

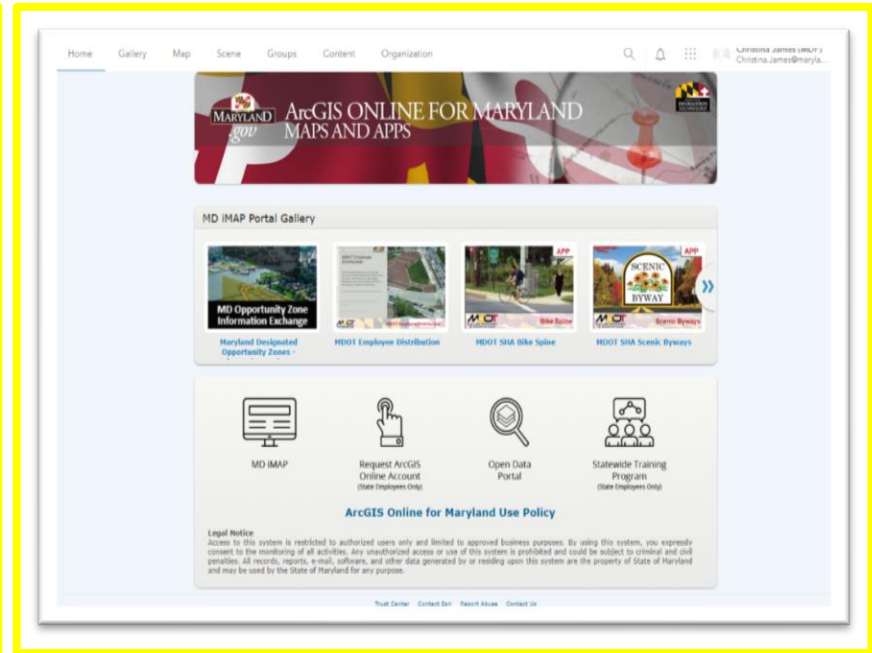
USING STORY MAPS TO VISUALIZE DATA

Christina James - Planner



ESRI Story Maps

arcgisonline.com



Home Gallery Map Scene Groups Content Organization

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Add Item Create Search Sustainable Growth Table Date Modified Filter

Christina James (MDP)
Christina.James@maryla...

Folders

- Filter folders
- All My Content
- Christina.James@maryland.gov_maryland
- Sustainable Growth
- Training

Filters

- Item Type
 - Maps
 - Layers
 - Scenes
 - Apps
 - Tools
 - Files
- Location
- Date Modified
- Date Created
- Shared

1 - 5 of 5 in Sustainable Growth

Title	Modified
Sustainable Growth Awards Map	Web Map Sep 17, 2019
Maryland Sustainable Growth Awards	Web Mapping Application Aug 6, 2019
Preservation and Conservation	Web Mapping Application Aug 6, 2019
Sustainable Communities	Web Mapping Application Aug 6, 2019
Leadership and Service	Web Mapping Application Jul 12, 2019



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Create a web app

Select a configurable app. ?

story

Story Map Crowdsource (Retired) Multiviewer Storytelling (Retired) Story Map Cascade Story Map Shortlist

Story Map Series Story Map Basic (Retired) Story Map Journal Story Map Swipe and Spyglass

1 2

Cancel

Date Modified Filter

Modified

Aug 6, 2019

Aug 6, 2019

Aug 6, 2019

Jul 15, 2019

Jul 12, 2019



Maryland Sustainable Growth Awards

Maryland Sustainable Growth Awards

A Story Map

Sustainable Growth Awards Map | Leadership and Service | Preservation and Conservation | Sustainable Communities

Maryland Sustainable Growth Awards

Established by the Maryland General Assembly in 2010, the Sustainable Growth Commission makes recommendations on growth and development issues and celebrates smart growth achievements with an annual awards program. The commission operates under a specific statutory charge.

