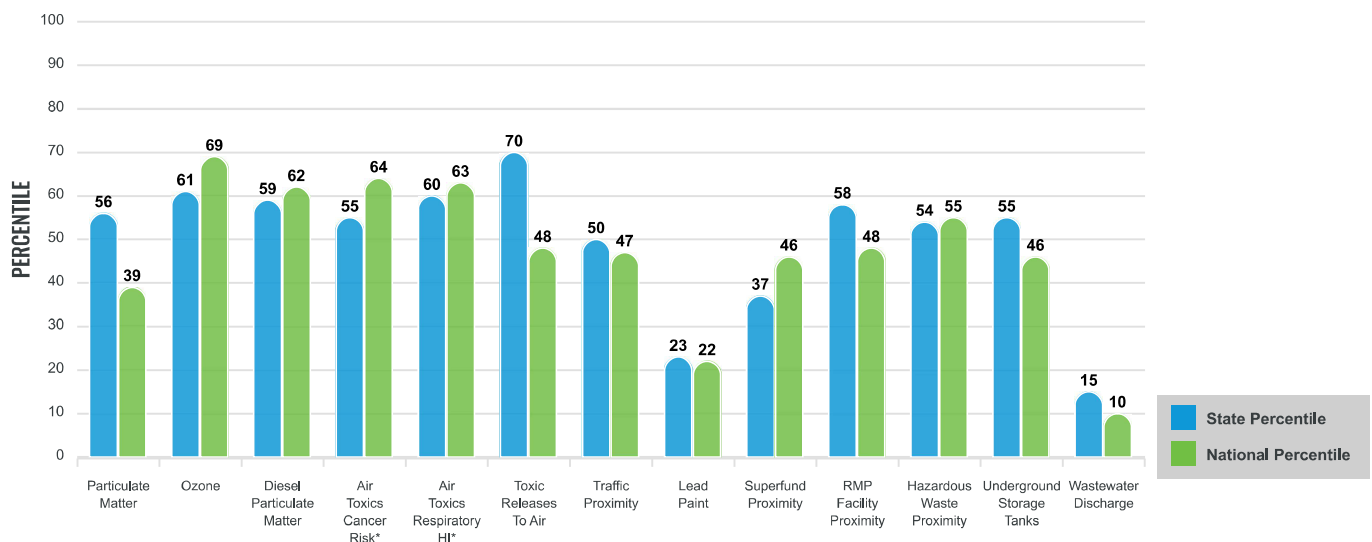
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.95	7.84	52	8.08	43
Ozone (ppb)	68.1	66	64	61.6	89
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.331	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.37	0.34	7	0.31	31
Toxic Releases to Air	780	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	110	180	52	210	58
Lead Paint (% Pre-1960 Housing)	0.037	0.32	19	0.3	23
Superfund Proximity (site count/km distance)	0.06	0.13	32	0.13	50
RMP Facility Proximity (facility count/km distance)	0.25	0.42	69	0.43	63
Hazardous Waste Proximity (facility count/km distance)	1.3	2.1	56	1.9	65
Underground Storage Tanks (count/km ²)	1.5	1.9	59	3.9	54
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00077	1.2	66	22	46
SOCIOECONOMIC INDICATORS					
Demographic Index	39%	36%	57	35%	62
Supplemental Demographic Index	10%	12%	45	14%	32
People of Color	58%	49%	60	39%	71
Low Income	19%	22%	52	31%	35
Unemployment Rate	4%	6%	48	6%	49
Limited English Speaking Households	4%	3%	78	5%	73
Less Than High School Education	6%	10%	44	12%	40
Under Age 5	7%	6%	67	6%	67
Over Age 64	17%	16%	57	17%	55
Low Life Expectancy	15%	19%	15	20%	12

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	32
Air Pollution	50
Brownfields	0
Toxic Release Inventory	5

Other community features within defined area:

Schools	12
Hospitals	0
Places of Worship	9

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	15%	19%	15	20%	12
Heart Disease	4.2	5.3	21	6.1	13
Asthma	9.1	9.9	29	10	25
Cancer	5.4	6.1	34	6.1	31
Persons with Disabilities	11.9%	11.8%	58	13.4%	46

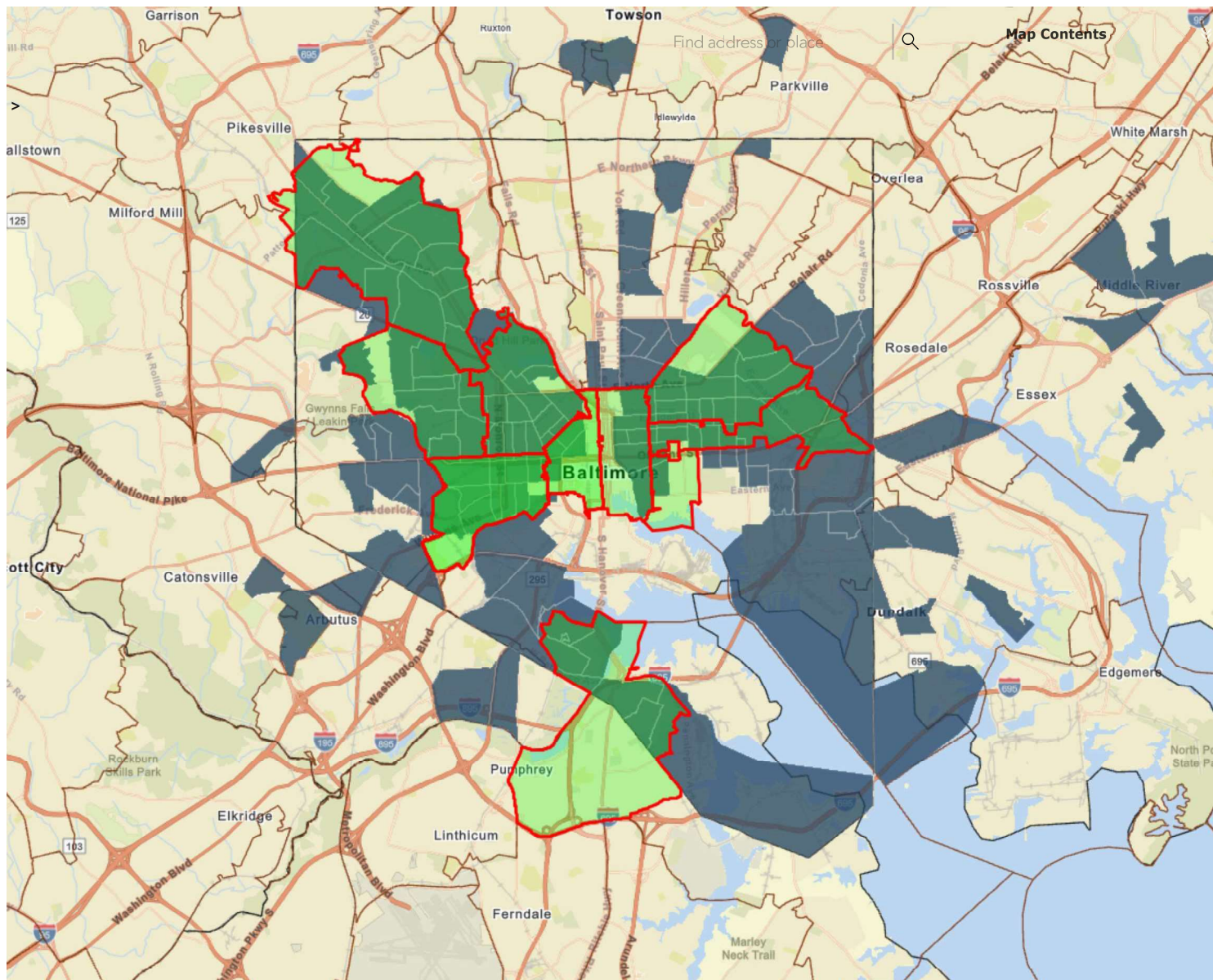
CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	45	12%	32
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	5%	11%	38	14%	27
Lack of Health Insurance	6%	6%	66	9%	45
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EnviroMapper®

