DATA.CENSUS.GOV DEEP LINKING GUIDE

Census Enterprise Dissemination Services and Consumer Innovation (CEDSCI)

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Table of Contents

1	P	urpo	se	. 1
2	U	nder	standing the data.census.gov URL format	. 2
	2.1	Glob	oal URL Parameters	. 2
	2.	1.1	Geo IDs and Collections Explained	. 4
	2.2	Spe	cific URL Parameters	. 6
	2.	2.1	Map Specific Parameters	. 7
	2.	2.2	Table Specific Parameters	. 8
	2.	2.3	Profile Page Specific Parameters	. 9
	2.3	Spe	cial Characters	. 9
3	D	eep l	Link Use Cases	11
	3.1	Use	Case – Population and People in Maryland – All Results and Table Results	11
	3.	1.1	Linking to All Search Results	11
	3.	1.2	Linking directly to Table Results	12
	3.2	Use	Case - Population Total in Maryland – All Results and Map Results	14
	3.	2.1	Linking to All Search Results	14
	3.	2.2	Linking Directly to Map Results	15
	3.	2.3	Linking to Customized Map Results	18
	3.3	Use	Case – Linking Directly to a Table	20
	3.	3.1	Building a Direct Table Link	20
	3.	3.2	Updating a Direct Table Link	20
	3.4	Use	Case – Profile Page Deep Linking	22
	3.	4.1	Creating Profile Page Deep Links	22
	3.	4.2	Creating Deep Links to Sections on a Profile Page	23
4	E	xamp	bles of Linking to Search Results in Basic Search	24
5	E	xamp	bles of Linking to Table results from Basic Search	25
APPEN	DIX A 2	xamp	bles of Linking to Map results from Basic Search	26
7	E	xamp	Dies of Linking to a Geography Profile	27
			Building Deep Links with Advanced Search	28

Table of Figures

Figure 1 – Geographic Summary Levels	.4
Figure 2 – Obtaining Geographic ID from Advanced Search	.5

Table of Tables

Table 1 Global URL Parameters	2
Table 2 - Map Specific Parameters	7
Table 3 – Table Specific Parameters	8
Table 4 – Profile Page Specific Parameters	9
Table 5 – URL Encoded Values for Special Characters	9
Table 6 – Special Characters with Functions in URL	10

1 Purpose

The data.census.gov platform utilizes Uniform Resource Locators (URLs) to store information about the data being displayed. As a user creates searches, views results, and customizes tables or maps, these interactions are captured in the URL. As a result, users may save these URLs and use them to easily share information.

The purpose of this document is to demonstrate how a deep link URL may be built using the site parameters. This document should enable the construction of a deep link by any user. Using this guide, users will gain an understanding of how data.census.gov URLs are constructed, the meaning of each parameter, and of how to combine any number of these discrete parameters available to generate valid URLs.

2 Understanding the data.census.gov URL format

The URL for information on data.census.gov always begins with the landing page address (<u>https://data.census.gov/cedsci/</u>). The parameters added after this address are based on the search criteria entered by a user, or the changes made by a user to what data is displayed (for example selecting specific years for a table). This allows an end user to reuse that updated URL for deep linking directly to a customized table or map by making changes to the URL for the results returned from an initial query.

These parameters are classified into two groups:

- 1. Global parameters, which are used for all URL types regardless of page or component
- 2. Specific parameters, which are used by only a few pages or components, for example parameters for Maps and Table results pages

The available values for a given parameter can vary greatly depending on the circumstances in which it is selected. For example, if the survey (d=) parameter references the Decennial Census, certain values for years (y=) will be unavailable, since Decennial tables only cover certain years. The data.census.gov <u>advanced search</u> functionality provides a powerful tool for exploring URL parameters, available values, and the interactions between different parameter combinations.

Note: To effectively deep link in data.census.gov, certain special characters must be appropriately encoded when used in the URL. Section 2.3 provides information on how to correctly encode special characters.

2.1 Global URL Parameters

Global URL Parameters can be used in any section or page in data.census.gov. (i.e. Tables, Maps). Table 1 explains the parameters of a data.census.gov URL for both searches and results.

Note that when multiple parameters are included in a URL, only the first parameter utilizes a question mark as a separator. All subsequent parameters are separated by an ampersand (&).

In the example below, the geography selection is expressed by **?g=** with a question mark separating it from the first parameter. By contrast, the topic is expressed by **&t=**, with an ampersand separating it from the second parameter.

https://data.census.gov/cedsci/all?g=0400000US24&t=Populations%20and%20People

Table 1 - Global URL Parameters

Parameter	Meaning	Example
/all?	Default parameter for search results. When inserted, all result types (maps, tables, and pages) are displayed	https://data.census.gov/cedsci/all?
/map?	When inserted following the base URL, displays map results instead of all results	https://data.census.gov/cedsci/map?
/table?	When inserted following the base URL, displays table results instead of all results	https://data.census.gov/cedsci/table?
/webpages?	When inserted following the base URL, displayed web page results instead of all results	
text=	Text entered in first search box under the advanced search heading	text=DP05
q=	The text typed into the single search bar	q=income (see section 2.3 for information on how to handle spaces in text searches)
t=	Topics from the filter panel or from Advanced Search	t=poverty
g=	Geographies, represented with GEOIDs	g=0400000US24 (see section 2.1.1 for detailed explanation)
y=	Year	y=2017
d=	Dataset Allows for the input of plain text survey names into the URL Note: Entry must utilize URL Encoded Values for special characters. See Section 2.3 for more information	d=DEC%20Summary%20File%201 The above example provides a properly formatted parameter for DEC Summary File 1
n=	North American Industry <u>Classification System</u> (NAICS) Code(s)	n=5312

