2013-2017 American Community Survey (ACS) 5-Year Estimates

Pre-Embargo Webinar

November 27, 2018

Access the Audio

Toll free number: 1-888-790-1887
Participant passcode: ACS 5 YEAR
www.census.gov/newsroom/press-kits/2018/acs-5year.html

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Speakers

Host	**Moniqua Roberts-Gray** Public Affairs Specialist Public Information Office
Presenter	**Camille Ryan** Survey Statistician Social, Economic, and Housing Statistics Division

Webinar Outline

- Upcoming ACS Data Releases
- ACS Basics
- 5-Year ACS Geography and Products
- ACS Documentation
- Q&A
- Accessing Block Group Data

Upcoming ACS Data Releases

ACS Data Release

MEDIA EMBARGO: Tuesday, December 4, 2018

- Embargo at 10 a.m. (EST), Includes 2013-2017 ACS 5-Year Estimates:
  - 5-Year Data Products (including 5-Year Comparison Profiles)

PUBLIC RELEASE: Thursday, December 6, 2018

- Release at 12:01 a.m. (EST), Includes 2013-2017 ACS 5-Year Estimates:
  - 5-Year Data Products (including 5-Year Comparison Profiles)
  - Narrative Profile
  - API, QuickFacts

Thursday, December 6th

- **News Release:**
  - Highlights on income, poverty and computer and internet use
  - America Counts Articles on:
  - Why We Ask?
  - Income Poverty
  - Computer and Internet Use
- **News Graphics:**
  - 16 graphics available
  - Interactive visualization tool showing data at the county level

Upcoming ACS Releases

- **January 17, 2019**
  - 2013-2017 ACS 5-Year Public Use Microdata Sample (PUMS)
  - 2013-2017 ACS 5-Year Variance Replicate Estimate Tables

ACS Basics

United States Census Bureau
U.S. Department of Commerce
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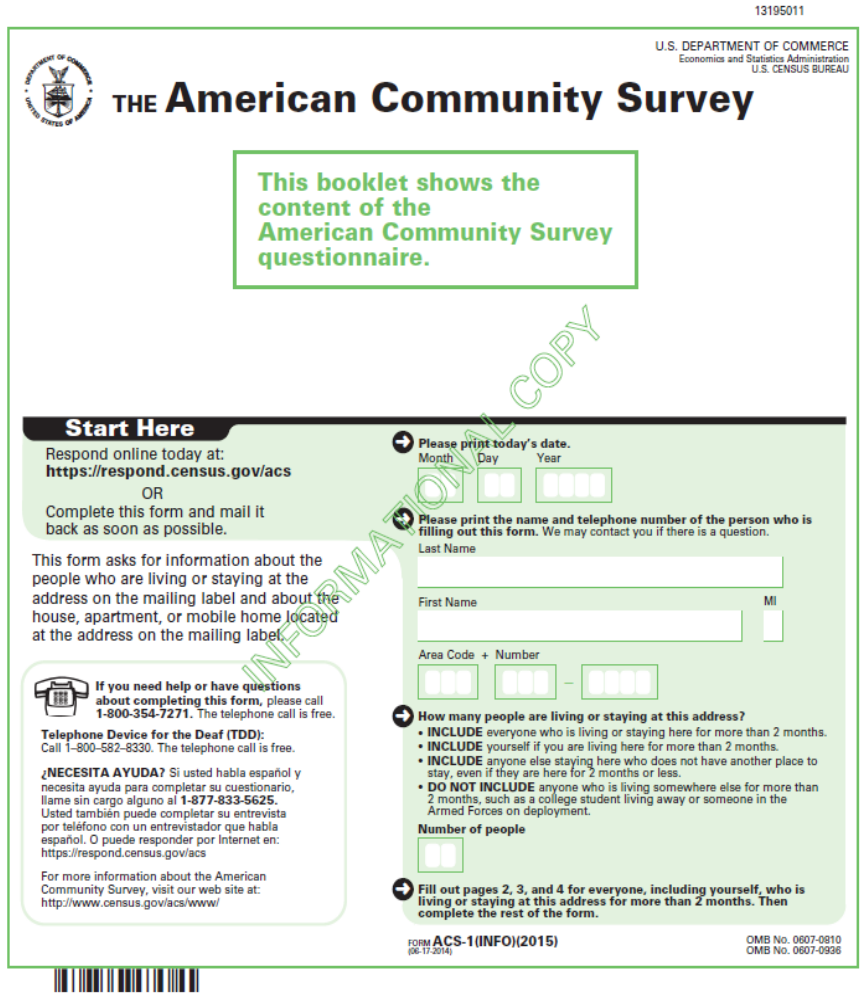
census.gov