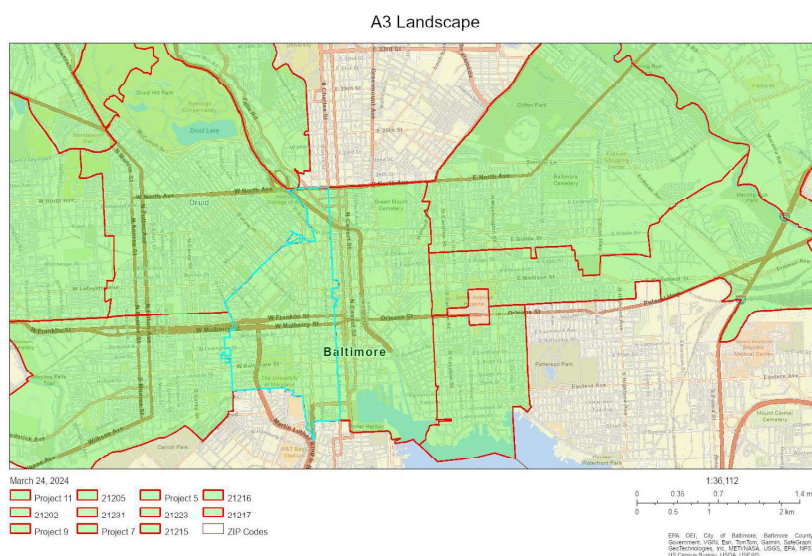
Baltimore County Government, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS | EPA OEI | Coun... Powered by Esri (<http://www.esri.com/>)

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

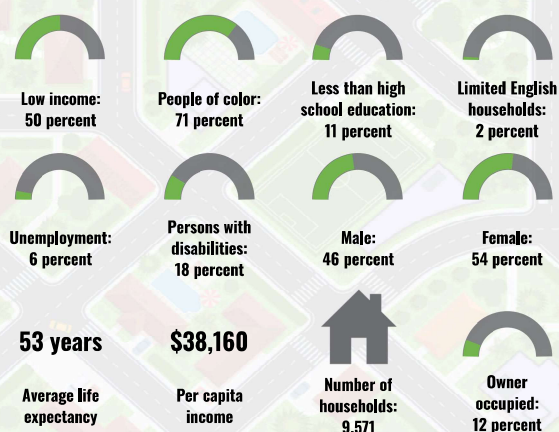
the User Specified Area

Population: 17,405

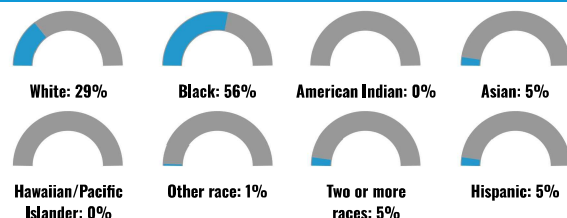
Area in square miles: 1.23



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGE	PERCENT
English	88%
Spanish	3%
French, Haitian, or Cajun	1%
Other Indo-European	2%
Korean	1%
Chinese (including Mandarin, Cantonese)	2%
Other Asian and Pacific Island	1%
Arabic	1%
Other and Unspecified	1%
Total Non-English	12%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

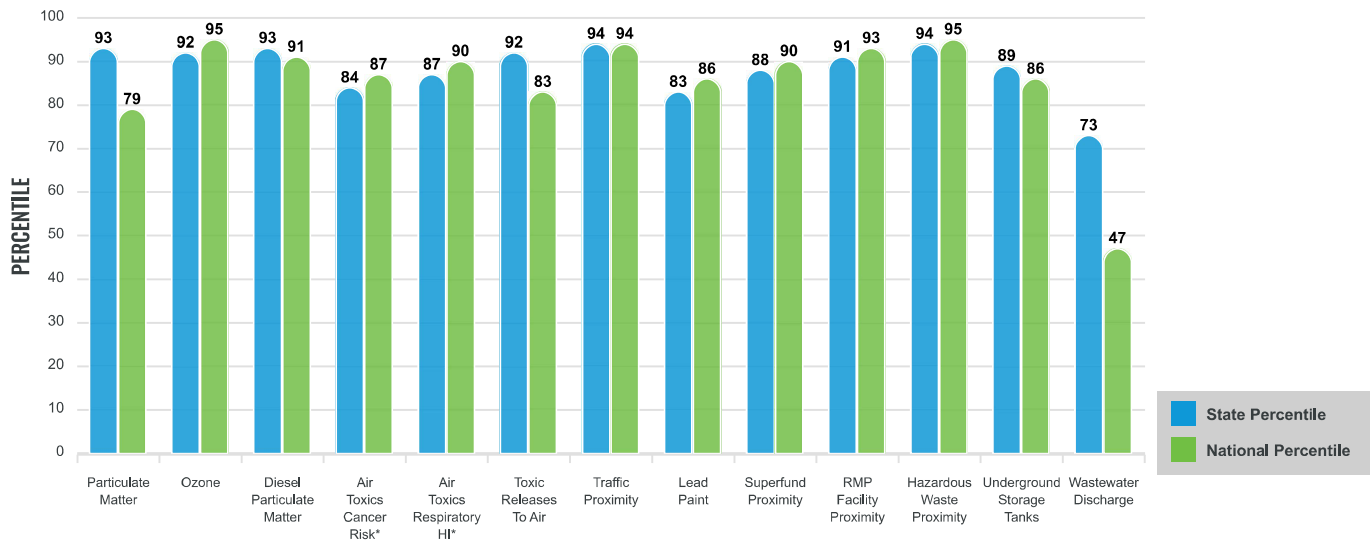
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

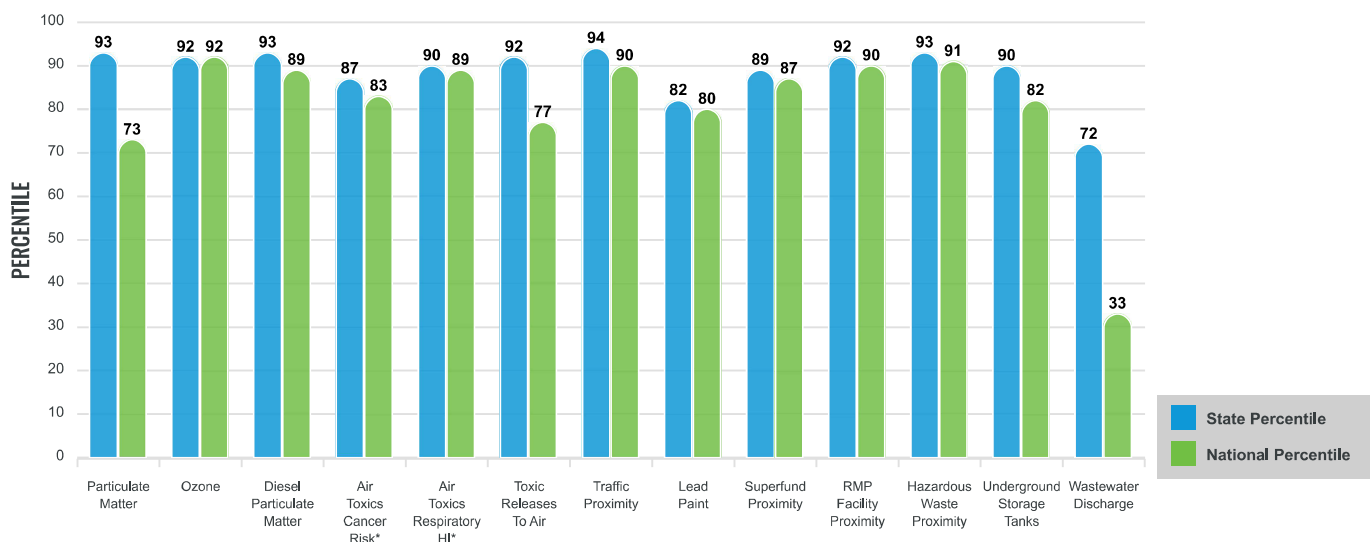
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.23	7.84	98	8.08	51
Ozone (ppb)	70.3	66	85	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.427	0.288	92	0.261	86
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	800	430	86	4,600	55
Traffic Proximity (daily traffic count/distance to road)	1,100	180	98	210	96
Lead Paint (% Pre-1960 Housing)	0.47	0.32	70	0.3	71
Superfund Proximity (site count/km distance)	0.14	0.13	74	0.13	77
RMP Facility Proximity (facility count/km distance)	1.4	0.42	89	0.43	92
Hazardous Waste Proximity (facility count/km distance)	14	2.1	99	1.9	98
Underground Storage Tanks (count/km ²)	4.9	1.9	88	3.9	77
Wastewater Discharge (toxicity-weighted concentration/m distance)	4E-05	1.2	46	22	25
SOCIOECONOMIC INDICATORS					
Demographic Index	61%	36%	84	35%	84
Supplemental Demographic Index	19%	12%	86	14%	76
People of Color	71%	49%	68	39%	78
Low Income	50%	22%	90	31%	81
Unemployment Rate	6%	6%	64	6%	64
Limited English Speaking Households	2%	3%	63	5%	62
Less Than High School Education	11%	10%	69	12%	62
Under Age 5	4%	6%	43	6%	44
Over Age 64	10%	16%	27	17%	25
Low Life Expectancy	20%	19%	60	20%	53

