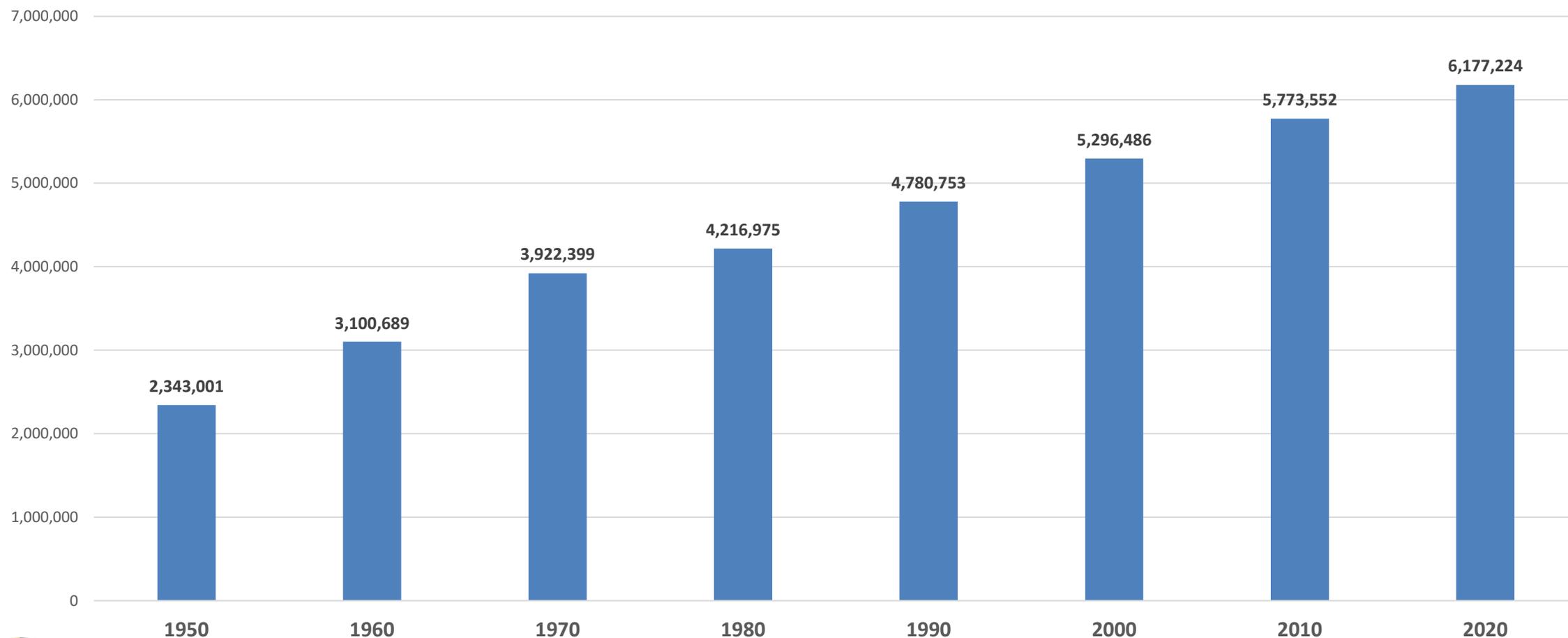


UPCOMING WORKSHOPS AND ANALYSES

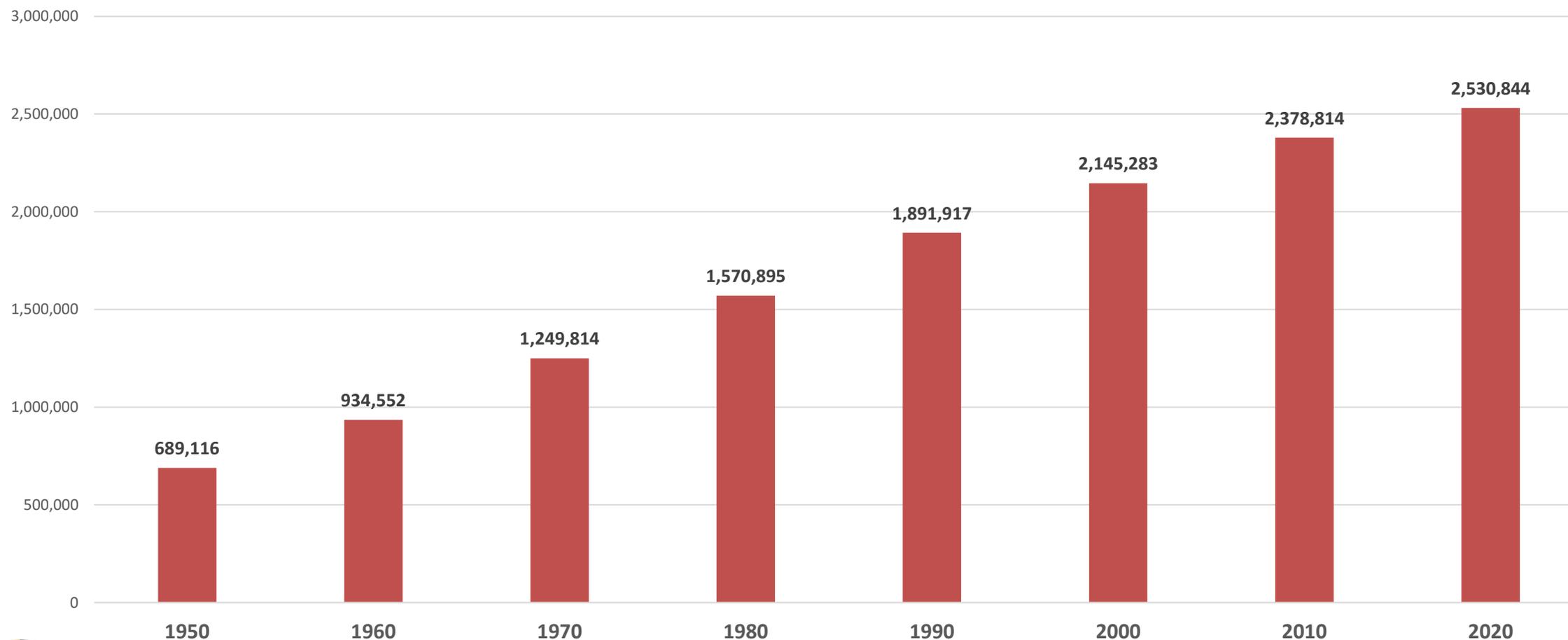
Presentation for
Maryland State Data Center
Annual Meeting and Workshop
October 19, 2021