Parameter	Meaning	Example
p=	Product/Service Code(s)	p=10113
matfuel=	Material/Fuel Code(s)	matfuel=00971000
napcs=	North American Product Classification System (NAPCS) Code(s)	napcs=4000025000
comm=	Commodity Flow Survey (CFS) Code(s)	comm=0413
tid=	Table ID, containing information on the product and the table displayed.	tid=ACSST1Y2017.S1701 In this example tid references table S1701, for the 2017 ACS 1-Year Estimates Subject Table (ACSST1Y2017)
	Format: [ProductName].[TableID]	

2.1.1 Geo IDs and Collections Explained

Geographic identifiers (GEOIDs) are utilized to narrow a search to a specific geographic area, represented by a unique identifier. GEOIDs are numeric codes that uniquely identify all administrative/legal and statistical geographic areas for which the Census Bureau tabulates data. From Alaska, the largest state, to the smallest census block in New York City, every geographic area has a unique GEOID.

Detailed information on GEOIDs can be found on the Census website on the <u>Understanding</u> <u>Geographic Identifiers (GEOIDs)</u> page. For further information on Census Geographies as a whole, please see the <u>Guidance for Geography Users</u>,

2.1.1.1 Geographic IDs on data.census.gov

Census Geographic IDs contain a significant amount of information regarding the selected areas. This is reflected in the structure of the ID. Geographic IDs use are constructed as follows:

Figure 1 – Geographic Summary Levels

0100000US	- United States			
0100001US	- United States - Urban			
0400000us39	- Ohio			
0500000us39023	- Clark County, Ohio			
1600000US3974118	- Springfield City, Ohio			
5000600us0602	- Congressional District 2 (106th Congress), California			
-FIP	S code(s) or other geographic codes (varies with summary level)			
└Geographic	component			
Geographic variant (Congressional District vintage)				
-Geographic summa	ry level			

On data.census.gov, geographies are represented in the URL by the parameter g=

When geographies within different geographic summary levels are selected, they are divided by an underscore in the URL. Below are a few examples:

- g=0400000US02,12_0500000US24005 Selecting Alaska (02) and Florida (12) within State (040) AND selecting Baltimore County, MD (24005) under Maryland within County (050)
- g=0400000US02,12_0500000US24005,26003 Selecting Alaska (02) and Florida (12) within State (040) AND selecting Baltimore County, MD (24005) and Alger County, MI (26003) within County (050)

The Geographic ID for a specific location can be obtained using the <u>Advanced Search</u> function of data.census.gov. On the advanced search page, users may browse geographies available on the site. When a specific geography is selected, the URL updates with that geography.

For example, if Island County, WA is selected via the Advanced Search screen, the URL updates with g=0500000US53029, the geo ID for Island County.

Figure 2 – Obtaining Geographic ID from Advanced Search

aam MetroStar - Home 📆 CE	DSCI - CEDCSI Home 🔡 CEDSCI Dashboard - M Q Search	ain 遵 EC	DDE BA Notes 🛐 🔰 DRUA - Planner	🗐 DRUA	- Home	
g. 336111 - Automobile	Manufacturing		Q			
BROWSE FILTERS Topics	GEOGRAPHY		COUNTY Pennsylvania	۹ ^	WASHINGTON	C
Geography Years Surveys Codes	Nation Region Division State County	^	Puerto Rico Rhode Island South Carolina South Dakota Tennessee		 Ferry County, Washington Franklin County, Washington Garfield County, Washington Grant County, Washington 	
	Tract Block Group Block Zip Code Tabulation Area		Texas United States Virgin Islands Utah Vermont Virginia		 Grays Harbor County, Washington Island County, Washington Jefferson County, Washington 	
	(Five-Digit) Elementary School District Secondary School District		Washington West Virginia Wisconsin		 King County, Washington Kitsap County, Washington Kittitas County, Washington 	

2.1.1.2 Geography Collections on data.census.gov

Geography collections allow users to select a collection of geographies in bulk, using either a single checkbox in Advanced Search, or a single parameter within the URL. A comprehensive list of currently available collections can be found in Appendix 2 of the data.census.gov <u>Release Notes</u>.

Within the URL, geography collections are represented by a g= parameter value combining the GeoID for the containing geography with the Geographic Summary Level of the items within the collection.

For example, All Counties in Alabama would be represented as g=0400000US01.050000

0400000US01 is the GeoID for Alabama and **050000** indicates that all geographic ids at the county summary level should be selected within Alabama.

2.2 Specific URL Parameters

Specific URL Parameters are used in specified sections of data.census.gov and only apply to content in that section (e.g. Tables, Maps).