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	4
Water Dischargers	15
Air Pollution	77
Brownfields	3
Toxic Release Inventory	0

Other community features within defined area:

Schools	4
Hospitals	3
Places of Worship	17

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	20%	19%	60	20%	53
Heart Disease	5.1	5.3	46	6.1	28
Asthma	12.1	9.9	89	10	91
Cancer	4.3	6.1	13	6.1	14
Persons with Disabilities	17.4%	11.8%	86	13.4%	77

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	43	12%	31
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	17%	11%	79	14%	68
Lack of Health Insurance	3%	6%	37	9%	23
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for the User Specified Area

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

the User Specified Area
Population: 14,710
Area in square miles: 2.11



LANGUAGE	PERCENT
English	77%
Spanish	13%
Chinese (including Mandarin, Cantonese)	2%
Other Asian and Pacific Island	2%
Arabic	4%
Other and Unspecified	1%
Total Non-English	23%

Category	Value
Low income:	58 percent
People of color:	88 percent
Less than high school education:	25 percent
Limited English households:	4 percent
Unemployment:	12 percent
Persons with disabilities:	23 percent
Male:	47 percent
Female:	53 percent
Average life expectancy	40 years
Per capita income	\$18,340
Number of households:	5,226
Owner occupied:	34 percent

Race/Ethnicity	Percentage
White	12%
Black	64%
American Indian	1%
Asian	3%
Hawaiian/Pacific Islander	0%
Other race	0%
Two or more races	5%
Hispanic	15%

Age Group	Percentage
From Ages 1 to 4	10%
From Ages 1 to 18	30%
From Ages 18 and up	70%
From Ages 65 and up	12%

<div><div></div></div>	Speak Spanish	67%
<div><div></div></div>	Speak Other Indo-European Languages	0%
<div><div></div></div>	Speak Asian-Pacific Island Languages	33%
<div><div></div></div>	Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

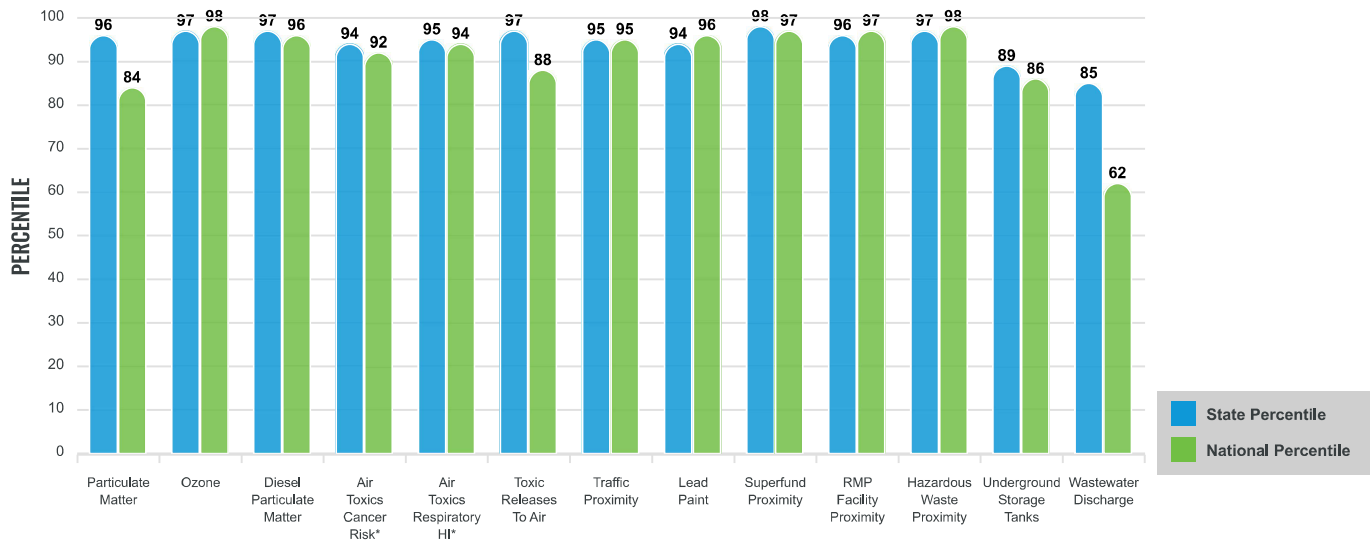
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

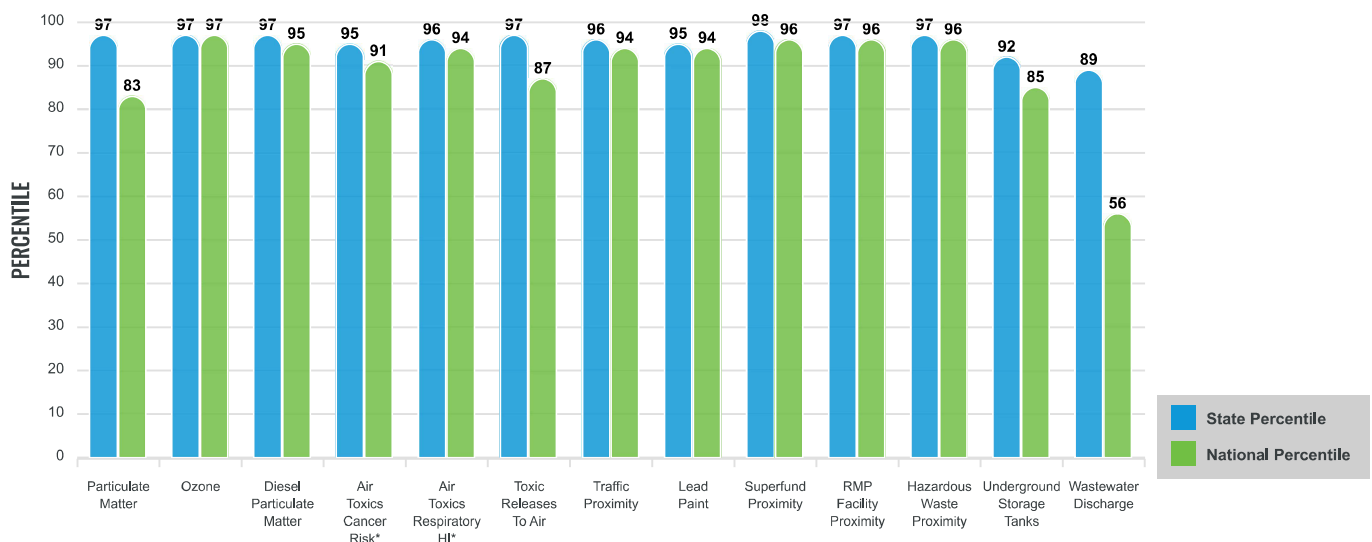
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.21	7.84	93	8.08	50
Ozone (ppb)	71.1	66	91	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.43	0.288	93	0.261	86
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	870	430	88	4,600	56
Traffic Proximity (daily traffic count/distance to road)	370	180	85	210	86
Lead Paint (% Pre-1960 Housing)	0.71	0.32	82	0.3	86
Superfund Proximity (site count/km distance)	0.46	0.13	95	0.13	94
RMP Facility Proximity (facility count/km distance)	2.1	0.42	96	0.43	96
Hazardous Waste Proximity (facility count/km distance)	11	2.1	97	1.9	96
Underground Storage Tanks (count/km ²)	3.1	1.9	77	3.9	68
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00018	1.2	56	22	34
SOCIOECONOMIC INDICATORS					
Demographic Index	73%	36%	94	35%	92
Supplemental Demographic Index	26%	12%	95	14%	90
People of Color	88%	49%	80	39%	87
Low Income	58%	22%	93	31%	87
Unemployment Rate	12%	6%	88	6%	86
Limited English Speaking Households	4%	3%	75	5%	71
Less Than High School Education	25%	10%	91	12%	87
Under Age 5	10%	6%	86	6%	86
Over Age 64	12%	16%	38	17%	36
Low Life Expectancy	23%	19%	80	20%	78

