WHERE PEOPLE IN PRISON COME FROM:
The Geography of Mass Incarceration in Maryland
Acknowledgments

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About the organizations

Founded in 1997, the Justice Policy Institute (JPI) is a nonprofit organization developing workable solutions to problems plaguing the juvenile and criminal legal systems. JPI envisions a society with safe, equitable, and healthy communities; just and effective solutions to social problems; and the use of incarceration only as a last resort. For over 20 years, JPI has been engaged in criminal legal reform efforts in Maryland, generating over two dozen publications on Maryland’s correctional challenges.

The non-profit, non-partisan Prison Policy Initiative produces cutting-edge research that exposes the broader harm of mass criminalization and sparks advocacy campaigns that create a more just society. In 2002, the organization launched the national movement against prison gerrymandering when it showed that the way the Census Bureau counts incarcerated people — as residents of a prison cell, instead of at their homes — distorts our democracy and dilutes the voices of people who do not live near prisons. Since then, over a dozen states, including Maryland, have used Prison Policy Initiative’s research to end prison gerrymandering. Roughly half of the country now lives in a place that has formally rejected prison gerrymandering.
THE GEOGRAPHY OF MASS INCARCERATION IN MARYLAND

One of the most important criminal legal system disparities has long been difficult to decipher: Which communities throughout the state do incarcerated people come from? Anyone who lives in or works within heavily policed and incarcerated communities intuitively knows that certain neighborhoods disproportionately experience incarceration. But data have rarely been available to quantify how many people from each community are imprisoned with any real precision.¹

But now, thanks to a redistricting reform [link to sidebar at end re: legislation] that ensures incarcerated people are counted correctly in the legislative districts they come from, we can understand the geography of incarceration in Maryland with up-to-date data. Maryland is one of over a dozen states that have ended prison gerrymandering, and now count incarcerated people where they legally reside — at their home address — rather than in remote prison cells for redistricting purposes. This type of reform, as we often discuss, is crucial for ending the siphoning of political power from disproportionately Black and Latino communities to pad out the mostly rural, predominantly white regions where prisons are located. And when reforms like Maryland’s are implemented, they bring along a convenient side effect: In order to correctly represent each community’s population counts, states must collect detailed state-wide data on where imprisoned people call home, which is otherwise impossible to access.

¹ Criminal justice data is often poorly tracked, meaning researchers must cobble together information from different sources. But by using complete data from state redistricting committees, this report (and the series of state reports it belongs to) are uniquely comprehensive and up-to-date. This series of reports, which are each published by Prison Policy Initiative in cooperation with various state partners, includes two previous reports: Maryland (published in 2015, in collaboration with the Justice Policy Institute) and New York (published in 2020, in collaboration with VOCAL-NY). While the reports in this series are the first to use redistricting data to provide detailed, local-level data on where incarcerated people come from statewide, other organizations have previously published reports that focused on individual cities or that provided data across fewer types of geographic areas. For example, the Justice Mapping Center had a project that showed residence data for people admitted to or released from state prisons in a given year for almost two dozen states. That project made those states’ annual admission and release data available at the zip code and census tract levels, most recently mapping 2008-2010 data. Separately, it also mapped the residences of people admitted to state prisons from New York City down to the block level using 2009 data. Another resource (particularly helpful for states that are not included in our series of reports) is Vera Institute for Justice’s Incarceration Trends project, which maps prison incarceration rates for 40 states at the county level, based on county of commitment (meaning where individuals were convicted and committed to serve a sentence, not necessarily where they lived).
Using this redistricting data, we found that in Maryland, incarcerated people come from all over the state, but are disproportionately from Baltimore City. Looking at local data, we also find that some areas of the state — like the southern Eastern Shore and Hagerstown — are also disproportionately affected by incarceration. While Maryland incarcerates a smaller share of its residents than all but 13 U.S. states, examining these data by county, city, and even neighborhood reveals surprising and troubling patterns of high incarceration in both specific communities within Baltimore and also the smaller and historically under-resourced Eastern Shore communities.