2.2.1 Map Specific Parameters

Table 2 -	Map Sp	ecific P	arameters
-----------	--------	----------	-----------

Parameter	Meaning	Examples	
layer=	Layer (Summary Level) - The boundaries that are shown on the map. These values also contain the vintage for the layer.	layer=VT_2018_050_00_PY_D1 The above example shows the value for the 2018 county level (050_00) boundaries	
	This corresponds to the entries displayed in the Geographies dropdown in the map view.	layer=VT_2018_040_00_PP_D1 The above example shows the value for the 2018 state level" (040_00)	
	It is recommended that users utilize the Geographies dropdown on the map view to generate layer values.	boundaries	
cid=	Cell ID for selected data variable This corresponds to the entries in the Data Variable dropdown in the map view. Changing this dropdown will change the cid in the URL	cid=S1501_C01_003E cid=S1501_C01_001E	
palette=	Selected theme colors Available color palettes can be viewed by selecting Customize Map and then selecting the Color Palette Dropdown	palette=Spectral palette=YlOrBr	
break=	Selected number of ranges to divide thematic data Available breaks range from 1 to 9	break=5 break=6	
classification=	Selected classification used to determine breaks Available classifications: • Natural Breaks • Quantile • Equal Interval	classification=Natural%20Breaks classification=Quantile classification=Equal%20Interval	

Parameter	Meaning	Examples
mode=	 Type of map displayed: Selection – map preview with selected geographies displayed, but no table yet selected Thematic – map preview with selected table and geographies displayed on the map Customize – custom map view with selected geographies and table displayed and customization controls available 	mode=customize Note: if mode= does not have a value, the customization panel will not display and instead the table results list will display next to the map
vintage=	Selected vintage (year) of the map boundaries displayed, Vintage is controlled by the year of the product selected. For example, selecting 2014 ACS 5-Year estimates will select 2014 vintage geography extents and vector tiles.	vintage=2018 vintage=2014

2.2.2 Table Specific Parameters

Table 3 – Table Specific Parameters

Parameter	Meaning	Example
hidePreview=	On table results page, controls whether the selected table is shown in preview mode (hidePreview=false) or as a full table (hidePreview=true)	hidePreview=true hidePreview=false
moe=	Show or hide the Margin of Error columns in a table.	moe=true moe=false
tp=	Transpose a table from the default layout.	tp=true tp=false

2.2.3 Profile Page Specific Parameters

Table 4 - Profile Page Specific Parameters

Parameter	Meaning	Example
/profile?	When inserted in conjunction with a geographic entity, this creates a URL for a Profile Page. At the time of publication, Geographic Profile Pages are available for the following summary levels: • Nation • State • County • Place • County Subdivision	profile?g=0400000US51 profile?g=0400000US53

Note: Currently, profile pages are only supported for geographic entities. As additional profile page types are added, additional parameters will be made available to link to them.

2.3 Special Characters

All parameter values must be URL encoded to work correctly in data.census.gov. The browser automatically encodes this upon a submission via data.census.gov searches (For example, when a search query for Population and People is submitted, it is encoded as Population%20and%20People.) However, when adding a link manually users should encode special characters (delimiters) in URL format. This encoding is explained in the table below.

Table 5 –	URL	Encoded	Values	for S	Special	Characters
I abie o	0111	Lincoucu	, and co		peerar	unai accoi o

Special Character	Description	URL Encoded Value
Space	Space	%20
!	exclamation point	%21
#	Hash	%23
\$	dollar sign	%24
%	percent sign	%25
+	plus sign	%2B
/	Slash	%2F

:	Colon	%3A
;	semi-colon	%3B
1	Pipe	%7C

Some special characters serve specific functions in data.census.gov URLs. These characters are not encoded, and their functions are listed in the below table.

Table 6 -	Special	Characters	with	Functions	in	URL
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Special Character	Description	Function in data.census.gov URL
-	minus sign	Used in certain product names
•	Period	Used as part of the domain name and in table IDs. Example: data.census.gov Example: tid=ACSDP1Y2018.DP05
-	Underscore	Used as part of URL construction

3 Deep Link Use Cases

The following use cases demonstrate how different data.census.gov deep link URLs may be constructed utilizing the parameters outlined above.

3.1 Use Case – Population and People in Maryland – All Results and Table Results

3.1.1 Linking to All Search Results

The URL below represents a search for the topic of Populations and People **t=Populations%20and%20People** in Maryland **g=0400000US24** in which all results are displayed **/all**?