Maryland Sustainable Growth Awards

Presented by the Maryland Sustainable Growth Commission.

The Maryland Sustainable Growth Awards celebrate significant achievement by individuals, businesses, organizations and local governments to realize the 12 planning visions adopted by the Maryland General Assembly. The awards promote exemplary work that represents or inspires collaboration, innovation, conservation, community impact and quality of life.

1. Quality of Life and Sustainability
2. Public Participation
3. Growth Areas
4. Community Design
5. Infrastructure
6. Transportation
7. Housing
8. Economic Development
9. Environmental Protection
10. Resource Conservation
11. Stewardship
12. Implementation

Sustainable_Growth -
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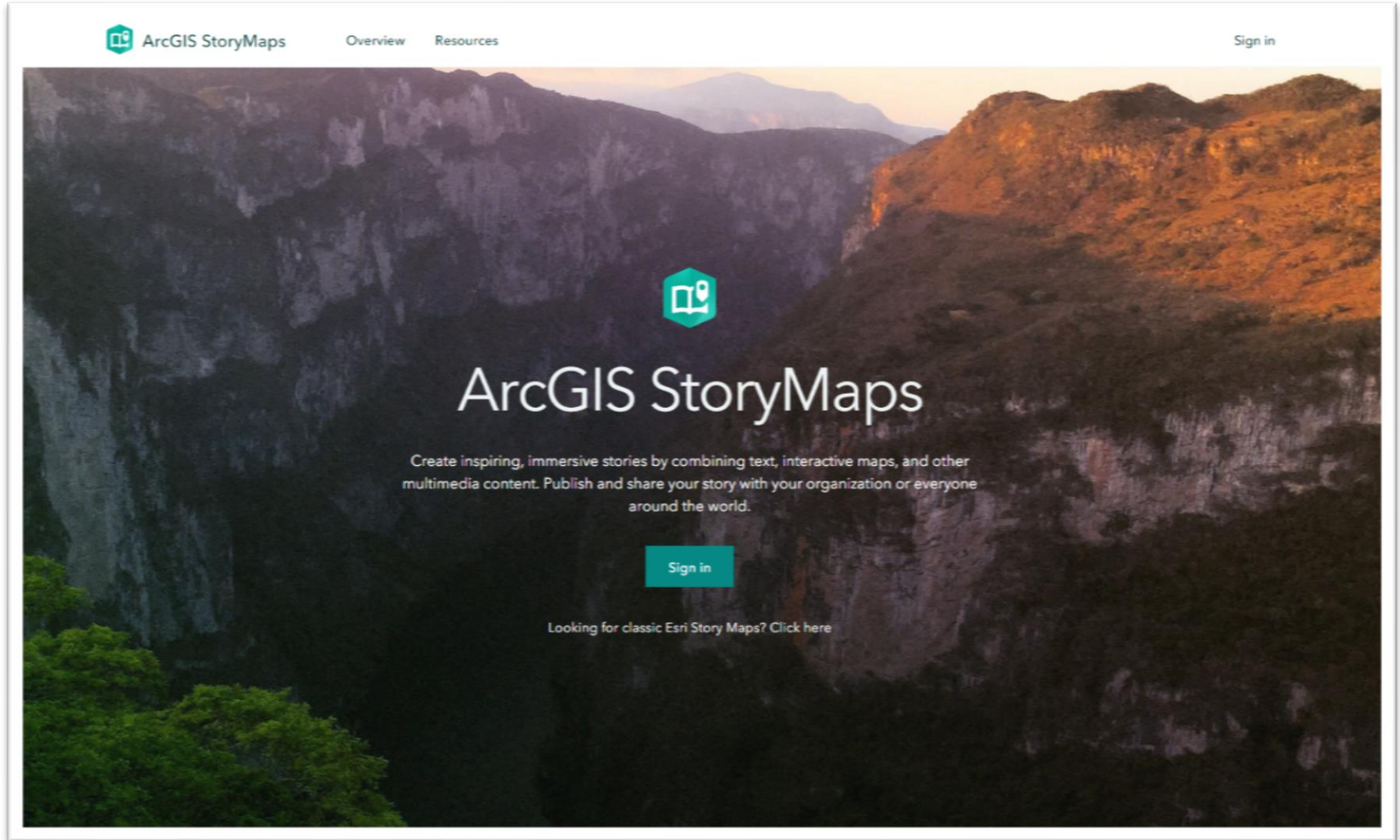
Sustainable_Growth - Sustainable Growth Awards