Alfred Sundara, AICP
Manager, Projections and State Data Center
Maryland Department of Planning

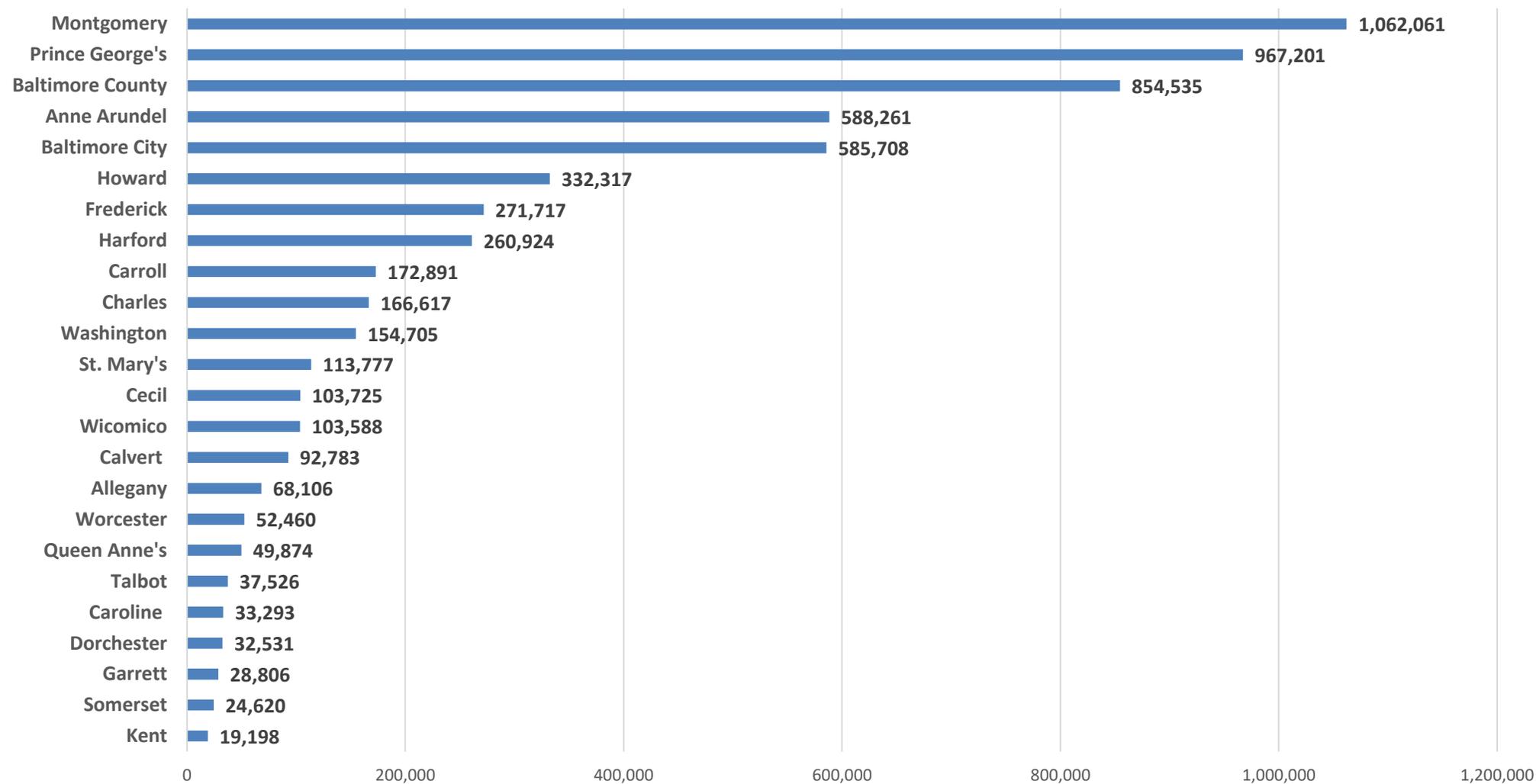
MARYLAND POPULATION, 1950-2020