Note that the spaces in Populations and People are appropriately encoded [%20]

https://data.census.gov/cedsci/all?g=0400000US24&t=Populations%20and%20People

LL TABLES MAPS PAGES		
out 24,838 results Filter		
ables		EXPLORE DATA
		Maryland Profile
AGE AND SEX Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	2y 2012,2011,2010 Table: S0101	Maryland has a total area of 9,707 square miles, including 2,695.6 square miles of water, making it the 42nd-
POPULATION 60 YEARS AND OVER IN	THE UNITED STATES	largest state by area.
Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	29 2012,2011,2010 Table: S0102	
POPULATION 65 YEARS AND OVER IN	THE UNITED STATES	ACS & CPS 2004-2018
Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	ey 2012,2011,2010 Table: S0103	Public Use Microdata
SELECTED CHARACTERISTICS OF TH	E NATIVE AND FOREIGN-BORN POPULATIONS	
Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	ey 2012,2011,2010 Table: S0501	
SELECTED CHARACTERISTICS OF TH	E FOREIGN-BORN POPULATION BY PERIOD OF ENTRY INTO THE UNITED	
Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	29 ,2012,2011,2010 Table: S0502	
SELECTED CHARACTERISTICS OF TH	E FOREIGN-BORN POPULATION BY REGION OF BIRTH: EUROPE	
Survey/Program: American Community Surve Years: 2019,2018,2017,2016,2015,2014,2013	ey ,2012,2011,2010 Table: S0503	
SELECTED CHARACTERISTICS OF TH	E FOREIGN-BORN POPULATION BY REGION OF BIRTH: ASIA	
Survey/Program: American Community Surve Years: 2019.2018.2017.2016.2015.2014.2013	2012 2011 2010 Table: S0505	

3.1.2 Linking directly to Table Results

By changing **/all?** in the above results to **/table?** the same URL will now link directly to the Table Results for Populations and People in Maryland.

https://data.census.gov/cedsci/table?t=Populations%20and%20People&g=0400000US24 &hidePreview=false

When the table results of this search are returned, additional parameters are included in the URL:

1. **&hidePreview = False** – Indicates that a preview for the first table result will be shown

	Q Search				
ALL TABLES MAPS PAGES 1362 Results Filter Download	AGE AND SEX Survey/Program: American Community Survey TableID: S0101	y Product : <u>2019:</u> <i>J</i>	ACS 1-Year Estimates Subject Tables	CUSTOMIZ	E TABLE
*		Maryland			
AGE AND SEX Survey/Program: American Community Survey		Total		Percent	Colun
Years: 2019,2018,2017,2016,2015,2014,2013,2012,2011,2010	Label	Estimate	Margin of Error	Estimate	sur
Table: S0101	✓ Total population	6,045,680	****	(X)	<pre>Cell/</pre>
POPULATION 60 YEARS AND OVER IN THE	✓ AGE				Colun
UNITED STATES	Under 5 years	358,346	±1,970	5.9%	nn No
Survey/Program: American Community Survey Years:	5 to 9 years	359,505	±7,418	5.9%	otes
2019,2018,2017,2016,2015,2014,2013,2012,2011,2010 Table: S0102	10 to 14 years	390,637	±7,512	6.5%	
	15 to 19 years	381,318	±4,301	6.3%	
POPULATION 65 YEARS AND OVER IN THE	20 to 24 years	372,016	±4,110	6.2%	
UNITED STATES Survey/Program: American Community Survey	25 to 29 years	405,838	±3,109	6.7%	
Years: 2019,2018,2017,2016,2015,2014,2013,2012,2011,2010	30 to 34 years	414,737	±2,980	6.9%	
Table: S0103	35 to 39 years	415,367	±9,485	6.9%	
	40 to 44 years	371,557	±8,732	6.1%	
NATIVE AND FOREIGN-BORN POPULATIONS	45 to 49 years	384,732	±2,353	6.4%	
Survey/Program: American Community Survey	50 to 54 years	411,222	±3,107	6.8%	
2019,2018,2017,2016,2015,2014,2013,2012,2011,2010	55 to 59 years	413,230	±7,487	6.8%	
	60 to 64 years	407,288	±8,053	6.7%	
SELECTED CHARACTERISTICS OF THE	65 to 69 years	317,396	±7,077	5.2%	
FOREIGN-BORN POPULATION BY PERIOD OF	70 to 74 years	247,137	±6,625	4.1%	
Survey/Program: American Community Survey	75 to 79 years	166,203	±4,706	2.7%	
Years: 2019,2018,2017,2016,2015,2014,2013,2012,2011,2010	80 to 84 years	115,604	±4,560	1.9%	
Table: S0502	85 years and over	113,547	±4,132	1.9%	

Clicking CUSTOMIZE TABLE for the previewed S0101 table will load a full view of the table. From this full view, manipulations to the table are further reflected in the URL for example, clicking the MoE toggle, or manually adding **&moe=false** will remove the Margin of Error.

https://data.census.gov/cedsci/table?t=Populations%20and%20People&g=0400000US24 &tid=ACSST1Y2019.S0101&moe=false&hidePreview=true