- ★ Leadership and Service
- ★ Preservation/Conservation
- ★ Sustainable Communities
- ★ <all other values>

[Web Application](#)



Released August 2019



My Stories

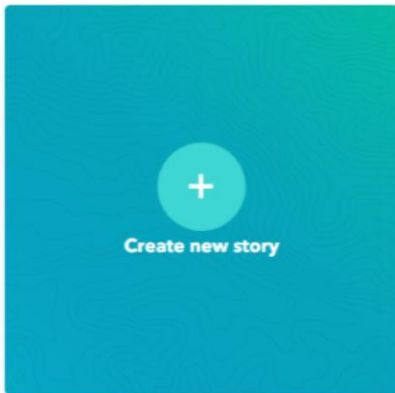
Search My Stories

My Stories

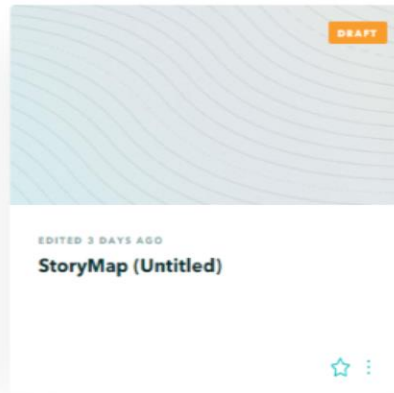
My Favorites

My Organization

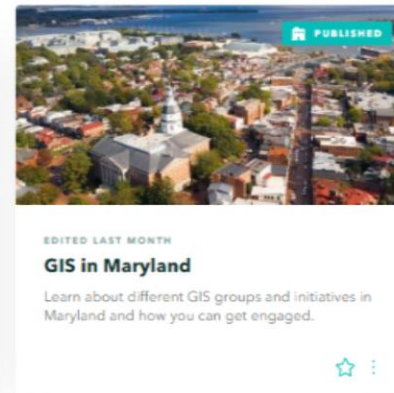
All ▾



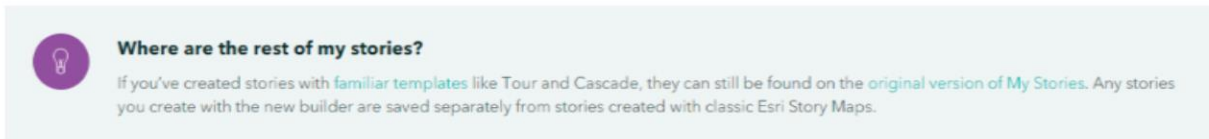
A large teal button with a white plus sign in a circle and the text "Create new story" below it.



A card with a light blue wavy background. At the top right is an orange "DRAFT" label. Below is the text "EDITED 3 DAYS AGO" and "StoryMap (Untitled)". At the bottom right are a star icon and a vertical ellipsis icon.



A card with an aerial photograph of a town. At the top right is a teal "PUBLISHED" label. Below is the text "EDITED LAST MONTH" and "GIS in Maryland". Underneath is a short paragraph: "Learn about different GIS groups and initiatives in Maryland and how you can get engaged." At the bottom right are a star icon and a vertical ellipsis icon.



A light blue informational box. It starts with a purple lightbulb icon and the heading "Where are the rest of my stories?". The text below reads: "If you've created stories with familiar templates like Tour and Cascade, they can still be found on the original version of My Stories. Any stories you create with the new builder are saved separately from stories created with classic Esri Story Maps."