The American Community Survey: The Foundation

The American Community Survey is on the leading edge of survey design, continuous improvement, and data quality

- The nation's most current, reliable, and accessible data source for local statistics on critical planning topics such as age, children, veterans, commuting, education, income, and employment
- Surveys **3.5 million** addresses and informs over **$675 billion** of Federal government spending each year
- Covers **35+ topics**, supports over **300** evidence-based Federal government uses, and produces **11 billion** estimates each year
- Three key annual data releases:
  - 1-year Estimates (for large populations)
  - 1-year Supplemental Estimates (for small populations)
  - 5-year Estimates (for very small populations)



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U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU

THE American Community Survey

This booklet shows the content of the American Community Survey questionnaire.

INFORMATIONAL COPY

Start Here

Respond online today at:
https://respond.census.gov/acs
OR
Complete this form and mail it back as soon as possible.

This form asks for information about the people who are living or staying at the address on the mailing label and about the house, apartment, or mobile home located at the address on the mailing label.

If you need help or have questions about completing this form, please call 1-800-354-7271. The telephone call is free.

Telephone Device for the Deaf (TDD):
Call 1–800–582–8330. The telephone call is free.

¿NECESITA AYUDA? Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-877-833-5625. Usted también puede completar su entrevista por teléfono con un entrevistador que habla español. O puede responder por Internet en: https://respond.census.gov/acs

For more information about the American Community Survey, visit our web site at: http://www.census.gov/acs/www/

Please print today's date.
Month Day Year

Please print the name and telephone number of the person who is filling out this form. We may contact you if there is a question.
Last Name
First Name MI
Area Code + Number

How many people are living or staying at this address?
- INCLUDE everyone who is living or staying here for more than 2 months.
- INCLUDE yourself if you are living here for more than 2 months.
- INCLUDE anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.
- DO NOT INCLUDE anyone who is living somewhere else for more than 2 months, such as a college student living away or someone in the Armed Forces on deployment.

Number of people

Fill out pages 2, 3, and 4 for everyone, including yourself, who is living or staying at this address for more than 2 months. Then complete the rest of the form.

FORM ACS-1(INFO)(2015) (06-17-2014)
OMB No. 0607-0810
OMB No. 0607-0936

United States Census Bureau

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ACS Content

POPULATION		HOUSING
SOCIAL Ancestry Citizenship Disability Educational Attainment Fertility Grandparents Language Marital Status Migration School Enrollment Veterans	**DEMOGRAPHIC** Age Hispanic Origin Race Relationship Sex **ECONOMIC** Class of Worker Commuting Employment Status Food Stamps (SNAP) Health Insurance Hours/Week, Weeks/Year Income Industry & Occupation	Computer & Internet Use Costs (Mortgage, Rent, Taxes, Insurance) Heating Fuel Home Value Occupancy Plumbing/Kitchen Facilities Structure Tenure (Own/Rent) Utilities Vehicles Year Built/ Year Moved In

5-Year Estimates

- Describe the characteristics over a specific period of time, not a single point in time
- Data are pooled across 60 months, weighted to produce estimates, and controlled for age, sex, race, and Hispanic origin
    - 5-year estimates are NOT an average of 1-year estimates
- Estimates are based on geographic boundaries as of January 1 of the last year in the 5-year period
- Dollar-value estimates are inflation adjusted to the most recent year for the period

Availability of 2017 ACS Data Products

Estimated Population of Geographic Area	1-Year Estimates	1-Year Supplemental Estimates	5-Year Estimates
65,000 or more	X	X	X
20,000 or more		X	X
Less than 20,000			X
Release Date	September 13, 2018	October 18, 2018	December 6, 2018

When to Use 5-Year Estimates?