In addition to helping policy makers and advocates effectively bring reentry and diversion resources to these communities, this data has far-reaching implications. Around the country, high imprisonment rates are correlated with other community problems related to poverty, employment, education, and health. Researchers, scholars, advocates, and politicians can use the data in this report to advocate for bringing more resources to their communities.

9 detailed tables to help you find incarceration data from your community

We created 9 different tables, each breaking down Maryland’s population into different types of communities (such as counties or Census tracts). Each table shows the number of people from each community known to be in the state’s prisons at the time of the 2020 Census.

Statewide, local imprisonment data are available for:
- Counties
- Select cities and towns
- ZIP codes
- Census tracts
- State House of Delegates districts
- State Senate districts
- Congressional districts

In Baltimore, we break down local imprisonment data by:
Baltimore Community statistical areas

In Montgomery County, we break down local imprisonment data by:
County-wide neighborhoods

This unique data source makes it possible to study imprisonment rates directly (rather than relying on prison admission and release data), and at more useful levels of analysis than just the county or zip code. Community advocates and policymakers can use these data to examine how incarceration impacts the communities they serve, as well as advocate for and inform decisions about changes that will best serve the needs of people in these communities.

9% of Maryland residents call Baltimore home, but 40% of Maryland residents in state prison are from the city.
Incarcerated people come from all over Maryland — but disproportionately from some places more than others.

Most broadly, we find that people in Maryland prisons come from every corner of the state. Every single county in the state — and every state legislative district — is missing a portion of its population to incarceration in state prison. The idea that incarceration is a problem uniquely experienced in cities is a myth. While it is true that Baltimore has a disproportionately high incarceration rate, residence data shows it is not alone in this regard. A number of less populous areas, including Wicomico, Dorchester, and Somerset counties on the Eastern Shore, rank in the top fifth of Maryland counties when it comes to prison incarceration rates with over 570 people in state prison for every 100,000 county residents. Compared to the state-wide incarceration rate of 193 people for every 100,000 residents, these three Eastern Shore counties are losing relatively large portions of their populations to state prisons.

While incarceration affects every part of the state, it tends to be concentrated in a relatively small number of geographic areas. For example, while 9% of Maryland residents call Baltimore home, 40% of Maryland residents in state prison are from the city. By contrast, the most populous county in the state — Montgomery County — is home to 17% of Maryland residents, but only 4% of the state prison hails from this county.

Even within communities, the data show dramatic and troubling differences in incarceration rates between neighborhoods. Over one third of people in state prison from Baltimore City hail from just ten of the city’s 55 neighborhoods. The neighborhood of Midtown had an incarceration rate of 262 people in state prison per 100,000 neighborhood residents, while Southwest Baltimore had an incarceration rate eight times higher at 2,223 people in state prison per 100,000 residents.

2 This area of the Eastern Shore is primarily rural and agricultural. According to Census 2020 data, there is a significant population of Black residents in these counties, and there is also likely to be a significant population of seasonal workers. For example, Somerset County’s population is 39% Black, while only 30% of Maryland’s statewide population is Black.

3 As explained in the methodology, this report’s incarceration rate is based on the number of people in state prison who were reallocated to individual communities as part of the state’s law ending prison gerrymandering. This number is necessary for making apples-to-apples comparisons of incarceration between specific communities and the state as a whole. For the purposes of comparing incarceration in Maryland with that of other states, other more common metrics would be more useful. For these other uses, we would recommend using other numbers for the statewide incarceration rate, likely either the 258 per 100,000 published by the Bureau of Justice Statistics in Prisoners in 2020 for the number of people in state prison per 100,000 residents, or our more holistic number of 531 per 100,000 residents used in States of Incarceration: The Global Context 2021 that includes people in state prisons, federal prisons, local jails, youth confinement, and all other forms of incarceration.