Title your story


Start with a short introduction or subtitle (optional)

Christina James (MDP) | Draft



 Add image

 Add video

 Tell your story...



View on MapStory

Save story

A geographic information system (GIS) is a framework for gathering, managing, and analyzing data. Rooted in the science of geography, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes. With this unique capability, GIS reveals deeper insights into data, such as patterns, relationships, and situations—helping users make smarter decisions.

Back in 1974 the State of Maryland, particularly the Department of State Planning became one of the first State agencies in the nation to implement a Geographic Information System. Today Maryland throughout the State hosts a lot of groups and initiatives that support GIS activities and promotes a collaborative atmosphere for GIS professionals to grow and share the work.

Maryland State Geographic Information Committee (MSGIC)

In 1992, MSGIC was established to officially coordinate GIS activities for agencies in the Executive Branch of State government. MSGIC served as an effective coordinating body for State agencies throughout the 1990s, but it has since evolved to a Committee that represents

View on MapStory

Save story

MSGIC's meetings locations are spread across Maryland, so more people could make time and come to one of the quarterly meetings when it is close to the member's location. On a map, you can see meetings' locations for the year 2017.

GIS in Maryland

Edit story

MSGIC members welcome comments, and invite you to share ideas and bring issues to our attention."

View on MapStory

Save story

Get involved



ArcGIS Online Assistant Search My Content I want to Christina James (MDP) (Christina.James@maryland.gov_maryland)

ArcGIS Online for Maryland - <https://maryland.maps.arcgis.com/>

Current User: Christina James (MDP) (Christina.James@maryland.gov_maryland) Refresh

- Root 1
- Sustainable Growth 5
- Training 8
 - GIS in Maryland
 - Mapping the Census
 - Parks and Playgrounds in Ocean City, Maryland
 - Parks and Playgrounds in Ocean City, Maryland
 - RMC Statewide Broadband Assessment (Served_2016)-TJ
 - RMC Statewide Broadband Assessment-TJ
 - RMC Statewide Broadband Assessment-TJ
 - State Assessment of Maryland Broadband Availability

GIS in Maryland

Description (View Item Details)

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USING POWER BI: FORMATTING DATA, CREATING REPORTS, AND HOSTING DASHBOARDS

William L Kiskowski - Planner IV - Maryland State Data Center




POWER BI AS A DATA DELIVERY PRODUCT

- Data Use
 - PSDC Operations
 - Data Gathering
 - *Processing*
 - *Dissemination*
 - *Many individual reports by subject*
 - Geography Levels
 - Subject Variables
- Formatting for PBI
 - Vertical Arrangement of Data fields
 - Columns should be limited
 - Rows should be emphasized





2013-2017 Multi-Year ACS 5-year Estimates for All Geographies

The 2013-2017 5-year American Community Survey (ACS) estimates are available as a single formatted profile and a single file containing the raw data. The formatted profiles for each geography are combined into a single Adobe Acrobat file (social, economic, housing, and demographic profiles). The raw data for a geography has been combined into a single Excel file and is presented for download at the bottom of the page and is designated by the Excel icon. .

Note: The 2013-2017 ACS Profiles for all geographies have been combined into one Adobe Acrobat file. The social, economic, housing, and demographic profiles are found in one file. This is a change from prior years where the individual profiles were downloadable as separate files.