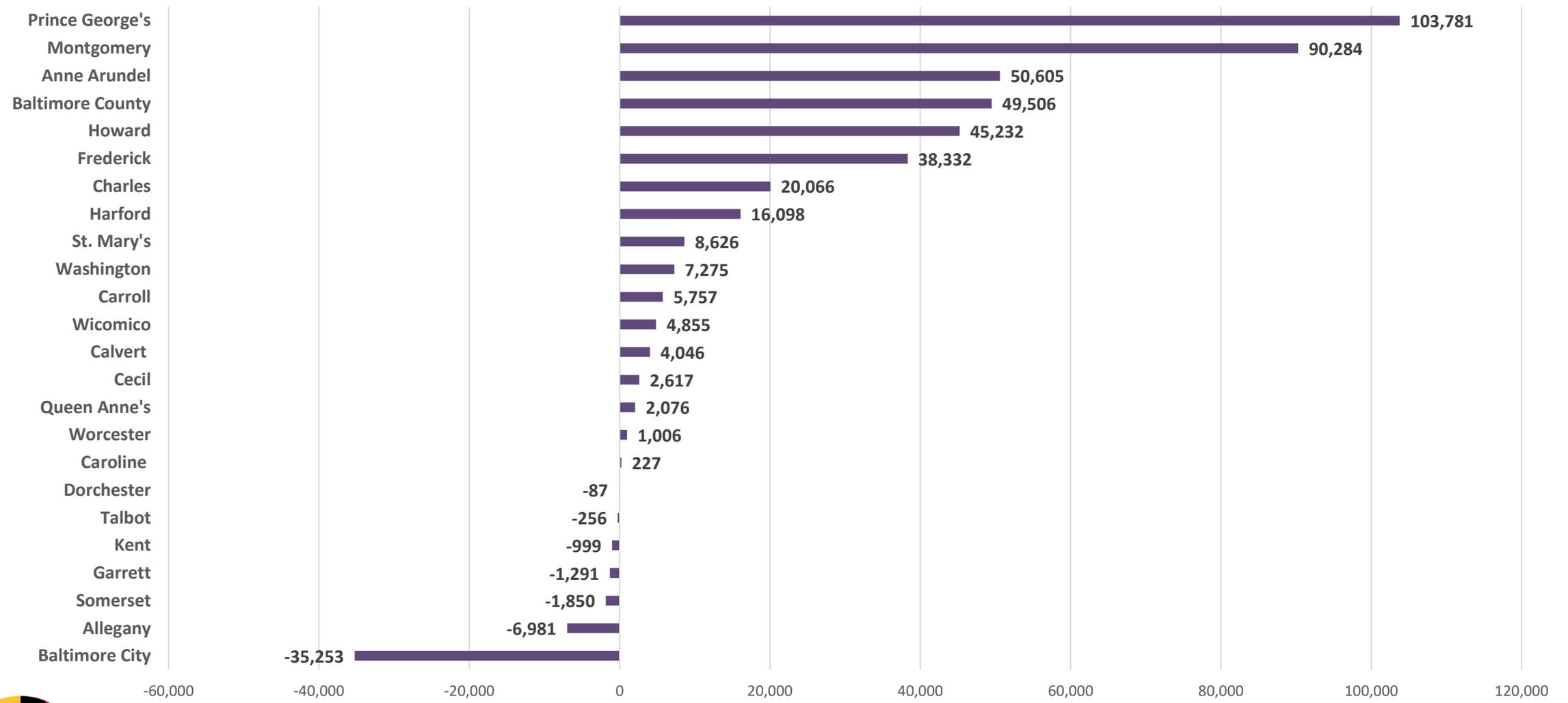
MARYLAND HOUSING UNITS, 1950-2020



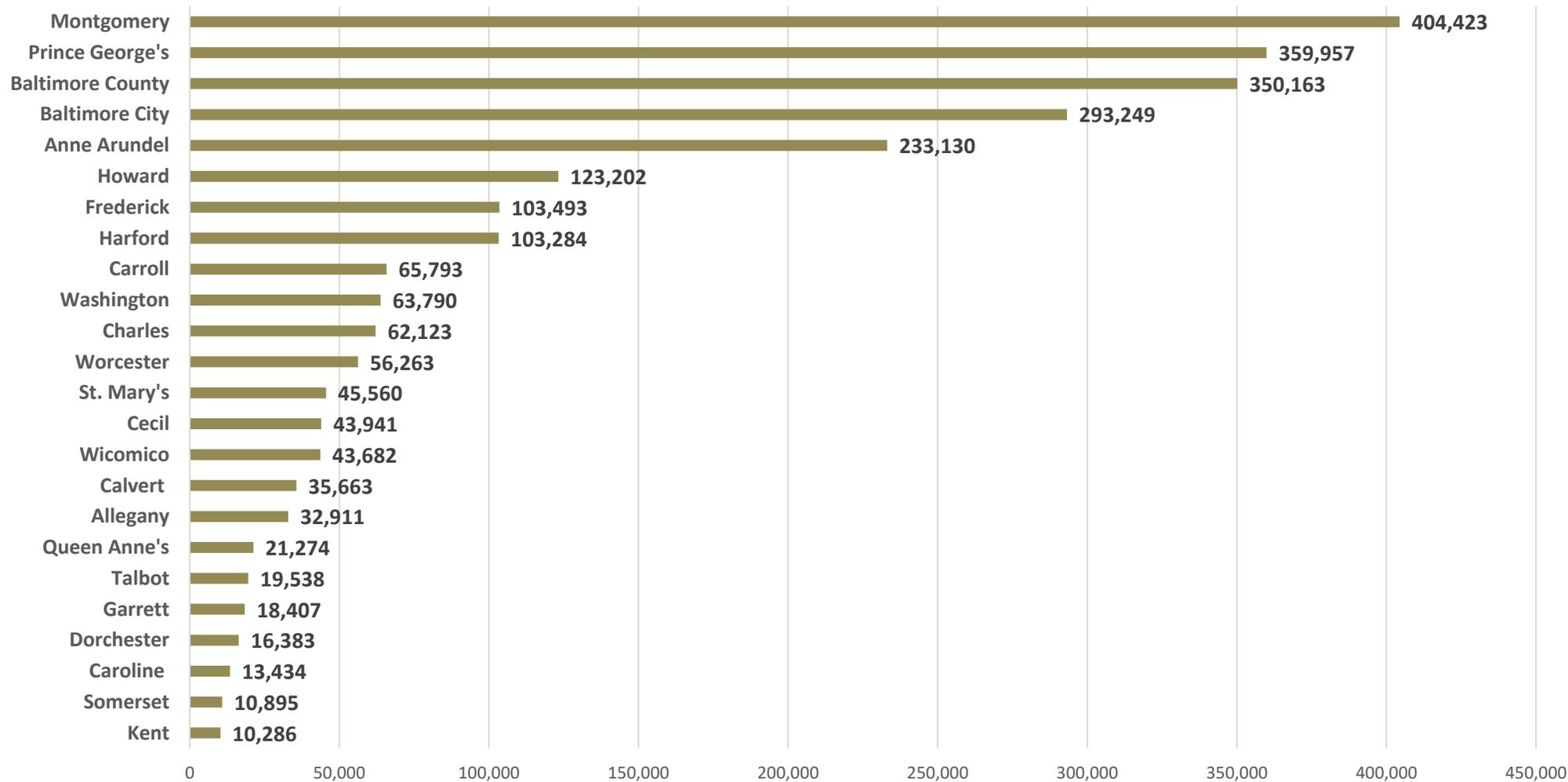
2020 CENSUS POPULATION FOR MARYLAND JURISDICTIONS



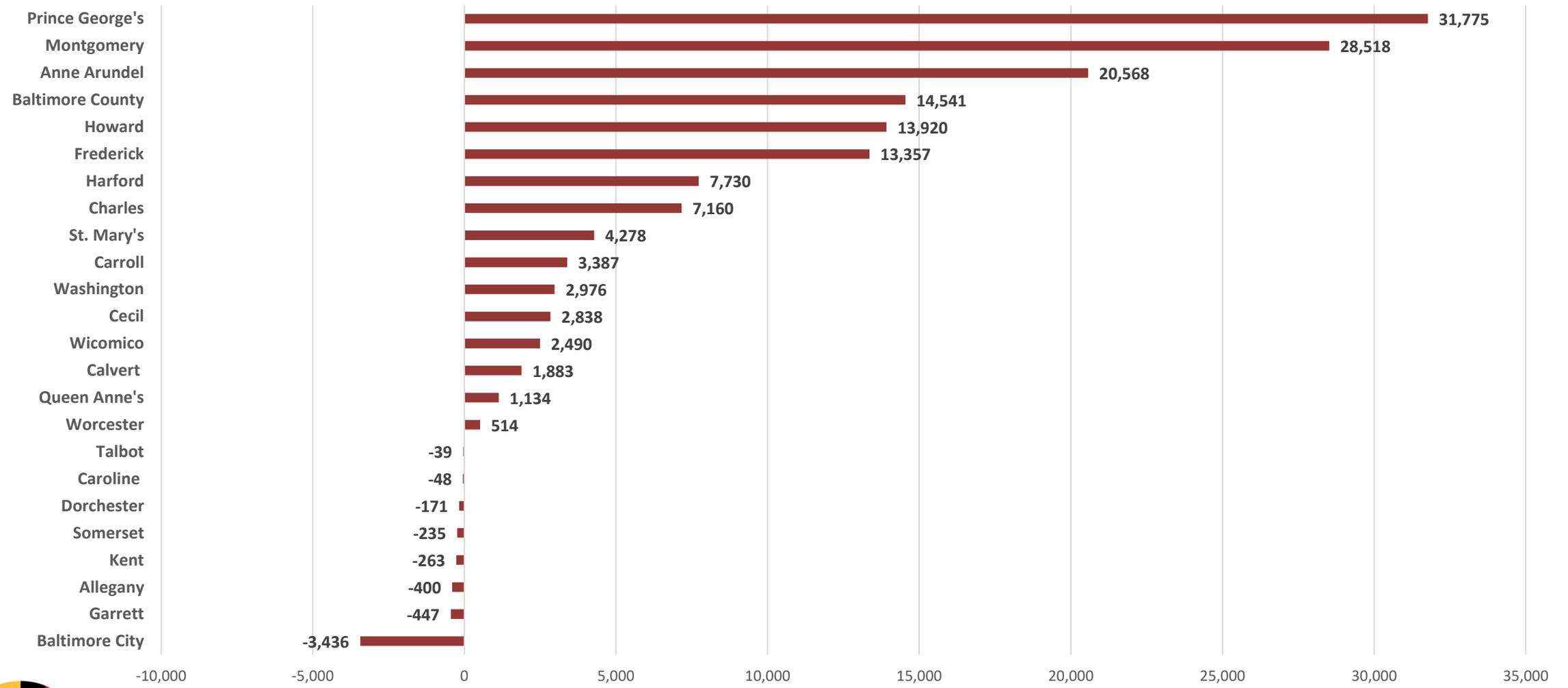