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	3
Water Dischargers	23
Air Pollution	41
Brownfields	2
Toxic Release Inventory	7

Other community features within defined area:

Schools	6
Hospitals	1
Places of Worship	32

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	19%	80	20%	78
Heart Disease	6.6	5.3	82	6.1	62
Asthma	13.8	9.9	96	10	98
Cancer	5	6.1	24	6.1	24
Persons with Disabilities	20.1%	11.8%	92	13.4%	86

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	61	12%	43
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	30%	11%	93	14%	88
Lack of Health Insurance	8%	6%	75	9%	55
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



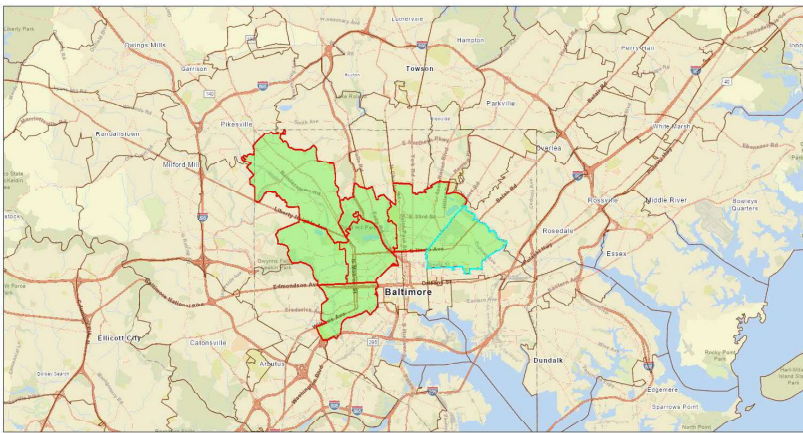
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Baltimore, MD

the User Specified Area
Population: 29,155
Area in square miles: 3.48

A3 Landscape



March 24, 2024
Project 7 Project 5 21215 21217
Project 6 21233 21216 ZIP Codes

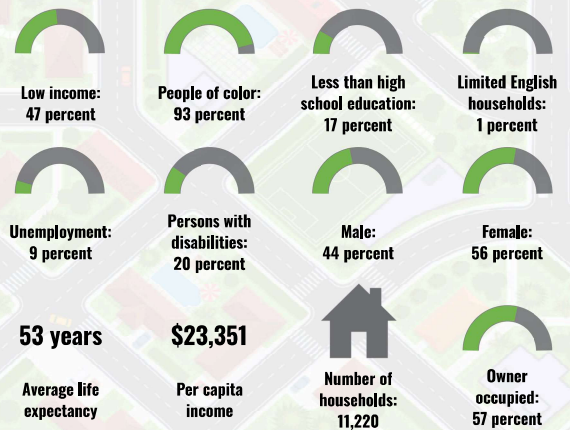
0 1.25 2.5 5 mi
0 2.25 4.5 8 km

City of Baltimore, Baltimore County Government, VDOT, Esri, DeLorme, Garmin, GeoEye, GeoNames, Mapbox, Microsoft, NOAA, OpenStreetMap, Swire, USGS, EPA, NPS, USDA, USFWS, USDOJ

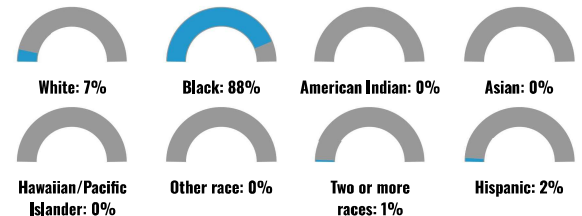
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	95%
Spanish	3%
Total Non-English	5%

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

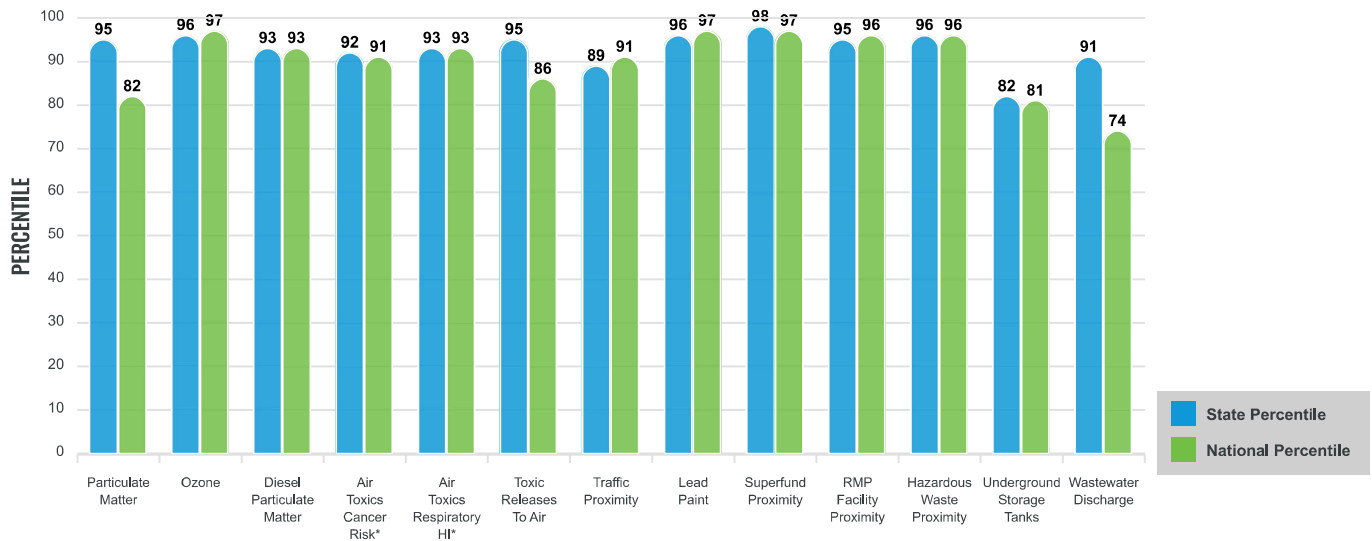
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