Social, Economic, Housing, and Demographic Profiles by Geography

United States 

Maryland 

Census Tracts

- Select Jurisdiction -

- Select Jurisdiction Map -

- Select Jurisdiction Chart -

- Select Places -

- Select Congressional District -

- Select Legislative District (Senate) -

SELECTED SOCIAL CHARACTERISTICS
2013-2017 American Community Survey 5-Year Estimates

Area Name : Maryland

Subject	FIPS Code : 24			
	Estimate	Estimate Margin of Error	Percent	Percent Margin of Error
HOUSEHOLDS BY TYPE				
Total households	2,181,093	+/- 4999	100.0%	+/- (X)
Family households (families)	1,460,186	+/- 6925	66.9%	+/- 0.2
With own children under 18 years	629,902	+/- 4957	28.9%	+/- 0.2
Married-couple family	1,044,302	+/- 7321	47.9%	+/- 0.3
With own children under 18 years	428,666	+/- 5091	19.7%	+/- 0.2
Male householder, no wife present, family	106,150	+/- 2406	4.9%	+/- 0.1
With own children under 18 years	48,230	+/- 1689	2.2%	+/- 0.1
Female householder, no husband present, family	309,734	+/- 3814	14.2%	+/- 0.2
With own children under 18 years	153,006	+/- 2503	7%	+/- 0.1
Nonfamily households	720,907	+/- 5129	33.1%	+/- 0.2
Householder living alone	588,076	+/- 5022	27%	+/- 0.2
65 years and over	216,696	+/- 3295	9.9%	+/- 0.1
Households with one or more people under 18 years	713,897	+/- 4883	32.7%	+/- 0.2
Households with one or more people 65 years and over	597,199	+/- 2530	27.4%	+/- 0.1
Average household size	2.68	+/- 0.01	(X)%	+/- (X)
Average family size	3.27	+/- 0.01	(X)%	+/- (X)
RELATIONSHIP				
Population in households	5,855,584	+/- *****	100.0%	+/- (X)
Householder	2,181,093	+/- 4999	37.2%	+/- 0.1
Spouse	1,044,487	+/- 7034	17.8%	+/- 0.1
Child	1,800,790	+/- 6083	30.8%	+/- 0.1
Other relatives	473,601	+/- 7177	8.1%	+/- 0.1
Nonrelatives	355,613	+/- 6239	6.1%	+/- 0.1
Unmarried partner	123,082	+/- 2158	2.1%	+/- 0.1
MARITAL STATUS				
Males 15 years and over	2,336,556	+/- 502	100.0%	+/- (X)
Never married	879,305	+/- 5696	37.6%	+/- 0.2
Now married, except separated	1,157,583	+/- 7168	49.5%	+/- 0.3
Separated	48,465	+/- 1692	2.1%	+/- 0.1
Widowed	56,436	+/- 1413	2.4%	+/- 0.1
Divorced	194,767	+/- 2940	8.3%	+/- 0.1
Females 15 years and over	2,542,673	+/- 419	100.0%	+/- (X)
Never married	834,964	+/- 4711	32.8%	+/- 0.2
Now married, except separated	1,135,269	+/- 6149	44.6%	+/- 0.2
Separated	62,252	+/- 1930	2.4%	+/- 0.1

AutoSave Off | Estimates_Data_workshop.xlsx_Format2.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Acrobat Tell me what you want to do

Clipboard: Paste, Cut, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Paragraph, Color, Text Color

Alignment: Wrap Text, Merge & Center, Left, Center, Right, Indent, Decrease Indent, Increase Indent