- No 1-year estimate is available
- Margins of error for 1-year estimates are larger than desired
- Analyzing data for small population groups
- Comparing various geographies when one or more of them do not receive 1-year estimates

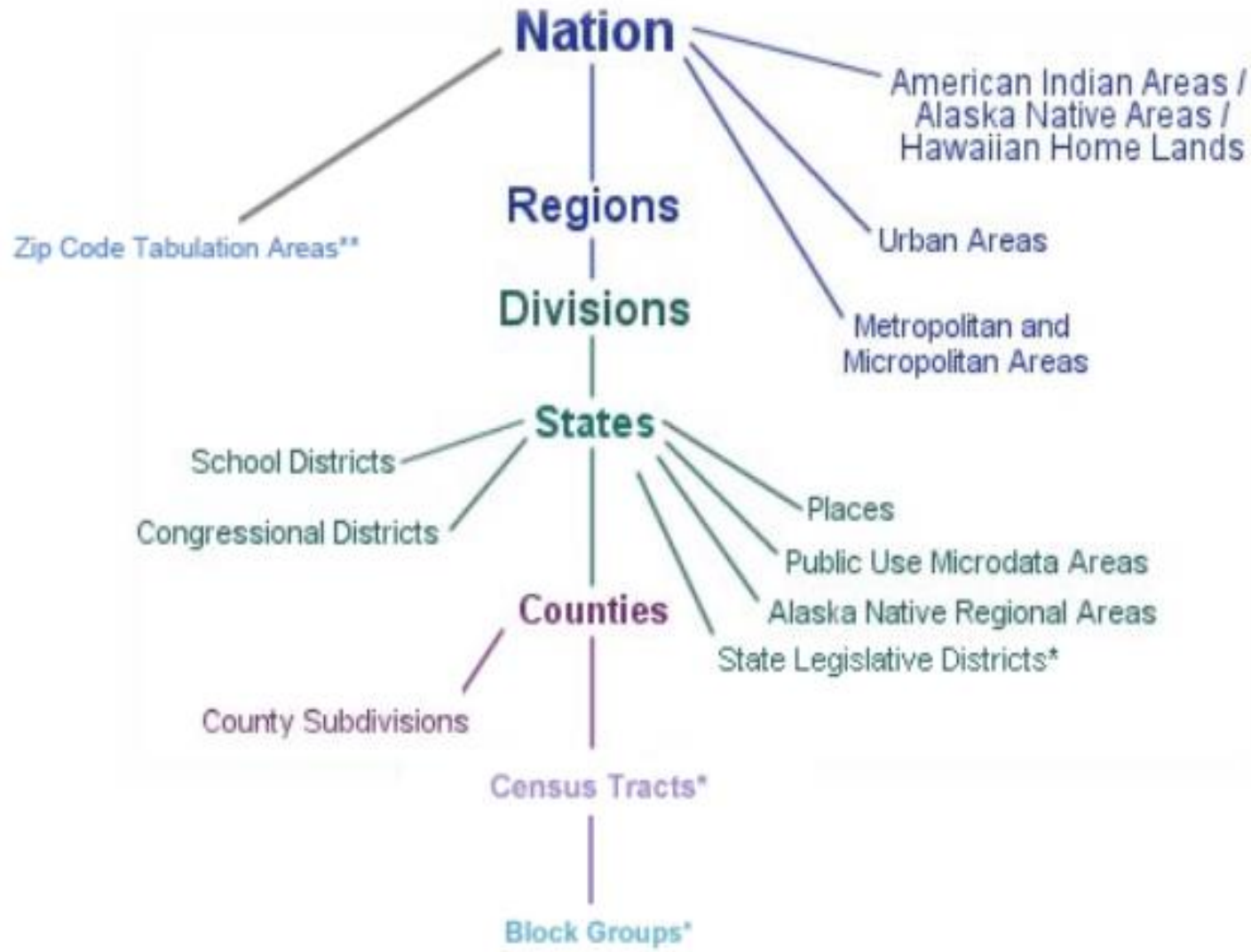
5-Year Comparisons

- Only compare non-overlapping time periods (e.g., 2013-2017 and 2008-2012)
- Only compare 1-yr estimates to 1-yr and 5-yr estimates to 5-yr
- Compare across geographies and subpopulations
- Compare percentages, means, medians and rates whenever possible