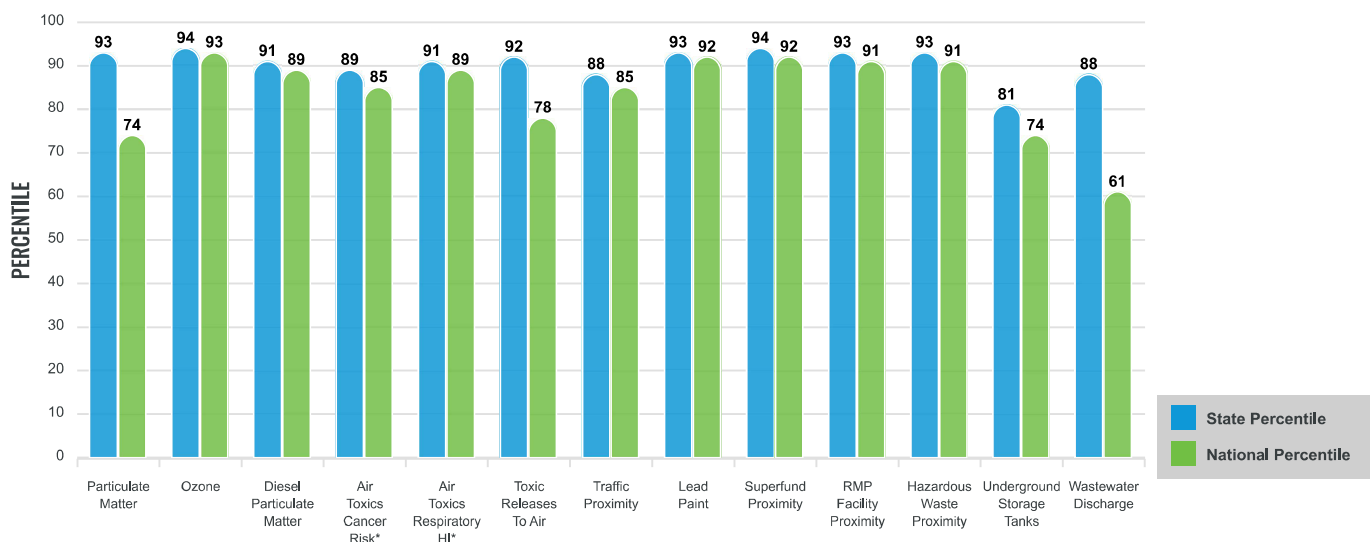
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	91	8.08	50
Ozone (ppb)	70.8	66	89	61.6	95
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.386	0.288	79	0.261	81
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	780	430	85	4,600	54
Traffic Proximity (daily traffic count/distance to road)	250	180	76	210	79
Lead Paint (% Pre-1960 Housing)	0.84	0.32	90	0.3	94
Superfund Proximity (site count/km distance)	0.38	0.13	94	0.13	93
RMP Facility Proximity (facility count/km distance)	1.6	0.42	92	0.43	94
Hazardous Waste Proximity (facility count/km distance)	7.3	2.1	93	1.9	93
Underground Storage Tanks (count/km ²)	2.2	1.9	69	3.9	61
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00057	1.2	64	22	44
SOCIOECONOMIC INDICATORS					
Demographic Index	70%	36%	92	35%	90
Supplemental Demographic Index	20%	12%	88	14%	78
People of Color	93%	49%	84	39%	90
Low Income	47%	22%	89	31%	78
Unemployment Rate	9%	6%	79	6%	77
Limited English Speaking Households	1%	3%	58	5%	57
Less Than High School Education	17%	10%	83	12%	76
Under Age 5	5%	6%	52	6%	53
Over Age 64	13%	16%	43	17%	41
Low Life Expectancy	23%	19%	82	20%	81

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	15
Air Pollution	80
Brownfields	8
Toxic Release Inventory	5

Other community features within defined area:

Schools	12
Hospitals	1
Places of Worship	54

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	19%	82	20%	81
Heart Disease	6.3	5.3	77	6.1	54
Asthma	13.5	9.9	96	10	97
Cancer	5.1	6.1	30	6.1	27
Persons with Disabilities	19.3%	11.8%	90	13.4%	84

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	45	12%	32
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	19%	11%	81	14%	71
Lack of Health Insurance	6%	6%	65	9%	45
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area



EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

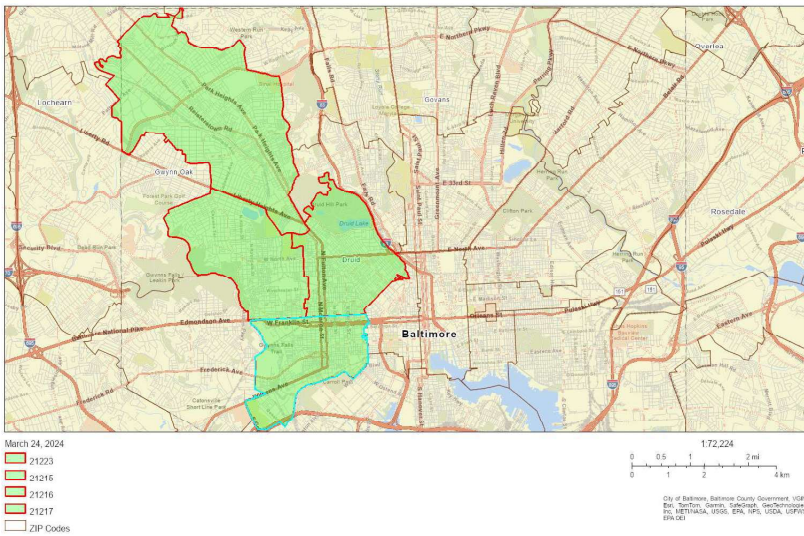
Baltimore, MD

the User Specified Area

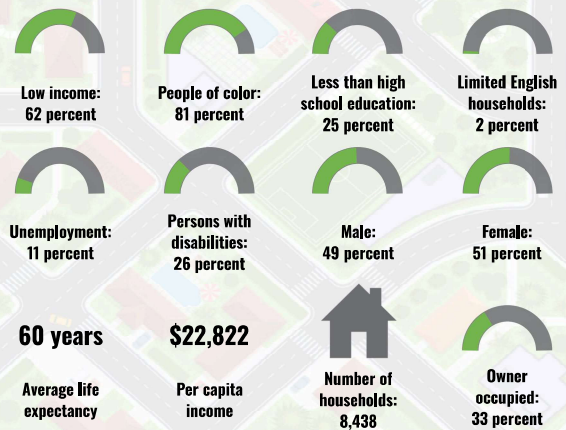
Population: 20,229

Area in square miles: 2.57

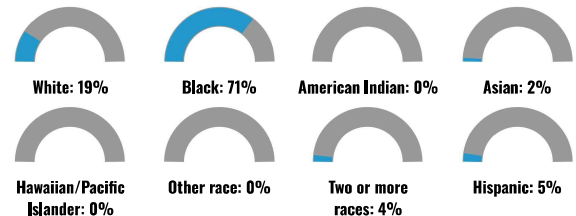
A3 Landscape



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	89%
Spanish	5%
French, Haitian, or Cajun	2%
Other Indo-European	1%
Vietnamese	1%
Other and Unspecified	2%
Total Non-English	11%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

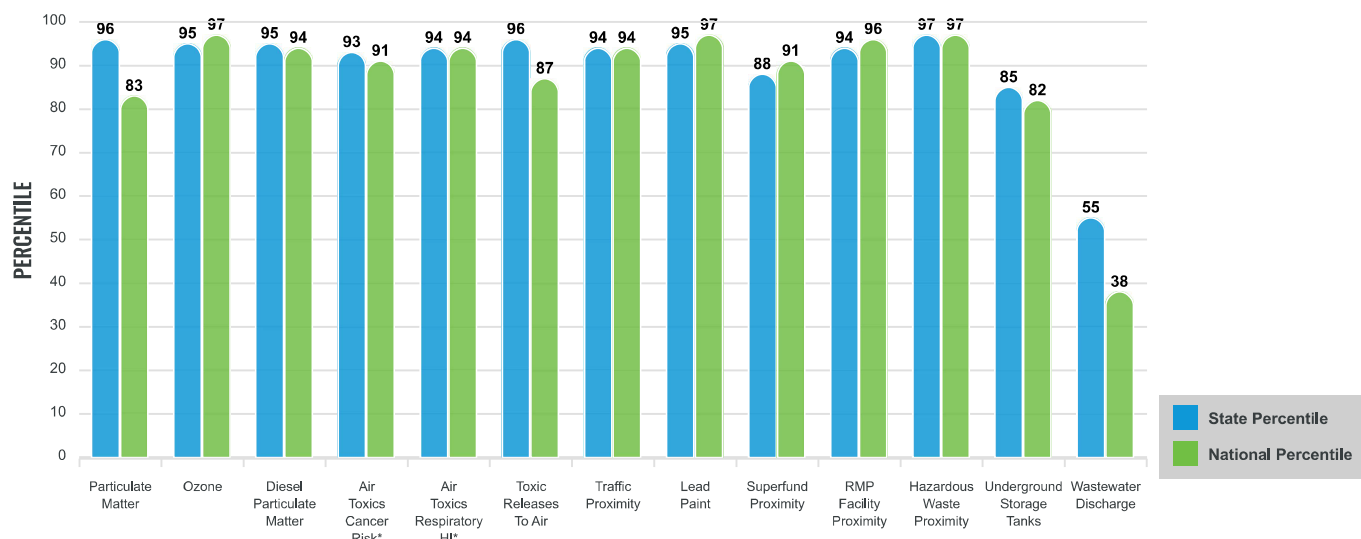
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