POPULATION CHANGE FOR MARYLAND JURISDICTIONS, 2010-2020



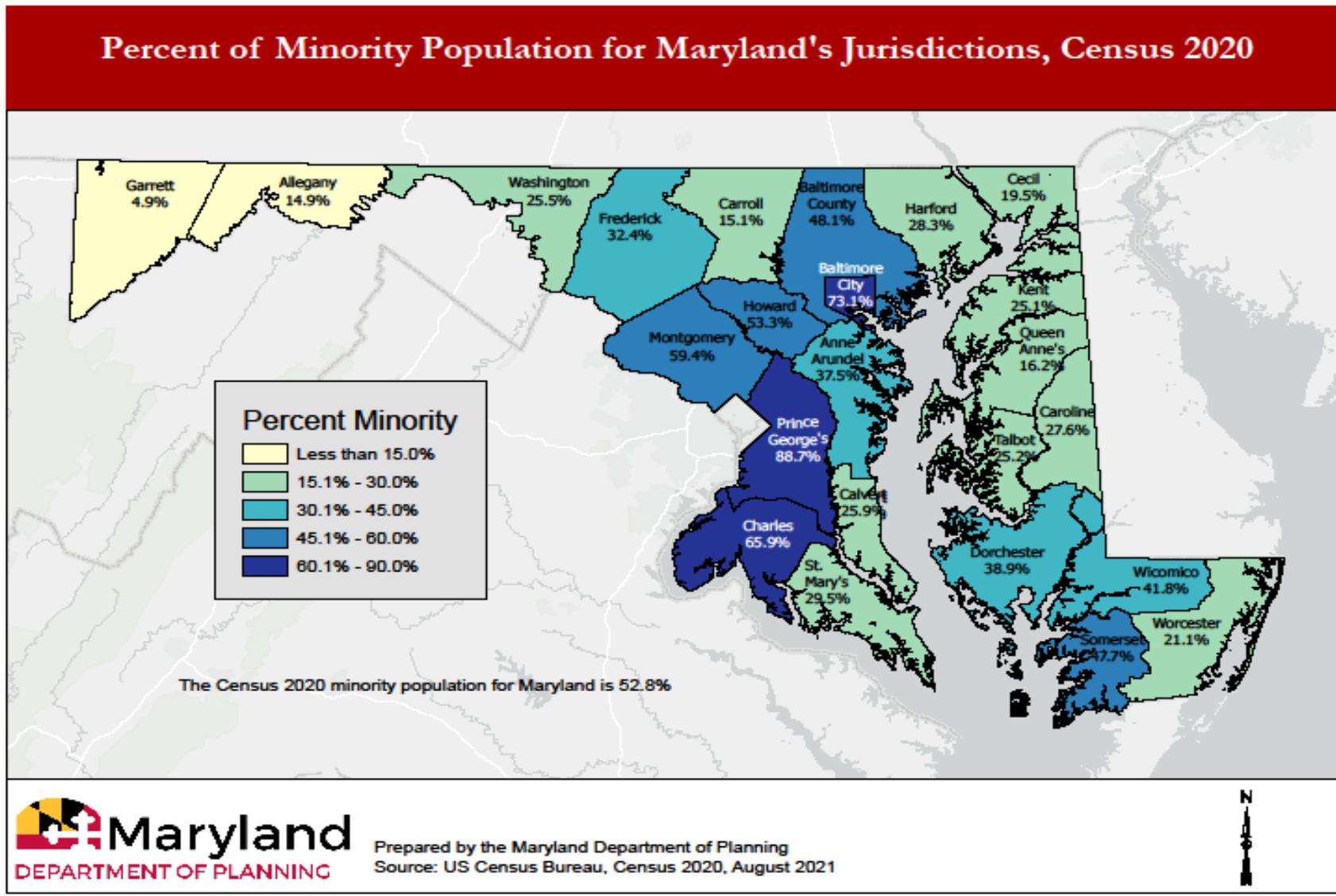
2020 CENSUS HOUSING UNITS FOR MARYLAND JURISDICTIONS



HOUSING UNIT CHANGE FOR MARYLAND JURISDICTIONS, 2010-2020



RACIAL COMPOSITION



CENSUS COUNT QUESTION RESOLUTION

DECENNIAL CENSUS DATA IS NOT PERFECT

The leading causes of inaccuracies and errors are:

*Within scope of Count
Question Resolution (CQR)*

- a) Boundary errors: erroneous boundary lines, causing miscalculations of city and municipal totals
- b) Geolocation errors: address points mis-assigned to wrong blocks
- c) Coverage of residential addresses or GQs – if Census missed, then uncounted

DECENNIAL CENSUS DATA IS NOT PERFECT

The leading causes of inaccuracies and errors are:

*Not Within scope of Count
Question Resolution (CQR)*

- a) Census's process of secondary sources, data-mining, or imputation for addresses not participating – this can cause undercounts (or overcounts)
- b) Respondents' errors – this can cause undercounts (or overcounts)
- c) "Disclosure Avoidance System" distortions introduced to the summary tables in order to frustrate the personal identifiability of population characteristics – causes slight inaccuracy

WORKFLOW, PER CENSUS PRELIMINARY GUIDANCE

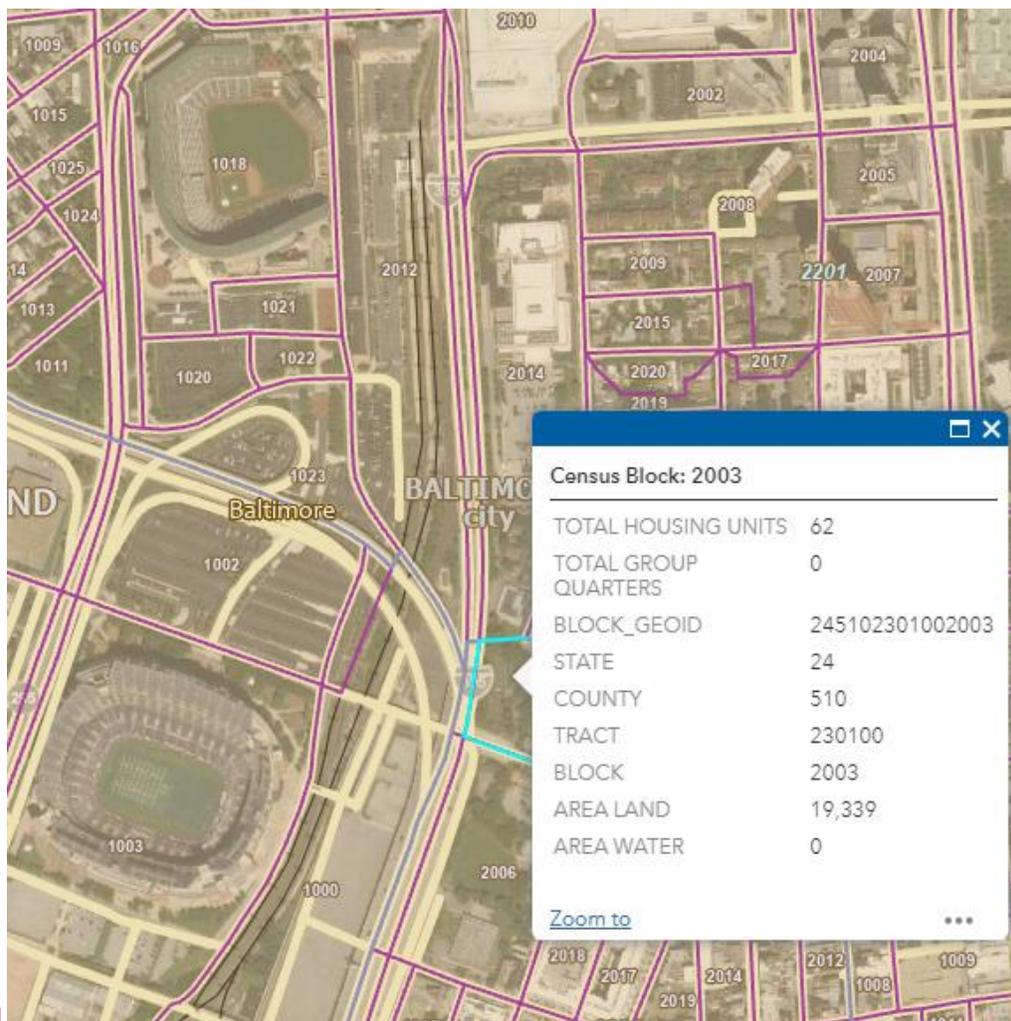
- “Tribal, state, and local governments review published 2020 Census results. If they suspect errors with boundaries or housing counts by block, they may file a CQR case.
- CQR staff receives cases, reviews the case materials for correctness and completeness, and determines whether the case is in scope.
- In-scope cases are sent to Census staff for research and resolution. Census staff will review the 2020 Census enumeration and processing records in conjunction with the evidence supplied with the case.
 - If no processing errors are found, there will be no updates and the case is closed.
 - If processing errors are found, they are addressed within Census Bureau records and systems.
- The Census Bureau provides the disposition for each CQR case to the highest elected official(s) of all impacted government(s) via a determination letter, and posts any revised housing and population counts for each affected census block as errata on the 2020 CQR website”