Census Bureau	Q Search				
// Search / Tables / S0101 AGE AND SEX Survey/Program: American Community Surve	y TablelD: S0101 Product: <u>2019:</u>	ACS 1-Year Estimates Subject Tables	<u>v</u>		
Data Notes Selections 1 Geography	Years 1 Topic Survey Code	e Hide Filter Transpose	e Table Margin of Error Resto	→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	More Data More
	Maryland				
	Total	Percent	Male	Percent Male	Female Country
Label	Estimate	Estimate	Estimate	Estimate	Estimate
 Total population 	6,045,680	(X)	2,928,013	(X)	3,117,66 🔶
✓ AGE					Colum
Under 5 years	358,346	5.9%	182,785	6.2%	175,56 N
5 to 9 years	359,505	5.9%	184,730	6.3%	174,77
10 to 14 years	390,637	6.5%	198,160	6.8%	192,47
15 to 19 years	381,318	6.3%	192,824	6.6%	188,49
20 to 24 years	372,016	6.2%	190,492	6.5%	181,52
25 to 29 years	405,838	6.7%	204,453	7.0%	201,38
30 to 34 years	414,737	6.9%	204,600	7.0%	210,13
35 to 39 years	415,367	6.9%	202,827	6.9%	212,54
40 to 44 years	371,557	6.1%	180,535	6.2%	191,02
45 to 49 years	384,732	6.4%	185,153	6.3%	199,57
50 to 54 years	411,222	6.8%	197,917	6.8%	213,30
55 to 59 years	413,230	6.8%	196,631	6.7%	216,59
60 to 64 years	407,288	6.7%	192,059	6.6%	215,22
65 to 69 years	317,396	5.2%	144,276	4.9%	173,12
70 to 74 years	247,137	4.1%	111,525	3.8%	135,61

If the table is transposed, **&tp=true** is added to the URL, allowing it to link to the transposed table

https://data.census.gov/cedsci/table?t=Populations%20and%20People&g=0400000US24 &tid=ACSST1Y2019.S0101&moe=false&**tp=true**&hidePreview=true

	۹	Search				
// Search / Tables / S0101						
AGE AND SEX Survey/Program: American	Community Survey TableID: S0101	Product: 2019: ACS 1-Year Estimat	es Subject Tables 👻			
Data Notes Selection	ns 1 Geography Years 1 Topic	123 💋 V Survey Code Hide Filte	Transpose Table Margin of	⊂ Error Restore Layout Do	wnload Print More Data N	fore
	Total population					
		AGE				Colum
Label 🗸			Under 5 years	5 to 9 years	10 to 14 years	15 to 19 years
✓ Maryland						Cell/0
✓ Total						Colum
Estimate	6,045,680		358,346	359,505	390,637	in No
✓ Percent						.es
Estimate	(X)		5.9%	5.9%	6.5%	
✓ Male						
Estimate	2,928,013		182,785	184,730	198,160	
✓ Percent Male						
Estimate	(X)		6.2%	6.3%	6.8%	
✓ Female						
Estimate	3,117,667		175,561	174,775	192,477	
✓ Percent Female						
Estimate	(X)		5.6%	5.6%	6.2%	

3.2 Use Case - Population Total in Maryland – All Results and Map Results

3.2.1 Linking to All Search Results

The following URL represents a search for Population Total **t=Population%20Total** in Maryland **g=0400000US24** in which all results are shown **/all**?

http://data.census.gov/cedsci/all?g=0400000US24&t=Population%20Total

Note that the spaces in Populations and People are appropriately encoded [%20]

ensus	Q Search	
ALL TABLES MAPS PAGE	ĒS	
		EXPLORE DATA
EXPLORE DATA 6,045,680 Total Popu Source 2019 Population Estimates nul https://www.census.gov/programs-su	ulation in Maryland มี มาveys/popest.html	Maryland Profile Maryland has a total area of 9,707 square miles, including 2,695.6 square miles of water, making it the 42nd-
ables	SEIDENT DODIII ATION: ADDII 1 2010 TO 1111 1 2010 - EOD EIII I SETIMATES	
ANNUAL ESTIMATES OF THE RE	STOLED FOR DEALED AND ARREST AND A DEALED AND A	
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censu	us.gov/programs-surveys/popest.html	ACS & CPS 2004-2018
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censu Survey/Program: Population Estimates Years: 2019 Table: PEPANNRES	us.gov/programs-surveys/popest.html	ACS & CPS 2004-2018 Public Use Microdata Create record level custom tables
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censu Survey/Program: Population Estimates Years: 2019 Table: PEPANNRES ACS DEMOGRAPHIC AND HOUSI	superior for for for for for for for for for f	ACS & CPS 2004-2018 Public Use Microdata Create record level custom tables
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censu Survey/Program: Population Estimates Years: 2019 Table: PEPANNRES ACS DEMOGRAPHIC AND HOUSI Survey/Program: American Community Years: 2019,2018,2017,2016,2015,2014	ING ESTIMATES V Survey V 2013/2012/2012/2013/2012/2013/2012/2013/2012/2013/2012/2011/2010 V Survey V 2013/2012/2011/2010 V Table: DP05	ACS & CPS 2004-2018 Public Use Microdata Create record level custom tables
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censt Survey/Program: Population Estimates Years: 2019 Table: PEPANNRES ACS DEMOGRAPHIC AND HOUSI Survey/Program: American Community Years: 2019,2018,2017,2016,2015,2017 TOTAL POPULATION	ING ESTIMATES ty Survey 4,2013,2012,2011,2010 Table: DP05	ACS & CPB 2004-2018 Public Use Microdata Create record level custom tables
ANNUAL ESTIMATES OF THE RE DETAIL, VISIT https://www.censu Surveyi/Program: Population Estimates Years: 2019 Table: PEPANNRES ACS DEMOGRAPHIC AND HOUSI Surveyi/Program: American Community Years: 2019,2018,2017,2016,2015,2014 TOTAL POPULATION Surveyi/Program: American Community Years: 2019,2018,2017,2016,2015,2014	ING ESTIMATES VS Survey 4.2013.2012.2011.2010 Table: B01003	ACS & CPS 2004-2018 Public Use Microdata Create record level custom tables