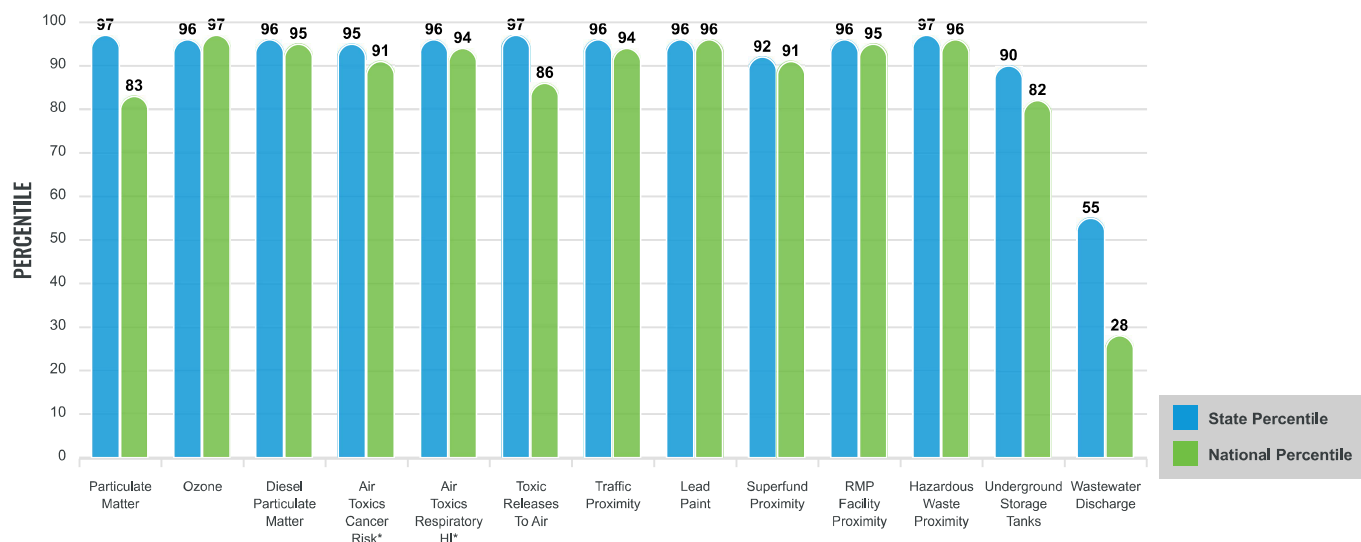
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.22	7.84	96	8.08	50
Ozone (ppb)	70	66	82	61.6	94
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.408	0.288	88	0.261	84
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.4	0.34	50	0.31	70
Toxic Releases to Air	790	430	85	4,600	55
Traffic Proximity (daily traffic count/distance to road)	390	180	86	210	87
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.11	0.13	63	0.13	70
RMP Facility Proximity (facility count/km distance)	1.2	0.42	87	0.43	91
Hazardous Waste Proximity (facility count/km distance)	9.8	2.1	96	1.9	96
Underground Storage Tanks (count/km ²)	3.6	1.9	81	3.9	71
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00033	1.2	60	22	39
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	93	35%	91
Supplemental Demographic Index	26%	12%	95	14%	90
People of Color	81%	49%	75	39%	84
Low Income	62%	22%	94	31%	89
Unemployment Rate	11%	6%	87	6%	85
Limited English Speaking Households	2%	3%	63	5%	62
Less Than High School Education	25%	10%	92	12%	87
Under Age 5	6%	6%	60	6%	60
Over Age 64	13%	16%	39	17%	37
Low Life Expectancy	25%	19%	90	20%	92

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	25
Air Pollution	
.	110
Brownfields	2
Toxic Release Inventory	3

Other community features within defined area:

Schools	10
Hospitals	2
Places of Worship	46

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	25%	19%	90	20%	92
Heart Disease	7.4	5.3	90	6.1	74
Asthma	14	9.9	96	10	98
Cancer	5	6.1	27	6.1	26
Persons with Disabilities	24.1%	11.8%	96	13.4%	94

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	2%	7%	33	12%	24
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	24%	11%	88	14%	81
Lack of Health Insurance	9%	6%	80	9%	61
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

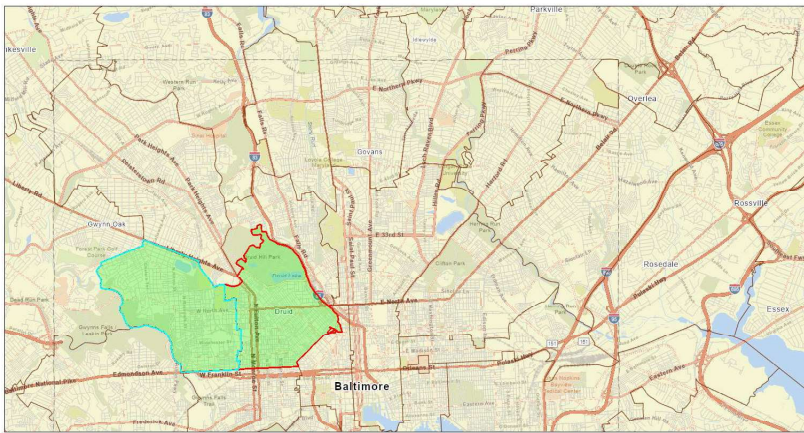
Baltimore, MD

the User Specified Area

Population: 28,096

Area in square miles: 3.29

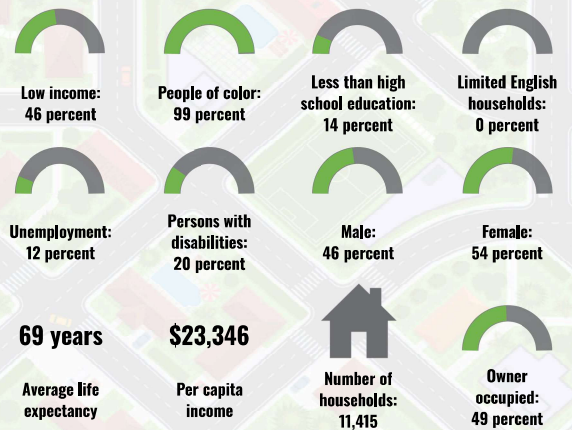
A3 Landscape



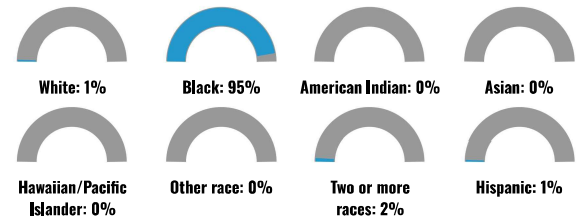
March 24, 2024
21216
21217
ZIP Codes

1:72,224
0 0.5 1 2 4 mi
City of Baltimore, Baltimore County Government, VDOT, Esri, DeLorme, Garmin, Geacore, GeoNames, Mapbox, OpenStreetMap, USGS, EPA, NPS, USGS, USFWS, USFWS

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	1%
French, Haitian, or Cajun	1%
Other and Unspecified	1%
Total Non-English	3%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