4 For the purposes of this analysis of city-wide trends by neighborhood, we used Community Statistical Areas (CSAs), described in footnote 2, to approximate neighborhoods. The CSAs solve a difficult problem for people who study communities: neighborhoods are fluid, and statistical data is often collected in ways that are incompatible with shifting or ill-defined boundaries. For example, the City of Baltimore has over 270 neighborhoods, but the boundaries of those neighborhoods do not necessarily match the Census Bureau’s community boundaries and have a wide range of populations, making it hard to accurately analyze and compare these geographies. For these reasons, throughout this report, we are using the 55 Baltimore Community Statistical Areas to approximate neighborhoods.
While all communities are missing some of their members to imprisonment, in places where large numbers of adults — parents, workers, voters — are locked up, incarceration has a broader community impact. The large number of adults drained from a relatively small number of geographical areas seriously impacts the health and stability of the families and communities left behind.

**What are the differences between high- and low-incarceration communities?**

We already know that communities with high incarceration rates simultaneously tend to face other negative outcomes. In our analysis of the previous decade’s data on where incarcerated people in Maryland are from, we found that Baltimore communities with high rates of incarceration were more likely to have high unemployment rates, long average commute times, low household income, a high percentage of residents with less than a high school diploma or GED, decreased life expectancy, high rates of vacant or abandoned properties, and higher rates of children with elevated blood-lead levels, compared to neighborhoods less impacted by incarceration.

JPI plans to produce a report in late 2022 that will present a deeper dive on these and other social indicators using Maryland data. National research has revealed similar correlations in communities around the country:

- **Life expectancy:** A 2021 analysis of New York State census tracts found that tracts with the highest incarceration rates had an average life expectancy more than two years shorter than tracts with the lowest incarceration rates, even when controlling for other population differences. And a 2019 analysis of counties across the country revealed that higher levels of incarceration are associated with both higher morbidity (poor or fair health) and mortality (shortened life expectancy).

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5 These impacts of incarceration on families and communities include higher rates of disease and infant mortality, housing instability, and financial burdens related to having an incarcerated loved one. For more detailed information on how incarceration impacts families and communities, see *On life support: Public health in the age of mass incarceration* from the Vera Institute of Justice.

6 These various correlative findings are once again in line with previous research on health disparities across communities, which have been linked to neighborhood factors such as income inequality, exposure to violence, and environmental hazards that disproportionately affect communities of color. Public health experts consider community-level factors such as these — including incarceration — “social determinants of health.” To counteract these problems, they suggest taking a broad approach, addressing the “upstream” economic and social disparities through policy reforms, as well as by increasing access to services and supports, such as improving access to clinical health care.

7 We also know that people who have been incarcerated have a shorter life expectancy than people who have not.
Community health: A nationwide study, published in 2019, found that rates of incarceration were associated with a more than 50% increase in drug-related deaths from county to county. And, a 2018 study found that Black people living in Atlanta neighborhoods with high incarceration rates are more likely to have poor cardiometabolic health profiles.

An analysis of North Carolina data from 1995 to 2002 revealed that counties with increased incarceration rates had higher rates of both teenage pregnancy and sexually transmitted infections (STIs). A 2015 study of Atlanta also found that census tracts with higher rates of incarceration had higher rates of newly diagnosed STIs.8

Mental health: A 2015 study found that people living in Detroit neighborhoods with high prison admission rates were more likely to be screened as having a current or lifetime major depressive disorder and generalized anxiety disorder.

Exposure to environmental dangers: A 2021 study found that people who grew up in U.S. census tracts with higher levels of traffic-related air pollution and housing-derived lead risk were more likely to be incarcerated as adults, even when controlling for other factors.

In New York City, neighborhood incarceration rate is associated with asthma prevalence among adults. Similarly, our 2020 analysis of New York City neighborhoods found higher rates of asthma among children in communities with high incarceration rates.9

Education: In our 2020 analysis of incarcerated New Yorkers’ neighborhoods of origin, we found a strong correlation between neighborhood imprisonment rates and standardized test scores.10 And a 2017 report on incarceration in Worcester, Mass., found that schools in the city’s high-incarceration neighborhoods tended to be lower-performing. What’s more, students in those neighborhoods faced more disciplinary infractions.

Community Resources and Engagement: A 2018 study found that, throughout the country, people who are formerly incarcerated (as well as people who have been arrested or convicted of a crime) are more likely than their non-justice-involved counterparts to live in a census tract with low access to healthy food retailers. And the 2017 report on Worcester,

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8 There are many additional studies linking incarceration rates and high community rates of STIs, including gonorrhea and chlamydia in North Carolina.