3.2.2 Linking Directly to Map Results

By changing **/all?** in the above results to **/map?** the same URL will now link directly to the Map Results for the original query of Total Population.

https://data.census.gov/cedsci/**map?**t=Population%20Total&g=0400000US24&vintage=2 018&layer=VT 2018 040 00 PP D1&mode=selection

When the Maps page loads, it will show the selection map for the geography included in search, in this case Maryland. The URL will also contain additional parameters, relevant to the display of the top table result:

- 1. **vintage=2019** Indicates that 2019 map boundaries are in use
- 2. layer=VT_2019_040_00_PP_D1 Indicates that the state layer (040) is in use
- 3. palette=Teal
- 4. break=5
- 5. classification=Natural%20Breaks
- 6. mode=selection



Clicking the first table result loads that result on to the preview map, changing the map preview mode from selection to thematic.

https://data.census.gov/cedsci/map?t=Population%20Total&g=0400000US24&tid=PEPP OP2019.PEPANNRES&vintage=2019&layer=VT 2019 040 00 PP D1&cid=POP&mode=th ematic



Map manipulations made on the Map Results page are reflected in the URL. The below example, several counties have been selected.

https://data.census.gov/cedsci/map?t=Population%20Total**&g=0400000US24 050000 US24003,24005,24013,24021,24027,24031,24033,24043**&tid=PEPPOP2019.PEPANN RES&hidePreview=false&vintage=2019&layer=VT 2019 050 00 PY D1&cid=POP&mode=t hematic



3.2.3 Linking to Customized Map Results

Clicking CUSTOMIZE MAP allows a user to further customize a map view. These customizations are captured in the URL.



In the above example, the following customizations have been made via map customization controls:

- 1. Customization Controls Displayed &mode=customize
- 2. Delaware, Virginia, and West Virginia selected via the map g=0400000US24,51,54,10,11
- 3. Number of data/classes ranges adjusted to 4 &break=4
- 4. Palette color set to Orange **&palette=Oranges**

https://data.census.gov/cedsci/map?g=0400000US24,51,54,10,11&t=Population%20To tal&hidePreview=false&table=DP05&tid=ACSDP1Y2018.DP05&vintage=2018&layer=state &cid=DP05_0001PE&lastDisplayedRow=15&mode=customize&break=4&palette=Oran ges Navigating to this new URL opens the map preview, which now includes the changes made during customization



3.3 Use Case – Linking Directly to a Table

3.3.1 Building a Direct Table Link

Direct links to tables may be created using the URL parameters available on data.census.gov. The example below shows a direct link to the 2018 version of Table DP02: Selected Social Characteristics in the United States for all counties in Maryland:

https://data.census.gov/cedsci/table?g=0400000US24.050000&tid=ACSDP1Y2018.DP02& hidePreview=true

The parameters utilized are:

- 1. g=0400000US24.050000 Indicates that the table should be filtered to show data for all counties (050000) in Maryland (0400000US24)
- 2. &tid=ACSDP1Y2018.DP02 Indicates that the table to be shown is DP02 for the 2018 ACS 1-Year Estimates

Census Burter	Q Search					
// Search / Tables / DP02						
SELECTED SOCIAL CHARACTERISTICS IN TH Survey/Program: American Community Survey TableID: D	HE UNITED STATES DP02 Product: 2018: ACS	1-Year Estimates Data Profiles 👻				
Data Notes Selections 1 Geography	ppic Survey Code	₩ ₩ Hide Filter Transpose Table	₩ Margin of Error Restore La	yout Download Print More	Data Map	
		Charles County, Maryland				Frede
Label		Estimate	Margin of Error	Percent	Percent Margin of Error	Olum
✓ HOUSEHOLDS BY TYPE						su
✓ Total households		56,947	±1,438	56,947	(X)	Cell/
✓ Family households (families)		41,483	±1,940	72.8%	±2.9	Colun
With own children of the householder under 18	years	17,911	±1,833	31.5%	±3.1	No
✓ Married-couple family		28,570	±1,893	50.2%	±3.1	tes
With own children of the householder under 18	years	10,260	±1,481	18.0%	±2.5	
✓ Male householder, no wife present, family		2,685	±897	4.7%	±1.6	
With own children of the householder under 18	years	2,163	±793	3.8%	±1.4	
✓ Female householder, no husband present, family		10,228	±1,549	18.0%	±2.7	
With own children of the householder under 18	years	5,488	±1,283	9.6%	±2.3	
 Nonfamily households 		15,464	±1,696	27.2%	±2.9	
 Householder living alone 		12,457	±1,673	21.9%	±2.9	
65 years and over		3,262	±823	5.7%	±1.4	
Households with one or more people under 18 year	rs	20,397	±1,933	35.8%	±3.2	
Households with one or more people 65 years and	over	13,502	±876	23.7%	±1.5	