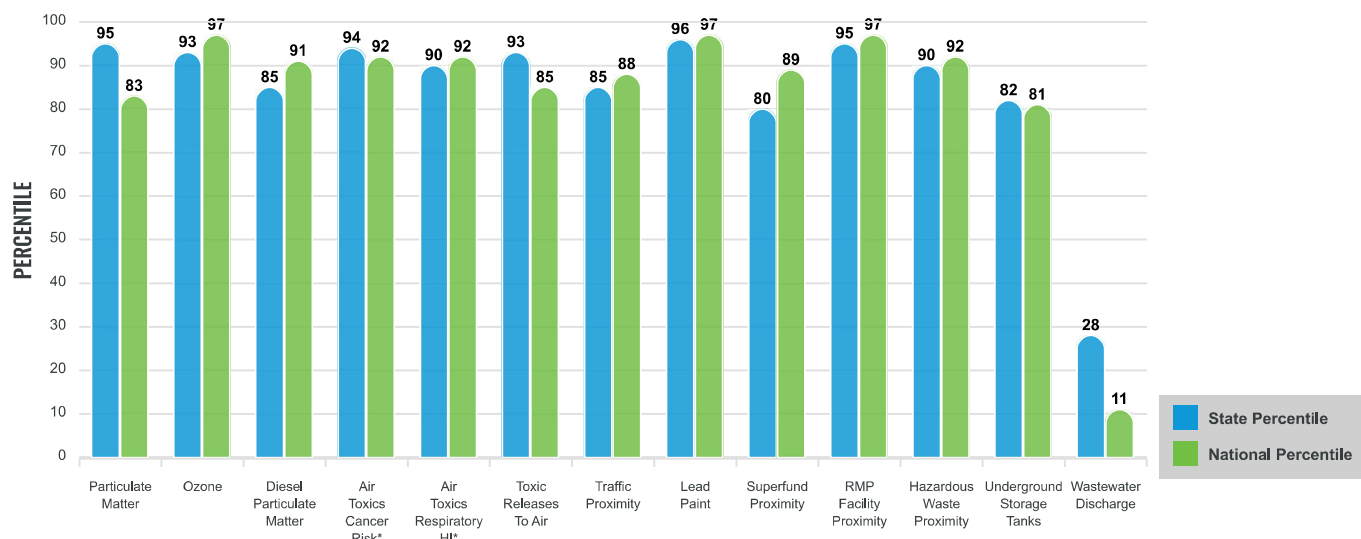
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

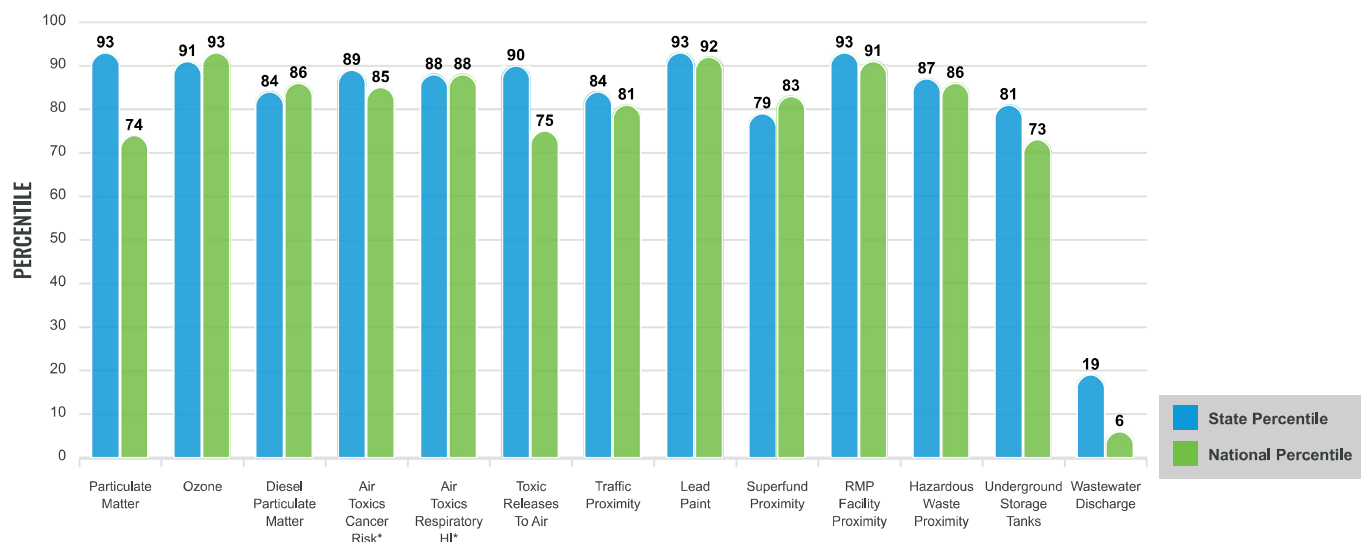
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	90	8.08	49
Ozone (ppb)	69.3	66	74	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.332	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.39	0.34	7	0.31	31
Toxic Releases to Air	600	430	76	4,600	49
Traffic Proximity (daily traffic count/distance to road)	210	180	72	210	76
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.089	0.13	52	0.13	63
RMP Facility Proximity (facility count/km distance)	1.7	0.42	93	0.43	94
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	3	1.9	76	3.9	67
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2E-07	1.2	14	22	3
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	94	35%	91
Supplemental Demographic Index	20%	12%	88	14%	79
People of Color	99%	49%	94	39%	96
Low Income	46%	22%	88	31%	76
Unemployment Rate	12%	6%	89	6%	87
Limited English Speaking Households	0%	3%	0	5%	57
Less Than High School Education	14%	10%	76	12%	69
Under Age 5	6%	6%	62	6%	62
Over Age 64	14%	16%	48	17%	45
Low Life Expectancy	29%	19%	96	20%	98

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	14
Air Pollution	63
Brownfields	0
Toxic Release Inventory	1

Other community features within defined area:

Schools	16
Hospitals	0
Places of Worship	39

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	29%	19%	96	20%	98
Heart Disease	7	5.3	87	6.1	67
Asthma	13.4	9.9	94	10	97
Cancer	5.7	6.1	41	6.1	37
Persons with Disabilities	18.6%	11.8%	88	13.4%	81

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	43%	11%	97	14%	96
Lack of Health Insurance	7%	6%	72	9%	51
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

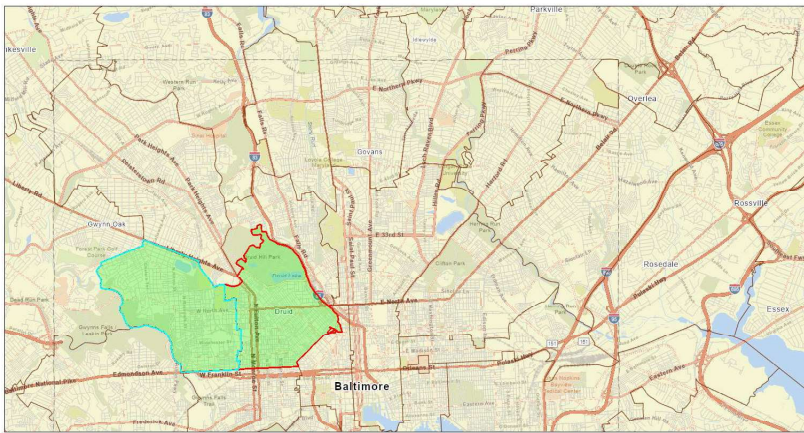
Baltimore, MD

the User Specified Area

Population: 28,096

Area in square miles: 3.29

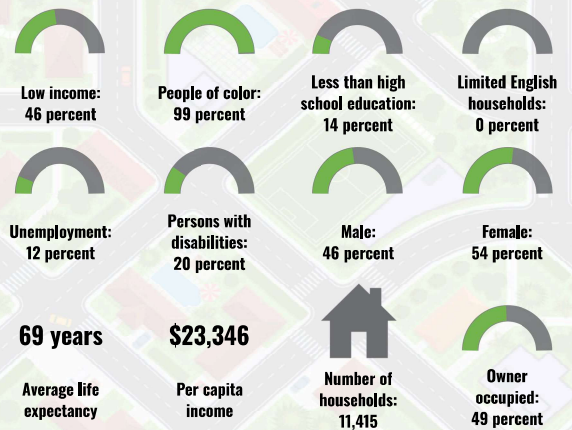
A3 Landscape



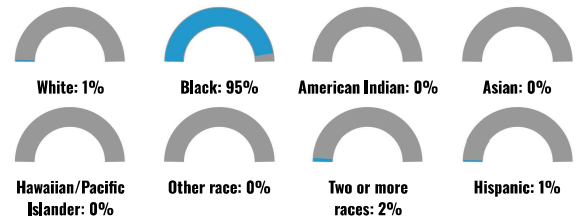
March 24, 2024
21216
21217
ZIP Codes

1:72,224
0 0.5 1 2 4 mi
City of Baltimore, Baltimore County Government, VDOT, Esri, DeLorme, Garmin, Geacore, GeoNames, Mapbox, OpenStreetMap, USGS, EPA, NPS, USGS, USFWS, USFWS