9 Asthma prevalence has been used as a tool to measure population health in both sociological and public health research because it is easily correlated with environmental factors like air quality and triggers (i.e. second hand smoke, mold, dust, cockroaches, dust mites), as well as access to appropriate healthcare and healthcare literacy. See the American Lung Association’s Public Policy Position for a literature review of the relevant public health research.

10 Again, this finding is consistent with previous research on the relationship between education and imprisonment rates. We previously reported that the high school educations of over half of all formerly incarcerated people were cut short. This is in line with earlier studies showing that people in prison have markedly lower educational attainment, literacy, and numeracy than the general public, and are more likely to have learning disabilities. We also know there are relationships between parental incarceration and educational performance.
Mass., revealed that high-incarceration neighborhoods had lower voter turnout in municipal elections.

Maryland residents can use the data in this report to examine granular local-level and state-wide correlations and choose to allocate needed resources to places hardest hit by incarceration.

**Implications & uses of these data**

The 9 data tables provided here have great potential for community advocacy and future research.

First and most obviously, these data can be used to determine the best locations for community-based diversion programs that help prevent involvement with the criminal legal system, such as offices of neighborhood safety and mental health response teams located outside of police departments. The data can also help guide reentry services (which are typically provided by nonprofit community organizations) to areas of Maryland that need them most.

But even beyond the obvious need for diversion and reentry services, our findings also point to geographic areas that deserve greater investment in programs and services that indirectly prevent criminal legal involvement or mitigate the harm of incarceration. After all, decades of research show that imprisonment leads to cascading collateral consequences, both for individuals and their loved ones. When large numbers of people disappear from a community, their absences are felt in countless ways. They leave behind loved ones, including children, who experience trauma, emotional distress, and financial strain. Simultaneously, the large numbers of people returning to these communities (since the vast majority of incarcerated people who are incarcerated do return home) face a host of reentry challenges and collateral consequences resulting from their incarceration, including difficulty finding employment and a lack of housing. People impacted by the justice system tend to have extremely diminished wealth accumulation. And those returning from prison and jail may carry back to their communities PTSD and other mental health issues from the trauma they’ve experienced and witnessed behind bars.

And since we know place of origin correlates with so many other metrics of wellbeing, we can and should target these communities for support and resources beyond what we typically think of as interventions to prevent criminal legal system contact. In communities where the state or city has heavily invested in policing and incarceration (i.e. the high-incarceration neighborhoods we find in our analysis), our findings suggest that those resources would be better put toward reducing poverty and improving local health, education, and employment opportunities.

For example, we know that large numbers of children in high incarceration areas may be growing up with the trauma and lost resources that come along with having an incarcerated parent, and that these children are also more likely to experience incarceration. The information in this report can help with planning and targeting supports, resources, and programming designed to not only respond to the harms caused by incarceration, but disrupt the cycle of familial incarceration.
This report uses the redistricting data produced by Maryland’s historic 2010 law ending prison gerrymandering. “Prison gerrymandering” is the practice of drawing representative districts that count people in prison as legal residents of the prison, thereby inflating the political clout of people in districts with prisons, and diluting the influence of residents in all other districts. It is the result of a longstanding flaw in the U.S. Census, which counts incarcerated people as residents of their prison or jail cells on Census Day.

Ideally, the Census Bureau would update its methodology for this era of mass incarceration by counting imprisoned people at home. When the Bureau rejected calls to fix the problem for the 2010 Census, Maryland became the first state to develop and enact creative state-level legislative solutions to correct this flaw in the Census Bureau's data thus ending prison gerrymandering in Maryland.