3.3.2 Updating a Direct Table Link

Using URL parameters, saved table links can be easily updated. In the above example a direct link to table the 2018 version DP02 for all counties in Maryland was created. By making a change to the tid= parameter, this link can be updated to show the 2019 version of the table:

https://data.census.gov/cedsci/table?g=0400000US24.050000&tid=ACSDP1Y**2019**.DP02 &hidePreview=true

DATA.CENSUS.GOV DEEP LINKING GUIDE

Census Enterprise Dissemination Services and Consumer Innovation (CEDSCI)

Cunited States Exercise Search					
// Search / Tables / DP02					
SELECTED SOCIAL CHARACTERISTICS IN THE UNITED STATE Survey/Program: American Community Survey TableID: DP02 Product: 2019.	S CS 1-Year Estimates Data Profiles 👻				
Data Notes Selections 1 Geography Years Topic Survey Code	₩ ₩ Hide Filter Transpose Tabl	He Margin of Error Restore La	yout Download Print More	P Data Map	
	Allegany County, Maryland				Anne
Label	Estimate	Margin of Error	Percent	Percent Margin of Error	Colum
✓ HOUSEHOLDS BY TYPE					ŝ
✓ Total households	26,549	±1,492	26,549	(X)	Cell/
✓ Married-couple family	10,444	±1,372	39.3%	±4.9	Colur
With own children of the householder under 18 years	2,710	±841	10.2%	±3.1	nn No
 Cohabiting couple household 	2,564	±876	9.7%	±3.2	
With own children of the householder under 18 years	812	±426	3.1%	±1.6	
✓ Male householder, no spouse/partner present	5,695	±1,019	21.5%	±3.3	
With own children of the householder under 18 years	314	±233	1.2%	±0.9	
✓ Householder living alone	4,078	±952	15.4%	±3.3	
65 years and over	1,494	±474	5.6%	±1.8	
✓ Female householder, no spouse/partner present	7,846	±1,015	29.6%	±3.9	
With own children of the householder under 18 years	1,042	±485	3.9%	±1.8	

3.4 Use Case – Profile Page Deep Linking

3.4.1 Creating Profile Page Deep Links

In addition to tables, maps, and all search results, users may also deep link to profile pages. Currently, profile pages are only available for geographies. The below link shows a direct link to the Maryland Profile Page

https://data.census.gov/cedsci/profile?g=0400000US24

	Maryland			
Maryland	State in United States			
eople and Population	/		Maryland has a total are square miles of water, n	a of 9,707 square miles, including 2,695.6 naking it the 42nd-largest state by area.
ace and Ethnicity	<i></i>	The second se	Maryland is bordered by Delaware, and District o	r West Virginia, Pennsylvania, Virginia, f Columbia.
amilies and Living Arrangements	a service and a service and a service a servic	DE		
Health	WV			
ducation	}~			
Business and Economy	3	VA		
mployment	hand	and the second sec		
ousing	000	\sim	0	
ncome and Poverty	L.	10	e la	ģ
	POPULATION	MEDIAN HOUSEHOLD INCOME	POVERTY RATE	BACHELOR'S DEGREE OR HIGHER
	0,010,000	\$23,700	2.070	.3.976

3.4.2 Creating Deep Links to Sections on a Profile Page

Deep link URLs may also be used to directly access a given section of a profile page. These links are generated using the **Share/Export** button for that section. The below link was created using the Share/Export button for the Family and Living Arrangements section of the Maryland Profile Page

https://data.census.gov/cedsci/profilemapwidget?defaultVintage=2017&geoID=0400000 US24&geoLv=040&metricFormat=number&metricTopic=Households&heightUS=525px



4 Examples of Linking to Search Results in Basic Search

The following sections provide examples for how deep links to various search results are constructed. Note that over time search results for a given set of search terms may change, as the search algorithm continues to be refined.

• Display Search Results for "Maryland Population"

https://data.census.gov/cedsci/all?q=Maryland%20Population

• Display Search Results for Maryland and for NAICS code 3111, 3115

https://data.census.gov/cedsci/all?g=0400000US24&n=3111%3A3115

• Display Search Results for United States and for 6-digit NAICS Codes

https://data.census.gov/cedsci/all?n=N0600.00

• Display search results for Population in all counties of Maryland

https://data.census.gov/cedsci/all?q=population&g=0400000US24.050000

5 Examples of Linking to Table results from Basic Search

The following sections provide examples of deep links to specific tables using the URL parameters discussed in this document, including table specific parameters.

• Display Full View of Table DP05 for Maryland Demographic and Housing Estimates

https://data.census.gov/cedsci/table?q=marylandpopulation&hidePreview=true&table=D P05&tid=ACSDP1Y2019.DP05&g=0400000US24

• Display Full View of Table NS1700NONEMP for Maryland and for NAICS Code 3111, 3115

https://data.census.gov/cedsci/table?table=NS1700NONEMP&tid=NONEMP2017.NS1700 NONEMP&g=0400000US24&n=3111%3A3115&hidePreview=true

• Display List of Tables and Preview of First Table Related to 6-digit NAICS Codes in the United States

https://data.census.gov/cedsci/table?n=N0600.00

• Display List of Tables and Preview of First Table Related to Population of All Counties of Maryland

https://data.census.gov/cedsci/table?g=0400000US24.050000

6 Examples of Linking to Map results from Basic Search

The following sections provide examples of deep links to specific maps using the URL parameters discussed in this document, including map specific parameters.