5-Year Geography and Products

5-Year Geography

- All geographic areas down to the tract and block group level
- Over 578,000 geographic areas
- 87 different geography summary levels available



5-Year Data Products

- Data Profiles (5)

  (Social, Economic, Housing, Demographic,

  Selected Social Characteristics - Puerto Rico)

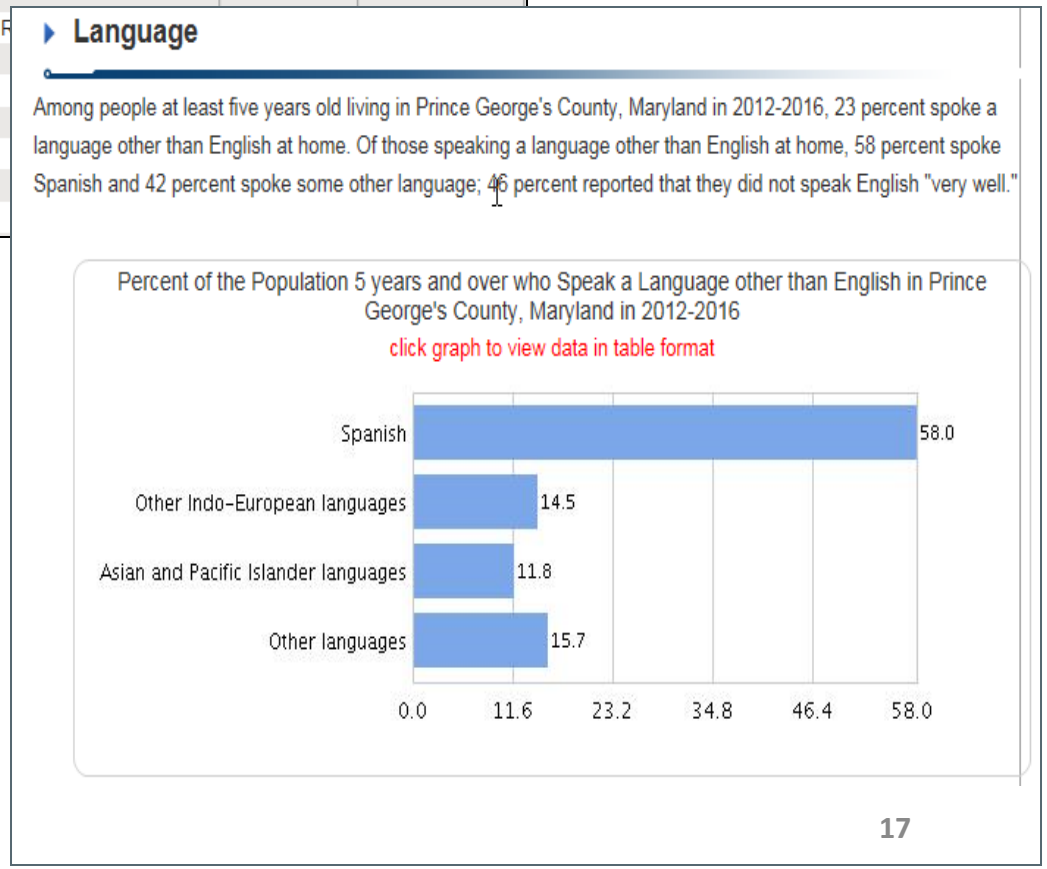
- Comparison Profiles (5)

  (2013-2017 and 2008-2012)

- Geographic Comparison Tables (92)
- Subject Tables (78)
- Detailed Tables (1,046)
- Narrative Profiles
- Data Tools

  API, QuickFacts, My Tribal Area, Census Business Builder

Subject	Occupied housing units	
	Estimate	Margin of Error
Occupied housing units	116,291,033	+/-141,632
UNITS IN STRUCTURE		
1, detached	62.8%	+/-0.1
1, attached	6.0%	+/-0.1
2 apartments	3.6%	+/-0.1
3 or 4 apartments	4.4%	+/-0.1
5 to 9 apartments	4.7%	+/-0.1
10 or more apartments	12.7%	+/-0.1
Mobile home or other type of housing	5.8%	+/-0.1
YEAR STRUCTUR		
2010 or later		
2000 to 2009		
1980 to 1999		
1960 to 1979		
1940 to 1959		
1939 or earlier		