This problem of “prison gerrymandering” was particularly stark in Maryland. At the time of the 2000 Census, an analysis the Prison Policy Initiative completed of Maryland’s 2001 districts found that 18% of House of Delegates District 2B (near Hagerstown, where several large prisons are located) were incarcerated people. This meant every four residents of District 2B had almost as much influence as five residents of any other district in the state. In this way, before the law change, legislative districts with prisons had a disproportionate impact in state politics. But if prison gerrymandering seemed harmful to democracy in the state legislature, the problem was even larger for some of the Eastern Shore communities that hosted prisons. For example, over half the population of one County Commission District in Somerset County was incarcerated in 2000, giving each resident in that district 2.7 times as much influence as residents in other districts. Even more troubling is that by including the prison population as “residents” in county districts, the county has been unable to draw an effective majority-African American district and has had no African-American elected to county government, despite settlement of a vote dilution lawsuit in the 1980s.

Maryland’s law to end prison gerrymandering ultimately passed with bipartisan support, including support from senators in both parties with prisons located in their districts. The law was affirmed by the U.S. Supreme Court, upholding a lower court’s analysis that “the State’s adjusted data will likewise be more accurate than the information contained in the initial census reports, which does not take prisoners’ community ties into account at all.”

1 People in prison remain residents of their home districts, but at redistricting time, they are assigned to the district where they are incarcerated. This skewed population assignment means that the more people in prison that are counted in a district, the fewer actual constituents the prison district legislator has, but is still allowed a full vote in the General Assembly. Therefore, people who live near prisons each get a stronger say in state government than people who live in a district without any of these “phantom constituents.”

We invite community organizers, service providers, policymakers, and researchers to use the data tables made available in this report to make further connections between mass incarceration and various outcomes, to better understand the impact of incarceration on their communities.

Methodology & Data

This report capitalizes on the unique opportunity presented by Maryland’s ending of prison gerrymandering, which allows us to determine accurately where people incarcerated in state prisons come from. In this report’s linked datasets, we aggregate this data by a number of useful state-wide geographies such as counties, legislative districts, and cities, and for some areas such as Baltimore neighborhoods and Montgomery County neighborhoods.

This section of the report discusses how we processed the data, some important context and limitations on that data, and some additional context about the geographies we have chosen to include in this report and appendices. The goal of this report is not to have the final word on the geographic concentration of incarceration, but to empower researchers and advocates — both inside and outside of the field of criminal justice research — to use our dataset for their own purposes. For example, if you are an expert on a particular kind of social disadvantage and have some data organized by county, zip code, legislative district, or other breakdown and want to add imprisonment data to your dataset, we probably have exactly what you need in a prepared appendix described below.

This report and its data are one in a series of similar reports we are releasing in the spring and summer of 2022, focusing on 13 states — California, Colorado, Connecticut, Delaware, Maryland, Montana, Nevada, New Jersey, New York, Pennsylvania, Rhode Island, Virginia, and Washington — which counted incarcerated people at home for redistricting purposes, and therefore also made this analysis possible. This report can also be seen as a template for other states because while not all states have ended prison gerrymandering, most state departments of corrections already have near-complete home residence records in an electronic format. States that have not yet ended prison gerrymandering should be encouraged to continue improving their data collection, and to share the data (under appropriate privacy protections) so that similar analyses could be performed.

How we processed the data

Maryland’s law ending prison gerrymandering required the Maryland Department of Public Safety and Correctional Services to share the home addresses of people in state prisons on Census Day 2020 with redistricting officials, so that these officials could remove imprisoned people from the redistricting populations reported by the Census for the facilities’ locations and properly credit people to their home communities. The adjusted data was then made available for state and local officials to use to draw new legislative boundaries. As a side effect, this groundbreaking dataset allows researchers to talk in detail for the first time about where incarcerated people came from. Creating the tables in this report required several steps which were expertly performed by Peter Horton at Redistricting Data Hub:
1. Downloading Maryland’s adjusted redistricting data, which contains the state’s entire population, with the people incarcerated in state prisons reallocated to their home addresses.

2. Subtracting the state’s redistricting data from the original Census Bureau P.L. 94-171 redistricting data, to produce a file that represented the number of incarcerated people the state determined were from each census block state-wide. (Census blocks that showed a net gain of population following the reallocation were the Census blocks that incarcerated people were reallocated to, and the amount of that change was the number of people from that block who were incarcerated in a state prison on Census day.) For a different analysis that focused on both the net gains and net decreases in individual census blocks and then aggregated to counties and the final redistricting plans, see Peter Horton’s report for Redistricting Data Hub on Maryland.