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	1%
French, Haitian, or Cajun	1%
Other and Unspecified	1%
Total Non-English	3%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

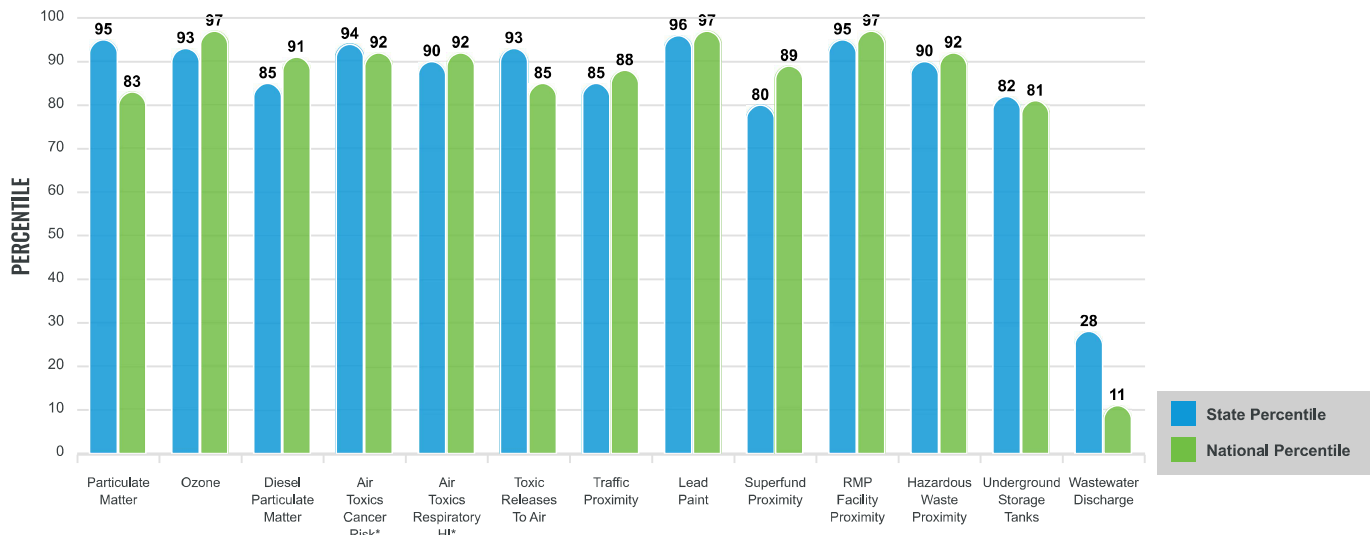
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

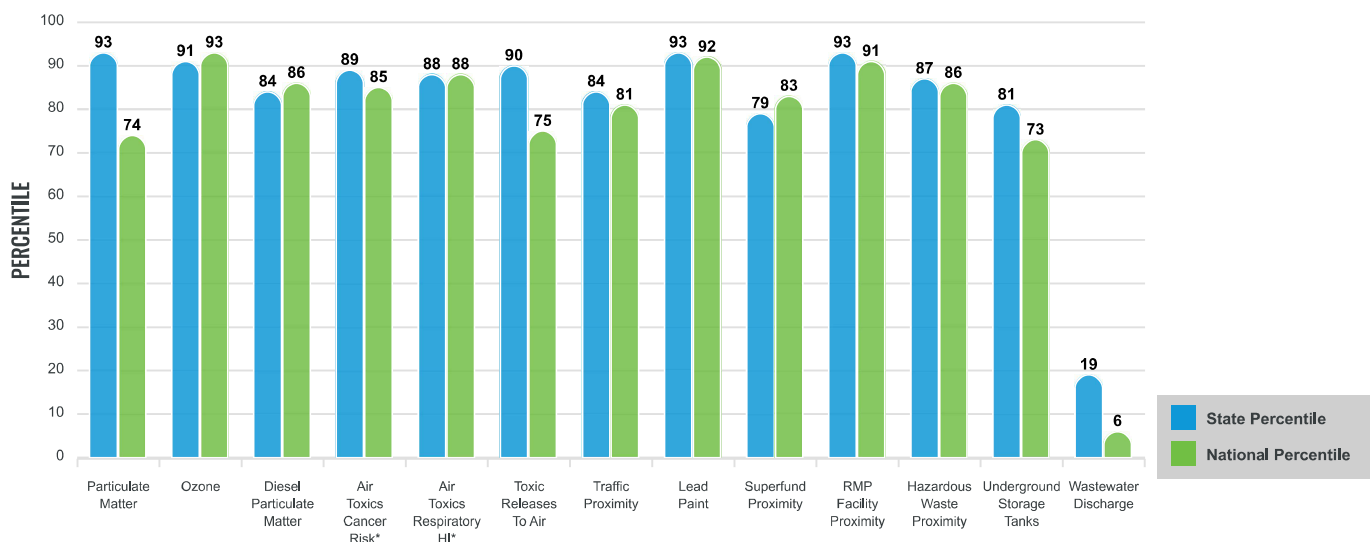
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	8.2	7.84	90	8.08	49
Ozone (ppb)	69.3	66	74	61.6	92
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.332	0.288	61	0.261	74
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	18	25	52
Air Toxics Respiratory HI*	0.39	0.34	7	0.31	31
Toxic Releases to Air	600	430	76	4,600	49
Traffic Proximity (daily traffic count/distance to road)	210	180	72	210	76
Lead Paint (% Pre-1960 Housing)	0.81	0.32	88	0.3	92
Superfund Proximity (site count/km distance)	0.089	0.13	52	0.13	63
RMP Facility Proximity (facility count/km distance)	1.7	0.42	93	0.43	94
Hazardous Waste Proximity (facility count/km distance)	2.9	2.1	74	1.9	80
Underground Storage Tanks (count/km ²)	3	1.9	76	3.9	67
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.2E-07	1.2	14	22	3
SOCIOECONOMIC INDICATORS					
Demographic Index	72%	36%	94	35%	91
Supplemental Demographic Index	20%	12%	88	14%	79
People of Color	99%	49%	94	39%	96
Low Income	46%	22%	88	31%	76
Unemployment Rate	12%	6%	89	6%	87
Limited English Speaking Households	0%	3%	0	5%	57
Less Than High School Education	14%	10%	76	12%	69
Under Age 5	6%	6%	62	6%	62
Over Age 64	14%	16%	48	17%	45
Low Life Expectancy	29%	19%	96	20%	98

*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>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	14
Air Pollution	63
Brownfields	0
Toxic Release Inventory	1

Other community features within defined area:

Schools	16
Hospitals	0
Places of Worship	39

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for the User Specified Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	29%	19%	96	20%	98
Heart Disease	7	5.3	87	6.1	67
Asthma	13.4	9.9	94	10	97
Cancer	5.7	6.1	41	6.1	37
Persons with Disabilities	18.6%	11.8%	88	13.4%	81

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	53	12%	37
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	43%	11%	97	14%	96
Lack of Health Insurance	7%	6%	72	9%	51
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for the User Specified Area