Source: Matthew Frates, CQR Program, Census Bureau

COUNT QUESTION RESOLUTION

- Census will issue *errata* notices, all corrections, by Sept. 30, 2023
 - The data sets now published on data.census.gov will *still* be in circulation
 - Too late for political redistricting
 - But corrected numbers will be in the “base data” used for annual population estimates - which in turn informs budget and resource allocations, etc.
- All of the above is “preliminary”
 - Preliminary FR Notice was Aug. 4, 2020: [federalregister.gov/d/2020-16962](https://www.federalregister.gov/d/2020-16962)
 - Final guidelines “will be issued in Fall 2021”

GIS DATA ON BLOCK BOUNDARIES



Population by race for blocks, block groups, tracts, municipalities and county geographies:

- https://planning.maryland.gov/MSDC/Page/s/census/Census2020/pL_2020redistricting.aspx
- “True” boundaries maintained by County GIS departments

2020 Census boundaries, any state or county:

- tigerweb.geo.census.gov/tigerweb2020/

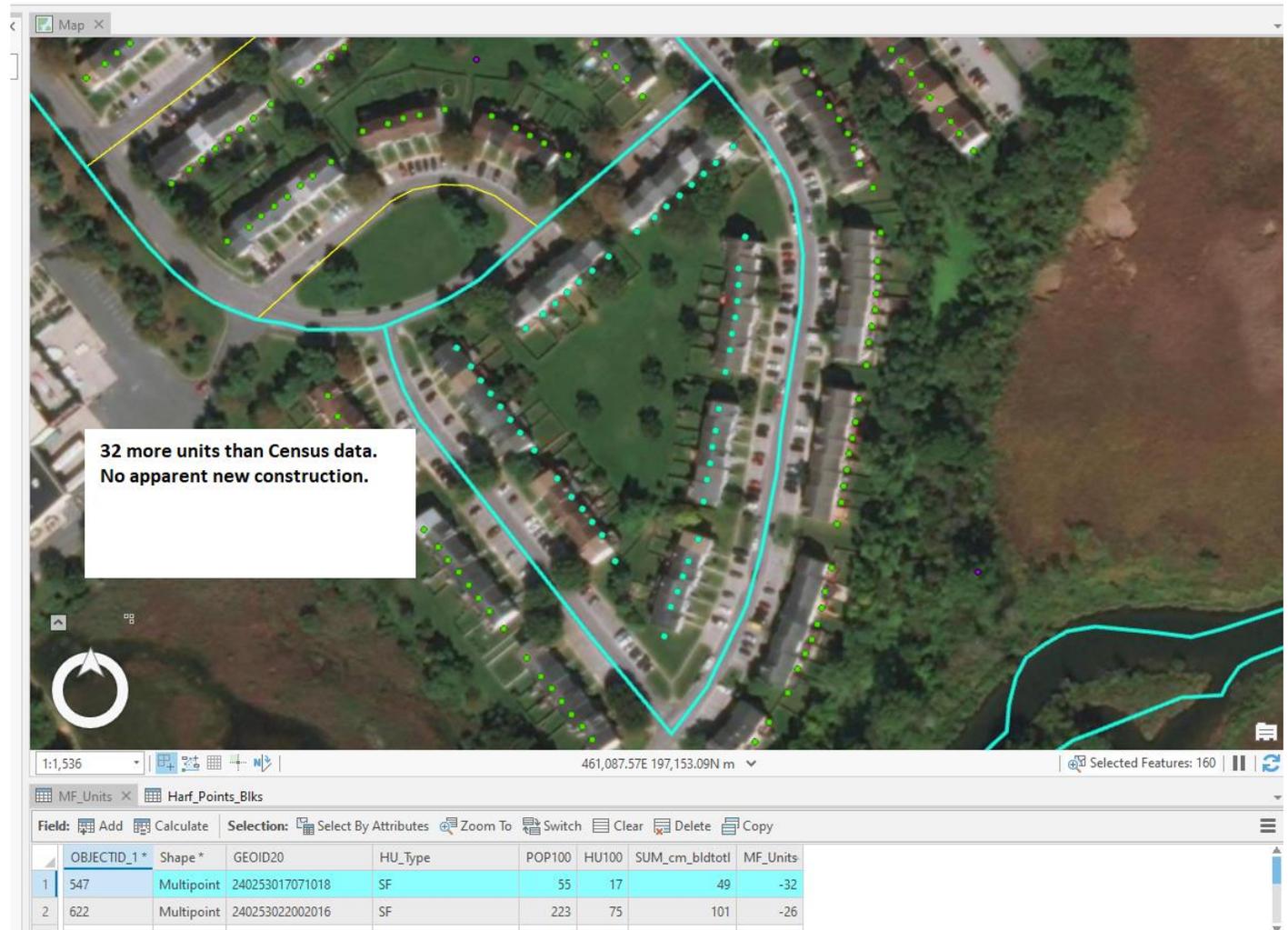
2020 Census Address Count Listing Viewer:

- www.census.gov/data/data-tools.html

EXERCISE: COMPARE VALIDATION DATASET VS. CENSUS HOUSING COUNTS

For valid comparison:

- Include only Residential addresses/units



EXERCISE: COMPARE VALIDATION DATASET VS. CENSUS HOUSING COUNTS

For valid comparison:

- Exclude addresses too new to count



EXERCISE: COMPARE VALIDATION DATASET VS. CENSUS HOUSING COUNTS

For valid comparison:

- Merits investigation: Was there an undercount? Are these apartment properties or subdivisions that Census missed?