Number: General, Currency, Percentage, Decimals, Thousands Separator

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Formula Bar: B6 = 73566

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4	2011	74562	544744	812797	89318	32887	167019	101561	149182	
5	2012	73936	550311	818023	89715	32631	167032	101753	150660	
6	2013	73566	555438	822238	90438	32647	167199	101891	152649	
7	2014	73007	559691	825006	90545	32535	167317	102201	154373	
8	2015	72462	563502	827471	90468	32591	167133	102418	155692	
9	2016	72055	567665	828616	91028	32836	167110	102567	157336	
10	2017	71386	571592	828603	91365	33108	167620	102573	159451	
11	2018	70975	576031	828431	92003	33304	168429	102826	161503	
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	A	B	C	D	E	F	G	H	I	J	K	L	
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3	24003	24	003	Maryland	Anne Arundel County	539277	544744	550311	555438	559691	563502	567665	
4	24005	24	005	Maryland	Baltimore County	806560	812797	818023	822238	825006	827471	828616	
5	24009	24	009	Maryland	Calvert County	88988	89318	89715	90438	90545	90468	91028	
6	24011	24	011	Maryland	Caroline County	33054	32887	32631	32647	32535	32591	32836	
7	24013	24	013	Maryland	Carroll County	167212	167019	167032	167199	167317	167133	167110	
8	24015	24	015	Maryland	Cecil County	101167	101561	101753	101891	102201	102418	102567	
9	24017	24	017	Maryland	Charles County	147156	149182	150660	152649	154373	155692	157336	
10	24019	24	019	Maryland	Dorchester County	32688	32694	32473	32559	32495	32404	32261	
11	24021	24	021	Maryland	Frederick County	234204	237263	239643	241143	243417	245114	247224	
12	24023	24	023	Maryland	Garrett County	30141	30148	29964	29964	29649	29435	29371	
13	24025	24	025	Maryland	Harford County	245235	246704	248556	248892	249330	249589	250361	
14	24027	24	027	Maryland	Howard County	288628	293579	299213	303583	306998	311449	315619	
15	24029	24	029	Maryland	Kent County	20212	20247	19970	19812	19771	19713	19662	
16	24031	24	031	Maryland	Montgomery County	976287	991833	1005852	1016064	1025617	1033994	1040245	1
17	24033	24	033	Maryland	Prince George's County	865747	873679	881870	890117	899223	905737	907939	
18	24035	24	035	Maryland	Queen Anne's County	47809	48262	48503	48527	48793	48991	49074	
19	24037	24	037	Maryland	St. Mary's County	105762	107558	108805	109228	109926	110965	111689	
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24	24047	24	047	Maryland	Worcester County	51501	51501	51580	51550	51572	51425	51424	
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27													

Untitled - Power BI Desktop

File Home Modeling Help

Clipboard Get Data Recent Sources Enter Data Edit Queries Refresh New Page New Visual Ask A Question Buttons

External data Insert

County FIPS Code	County Name	Year	Population
24001	Allegany County, Maryland	2010	74,966
24003	Anne Arundel County, Maryland	2010	539,277
24005	Baltimore County, Maryland	2010	806,560
24009	Calvert County, Maryland	2010	88,988
24011	Caroline County, Maryland	2010	33,054
24013	Carroll County, Maryland	2010	167,212
24015	Cecil County, Maryland	2010	101,167
24017	Charles County, Maryland	2010	147,156
24019	Dorchester County, Maryland	2010	32,688
24021	Frederick County, Maryland	2010	234,204
24023	Garrett County, Maryland	2010	30,141
24025	Harford County, Maryland	2010	245,235
24027	Howard County, Maryland	2010	288,628
24029	Kent County, Maryland	2010	20,212
24031	Montgomery County, Maryland	2010	976,287
24033	Prince George's County, Maryland	2010	865,747
24035	Queen Anne's County, Maryland	2010	47,809
24037	St. Mary's County, Maryland	2010	105,762
24039	Somerset County, Maryland	2010	26,464
24041	Talbot County, Maryland	2010	37,874
24043	Washington County, Maryland	2010	147,734
24045	Wicomico County, Maryland	2010	98,971
24047	Worcester County, Maryland	2010	51,501

TABLE: PEP_2018_PEPANNRES_with_ann (216 rows)