3. Aggregating these block-level counts of incarcerated people to each of the geography types available in the report. In cases where a census block containing an incarcerated person’s home address straddles the boundary between two geographies, the incarcerated population was applied to the geography that contained the largest portion of the census block’s area.

4. Calculating imprisonment rates for each geography, by first calculating a corrected population that shows the Census 2020 population plus the number of incarcerated people from that geography; and then dividing the number of incarcerated people by the corrected total population, and then multiplied it by 100,000 to get an imprisonment rate per 100,000.

Important context and limitations on this data

Our analysis in this report documents the home addresses of 15,242 people in Maryland state prisons, which is somewhat less than the state’s total prison population of 19,802 on Census day. These numbers are different for a variety of reasons, including policy choices made when the legislation ending prison gerrymandering was created and others are just the practical outcome of valiant state efforts to improve federal census data, or the process of repurposing that dataset for this entirely different project.

From the perspective of improving democracy in Maryland, the state’s reallocation efforts were a success, reducing both the unearned enhancement of political representation in prison-hosting areas and reducing the dilution of representation in the highest-incarceration districts. From the perspective of using that data to discuss the concentration of incarceration, some readers may want to be aware of some the reasons why our report discusses the home addresses of 15,242 people when they may be aware that the state prison system had 19,802 people on Census day:

- Some people in Maryland state prisons are from other states and therefore were not reallocated to homes in Maryland.
- Some addresses were unknown or could not be located for the reallocation. For example, an address on file may be incomplete or may contain only the notation “homeless” which of course cannot be applied to a specific home census block.
- Anyone whose home address by coincidence happens to be in a census block that contains a correctional facility would have been properly reallocated for purposes of ending prison gerrymandering, but their presence at that location would not, because of how we created our dataset, be apparent in this report.
Similarly, this report doesn’t reflect the other groups of people incarcerated from particular communities who are not reflected in these data, because they were:

- Incarcerated in a federal prison, because states do not have the power to require home address data from federal agencies. The Maryland legislation requires the state to request this data from the federal Bureau of Prisons, but that federal agency refused to share it.
- Incarcerated in another state’s prison system. States cannot require other states to share this information, and the fact that so many states are ending prison gerrymandering is too new of a phenomenon for them to have had the chance to enter into inter-state data sharing agreements.
- Incarcerated in a local jail, in this state or elsewhere; because the state’s effort to remedy prison gerrymandering was focused on state prisons.

### About the geographies

We’ve organize the data in this report around several popular geographies, as defined by the federal government, by the state, or by individual cities, with the idea that the reader can link our data to the wealth of existing social indicator data already available from other sources.

Unfortunately, the reader may desire data for a specific geography that we have not made available — for example, their own neighborhood, as they conceive of its boundaries. Often, there was not a readily accessible and official map that we could use that defined that boundary; so where the reader has this need, we urge the reader to look for other geographies in our datasets that can be easily adapted to their needs, either one that is similar enough to their preferred geography or by aggregating several smaller geographies together to match your preferred geography.

We also want to caution subsequent users of this data that some geographies change frequently and others change rarely, so they should note the vintage of the maps we used to produce each table. For example, county boundaries change very rarely, and when they do, it is often in extremely small ways. On the other hand, legislative districts may change frequently and significantly, so depending on your goals some specific tables may be more or less applicable for your future use.

Finally, readers should note that occasionally the incarcerated numbers in our tables for some geographies will not sum precisely to the total 15,242 home addresses used in this report. That discrepancy arises because of how census blocks – the basic building block of legislative districts – nest or fail to nest within geographies drawn by agencies other than the Census Bureau.

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11 This list of groups of people who could not be counted at home is yet another set of reasons why the U.S. Census Bureau is the ideal agency to end prison gerrymandering: they are the only party with the ability to provide a complete solution and they can do this work far more efficiently than the states can.
The Justice Policy Institute is dedicated to reducing the use of incarceration and the justice system by promoting fair and effective policies.