IF YOU'RE "IN", WE WILL WORK WITH YOU ON THIS

Local governments in Maryland - we will work with you on this!

- Training, technical assistance, supporting data resources
- We will “kick off” with an announcement to our local partners, and list of local governments that participated in LUCA
- Workshop on CQR anticipate December/January

PUBLIC USE MICRODATA SAMPLE AND PUBLIC USE MICRODATA AREAS

2020 CENSUS PUBLIC USE MICRODATA SAMPLE (PUMS)

- What are the PUMS files?
 - The U. S. Census Bureau's Public Use Microdata Sample (PUMS) files are a set of records from individual people or housing units.
 - PUMS files incorporates disclosure protection so that individuals or housing units cannot be identified.

PUMS GEOGRAPHIES

Data are available for specified geographies:

- U. S. Regions
- U. S. Divisions
- States
- Public Use Microdata Areas (PUMAs)
 - PUMAs have a minimum population threshold of 100,000 persons
 - PUMAs are the smallest geography for which PUMS data are available

PRELIMINARY SCHEDULE FOR DELINEATING PUMAS

Summer 2021

Final 2020 PUMA criteria posted to Census web page.

September 2021

Census Bureau sends email notification to State Data Center points of contact officially announcing the program. Participant materials post on web page.

Fall 2021

Census Bureau conducts training (Oct. 6th, Oct. 27th and Dec. 15th)

November 2021 through January 2022

The 90 - day review period for the State Data center to delineate and submit PUMAs.

Summer 2022

Final 2020 PUMAs and their associated data are available online

MARYLAND JURISDICTION POPULATION 2020 AND 2010

JURISDICTION	CENSUS		CHANGE	
	2020	2010	Net	Percent
MARYLAND	6,177,224	5,773,552	403,672	7.0%
Allegany	68,106	75,087	-6,981	-9.3%
Anne Arundel	588,261	537,656	50,605	9.4%
Baltimore City	585,708	620,961	-35,253	-5.7%
Baltimore County	854,535	805,029	49,506	6.1%
Calvert	92,783	88,737	4,046	4.6%
Caroline	33,293	33,066	227	0.7%
Carroll	172,891	167,134	5,757	3.4%
Cecil	103,725	101,108	2,617	2.6%
Charles	166,617	146,551	20,066	13.7%
Dorchester	32,531	32,618	-87	-0.3%
Frederick	271,717	233,385	38,332	16.4%
Garrett	28,806	30,097	-1,291	-4.3%
Harford	260,924	244,826	16,098	6.6%
Howard	332,317	287,085	45,232	15.8%
Kent	19,198	20,197	-999	-4.9%
Montgomery	1,062,061	971,777	90,284	9.3%
Prince George's	967,201	863,420	103,781	12.0%
Queen Anne's	49,874	47,798	2,076	4.3%
St. Mary's	113,777	105,151	8,626	8.2%
Somerset	24,620	26,470	-1,850	-7.0%
Talbot	37,526	37,782	-256	-0.7%
Washington	154,705	147,430	7,275	4.9%
Wicomico	103,588	98,733	4,855	4.9%
Worcester	52,460	51,454	1,006	2.0%

MARYLAND 2010 PUMAS AND POTENTIAL 2020 PUMAS

JURISDICTION	CENSUS		2010 PUMA Count	Potential 2020 PUMA Count	2020 POTENTIAL PUMA TYPE		
	2020	2010			Single	Multi	PUMA part
MARYLAND	6,177,224	5,773,552	44	61	6	8	
Allegany	68,106	75,087	0.5	pt			X
Anne Arundel	588,261	537,656	4	5		X	
Baltimore City	585,708	620,961	5	5		X	
Baltimore County	854,535	805,029	7	8		X	
Calvert	92,783	88,737	0.5	pt			X
Caroline	33,293	33,066	0.2	pt			X
Carroll	172,891	167,134	1	1	X		
Cecil	103,725	101,108	1	1	X		
Charles	166,617	146,551	1	1	X		
Dorchester	32,531	32,618	0.2	pt			X
Frederick	271,717	233,385	2	2		X	
Garrett	28,806	30,097	0.5	pt			X
Harford	260,924	244,826	2	2		X	
Howard	332,317	287,085	2	3		X	
Kent	19,198	20,197	0.2	pt			X
Montgomery	1,062,061	971,777	7	10		X	
Prince George's	967,201	863,420	7	9		X	
Queen Anne's	49,874	47,798	0.2	pt			X
St. Mary's	113,777	105,151	0.5	1	X		
Somerset	24,620	26,470	0.34	pt			X
Talbot	37,526	37,782	0.2	pt			X
Washington	154,705	147,430	1	1	X		
Wicomico	103,588	98,733	0.33	1	X		
Worcester	52,460	51,454	0.33	pt			X

UPCOMING PUMA WORKSHOP

- Maryland State Data Center to host a PUMA workshop - tentatively on November 5th
- Go over PUMA delineation guidelines
- Overview of using the software
- Schedule
- Technical assistance

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Q&A