CREATING REPORTS IN POWER BI

Maryland Population Estimates for 2010-2018

Average of County FIPS Code and Population by County FIPS Code

County Name	Population	Year
Montgomery County, Maryland	1,052,567	2018
Prince George's County, Maryland	909,308	2018
Baltimore County, Maryland	828,431	2018
Baltimore city, Maryland	602,495	2018
Anne Arundel County, Maryland	576,031	2018
Howard County, Maryland	323,196	2018
Frederick County, Maryland	255,648	2018
Harford County, Maryland	253,956	2018
Carroll County, Maryland	168,429	2018
Charles County, Maryland	161,503	2018
Washington County, Maryland	150,926	2018
St. Mary's County, Maryland	112,664	2018
Wicomico County, Maryland	103,195	2018
Cecil County, Maryland	102,826	2018
Calvert County, Maryland	92,003	2018
Allegany County, Maryland	70,975	2018
Worcester County, Maryland	51,823	2018
Queen Anne's County, Maryland	50,251	2018
Talbot County, Maryland	36,968	2018
Caroline County, Maryland	33,304	2018
Dorchester County, Maryland	31,998	2018
Garrett County, Maryland	29,163	2018
Somerset County, Maryland	25,675	2018
Kent County, Maryland	19,383	2018
Total	6,042,718	

Source: Population Division, U.S. Census Bureau, release date April 18, 2019

Pop_EST_DEMO

[View in Power BI](#) ↗

Last data refresh:
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Standard Time
Downloaded at:
9/11/2019 11:56:14 AM Eastern
Standard Time

<https://app.powerbigov.us/groups/me/dashboards/2a2c0044-d331-43bd-971f-c713fed87c73?ctid=60afe9e2-49cd-49b1-8851-64df0276a2e8>

LAUNCHING DASHBOARDS IN POWER BI

County Name

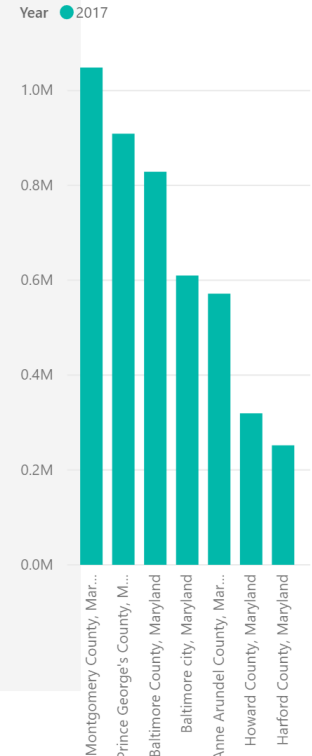
Year

Maryland Population Estimates for 2010-2018

County Name	Population	Year
Montgomery County, Maryland	1,048,244	2017
Prince George's County, Maryland	908,801	2017
Baltimore County, Maryland	828,603	2017
Baltimore city, Maryland	609,841	2017
Anne Arundel County, Maryland	571,592	2017
Howard County, Maryland	319,374	2017
Harford County, Maryland	251,890	2017
Frederick County, Maryland	250,959	2017
Carroll County, Maryland	167,620	2017
Charles County, Maryland	159,451	2017
Washington County, Maryland	150,288	2017
St. Mary's County, Maryland	112,413	2017
Cecil County, Maryland	102,573	2017
Wicomico County, Maryland	102,363	2017
Calvert County, Maryland	91,365	2017
Allegany County, Maryland	71,386	2017
Worcester County, Maryland	51,577	2017
Queen Anne's County, Maryland	49,667	2017
Talbot County, Maryland	37,020	2017
Caroline County, Maryland	33,108	2017
Dorchester County, Maryland	32,145	2017
Garrett County, Maryland	29,261	2017
Somerset County, Maryland	25,913	2017
Kent County, Maryland	19,437	2017
Total	6,024,891	



Population by County Name and Year



Source: Population Division, U.S. Census Bureau, release date April 18, 2019



FUTURE EXPECTATIONS AND CONSIDERATIONS

- Updating a report with new data automatically will refresh information in Dashboard.
- Future iterations will expect more data manipulation functionality as well as automated data translation.
 - Automatically connect to API
 - Automatically Format data in accordance with pre-set configuration
 - Face data for non-licensed users



THANK YOU. QUESTIONS?