• Display Map of Housing Occupancy in Maryland using 2018 ACS 1-Year Estimates

https://data.census.gov/cedsci/map?q=Housing%20in%20Maryland&tid=ACSDP1Y2018. DP04&hidePreview=false&vintage=2018&layer=VT_2018_040_00_PP_D1&cid=DP04_0001 E&palette=Teal&break=5&classification=Natural%20Breaks&mode=thematic

• Display Map of Population of All Counties of Maryland using 2019 ACS 1-Year Data

https://data.census.gov/cedsci/map?q=Population&g=0400000US24.050000&tid=ACSDP 1Y2019.DP05&hidePreview=false&vintage=2019&layer=VT 2019 050 00 PY D1&cid=DP 05 0001E&palette=Teal&break=5&classification=Natural%20Breaks&mode=customize

• Display List of Maps and Preview of First Map Related to Foreign Born Population in Washington State

https://data.census.gov/cedsci/map?q=foreign%20born%20population%20WA&g=04000 00US53&tid=ACSDP1Y2019.DP02&vintage=2018&layer=VT 2018 040 00 PP D1&mode= selection

• Display List of Maps and Preview of Selection Map Related to Population of All Counties of Maryland

https://data.census.gov/cedsci/map?g=0400000US24,24.050000

7 Examples of Linking to a Geography Profile

The following section provides example of linking to Geographic Profile pages using URL parameters discussed in this guide.

• Display Maryland Profile

https://data.census.gov/cedsci/profile?q=Maryland&g=0400000US24

• Display Fairfax County, VA Profile

https://data.census.gov/cedsci/profile?g=0500000US51059

Building Deep Links with Advanced Search

This section covers the construction of deep links for search queries utilizing the Advanced Search functionality of data.census.gov.

APPENDIX A The following examples show how a deep link URL may be built using Advanced Search.

1. From the Landing Page select Advanced Search.



The URL reads https://data.census.gov/cedsci/advanced.



2. In the **BROWSE FILTERS** panel, select **Topics > Employment**

3. In the **EMPLOYMENT** panel, select **Industry**. The URL reads https://data.census.gov/cedsci/advanced?t=Industry

Search / Advanced Search	Search	
Varrow search with IND A FILTER Q e.g. 336111 - Automot	filters pile Manufacturing	EMPLOYMENT
Topics Geography Years Surveys Codes	Business and Economy Education Employment Families and Living Arrangements Government Health Housing Income and Poverty Populations and People Race and Ethnicity	 Employment Class of Worker Commuting Employment and Labor Force Status Industry Occupation Work Experience Work from Home

- 4. In the **BROWSE FILTERS** panel, select **Geography > State**.
- 5. In the STATE panel, select California. The URL reads

https://data.census.gov/cedsci/advanced?t=Industry&g=0400000US06

\leftrightarrow \rightarrow C \triangle \triangleq data.cen	sus.gov/cedsci/advanced?t=Industry&g=0	40000	OUS	06	
	Q Search				
// Search / Advanced Search Advanced Table ID (e.g., DP05)	Search			-	
Narrow search with FIND A FILTER Q. e.g. 336111 - Automot	filters				
BROWSE FILTERS	GEOGRAPHY			STATE	۹
Topics	Show Summary Levels			Show Geographic Components	
Geography	Nation	*		Within Other Geographies	✓ ^
Years	Region			All States in United States	
Surveys	Division			Alabama	
Codes	State			Alaska	
	County			American Samoa	
	Tract			American Sanida	
	Block Group		Ш	Arizona	
	Block			Arkansas	
	Zip Code Tabulation Area (Five- Digit)		~	California	
	Elementary School District			Colorado	
	Secondary School District			Commonwealth of the Northern Mariana Islands	
	in the local state of the	•			-
Selected Filters: Industry X	California Geography				

6. In the **STATE** panel select **Florida**. The URL reads https://data.census.gov/cedsci/advanced?t=Industry&g=0400000US06,12

Bureau	Search				
// Search / Advanced Search					
Advanced	Search				
	ocuron				
				-	
Narrow search with	filters				
FIND A FILTER					
Q e.g. 336111 - Automob	ile Manufacturing				
BROWSE FILTERS	GEOGRAPHY			STATE	Q
	Show Summary Levels			Show Geographic Components	
Topics				Arizono	
Geography	Nation	Î		Anzona	
Years	Region		П	Arkansas	
Surveys	Division		✓	California	
Codes	State			Colorado	
	County		П	Commonwealth of the Northern Mariana Islands	
	Tract			Connectiout	
	Block Group			Connecticut	
	Block		П	Delaware	
	Zip Code Tabulation Area (Five- Digit)			District of Columbia	
	Elementary School District		~	Florida	
	Secondary School District			Georgia	
		-	_		

7. Click the **Search** button.

8. The search results appear in page **All** and the URL reads https://data.census.gov/cedsci/all?t=Industry&g=0400000US06,12