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ACS New Tables

Computer and Internet Use

- **B28001 – B28008:** Computers and Internet Use by
  - Household Income
  - Age
  - Educational attainment
  - Labor force status
- **B28009A – B28009I:** Presence of a computer and type of internet subscription by race and Hispanic origin
- **B28010 – B28011**: Computer and Internet Use by broader categories
- **B99281 – B99283:** Allocation for Computer and internet use

Table ID	Line Number	Description
B28001		**TYPES OF COMPUTERS IN HOUSEHOLD**
B28001		*Universe: Households*
B28001	1	Total:
B28001	2	Has one or more types of computing devices:
B28001	3	Desktop or laptop
B28001	4	Desktop or laptop with no other type of computing device
B28001	5	Smartphone
B28001	6	Smartphone with no other type of computing device
B28001	7	Tablet or other portable wireless computer
B28001	8	Tablet or other portable wireless computer with no other type of computing device
B28001	9	Other computer
B28001	10	Other computer with no other type of computing device
B28001	11	No Computer

ACS New Tables (continued)

Group Quarters

- Two new Subject Tables have replaced S2601B
  - **S2602**: Characteristics of the Group Quarters Population by Group Quarters Type (3 Types)
  - **S2603:** Characteristics of the Group Quarters Population by Group Quarters Type (5 Types)
- 55 new Detailed Tables as source tables for the new Subject Tables

TableID	Line Number	Description
B26220		GROUP QUARTERS TYPE [5] BY RECEIPT OF FOOD STAMPS/SNAP IN THE PAST 12 MONTHS
B26220		Universe: Population in group quarters
B26220	1	Group quarters population:
B26220	2	Received Food Stamps/SNAP in the past 12 months
B26220	3	Did not receive Food Stamps/SNAP in the past 12 months
B26220	4	Institutionalized group quarters population:
B26220	5	Received Food Stamps/SNAP in the past 12 months
B26220	6	Did not receive Food Stamps/SNAP in the past 12 months
B26220	7	Adult correctional facilities:
B26220	8	Received Food Stamps/SNAP in the past 12 months
B26220	9	Did not receive Food Stamps/SNAP in the past 12 months
B26220	10	Nursing facilities/skilled nursing facilities:
B26220	11	Received Food Stamps/SNAP in the past 12 months
B26220	12	Did not receive Food Stamps/SNAP in the past 12 months
B26220	13	Juvenile facilities:
B26220	14	Received Food Stamps/SNAP in the past 12 months
B26220	15	Did not receive Food Stamps/SNAP in the past 12 months
B26220	16	Noninstitutionalized group quarters population:
B26220	17	Received Food Stamps/SNAP in the past 12 months
B26220	18	Did not receive Food Stamps/SNAP in the past 12 months
B26220	19	College/university student housing:
B26220	20	Received Food Stamps/SNAP in the past 12 months
B26220	21	Did not receive Food Stamps/SNAP in the past 12 months
B26220	22	Military quarters/military ships:
B26220	23	Received Food Stamps/SNAP in the past 12 months
B26220	24	Did not receive Food Stamps/SNAP in the past 12 months

ACS New Tables (continued)

Income and Earnings

- **B19122:** Number of Earners in Family

- **B20018:** Median Earnings in the Past 12 Months (in 2017 Inflation-Adjusted Dollars) for the Population 16 Years and Over Who Worked Full-Time, Year-Round with Earnings in the Past 12 Months

TableID	Line Number	Description
B19122		**NUMBER OF EARNERS IN FAMILY**
B19122		Universe: Families
B19122	1	Total:
B19122	2	No earners
B19122	3	1 earner
B19122	4	2 earners
B19122	5	3 or more earners

Health Insurance

- **C27021:** Health Insurance Coverage Status by Living Arrangement

ACS Noteworthy Data Product Modifications

Modifications made to tables on:

- Health Insurance
- Age and Sex
- Foreign-Born Population
- Income and Earnings
- Marital History
- Grandparents Living with Grandchildren

Changes include improvements to:

- Age categories
- Table universe
- Income detail
- Poverty thresholds
- Table completeness (counts and percentages)
- Level of detail to ensure confidentiality

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes/2017/5-year.html

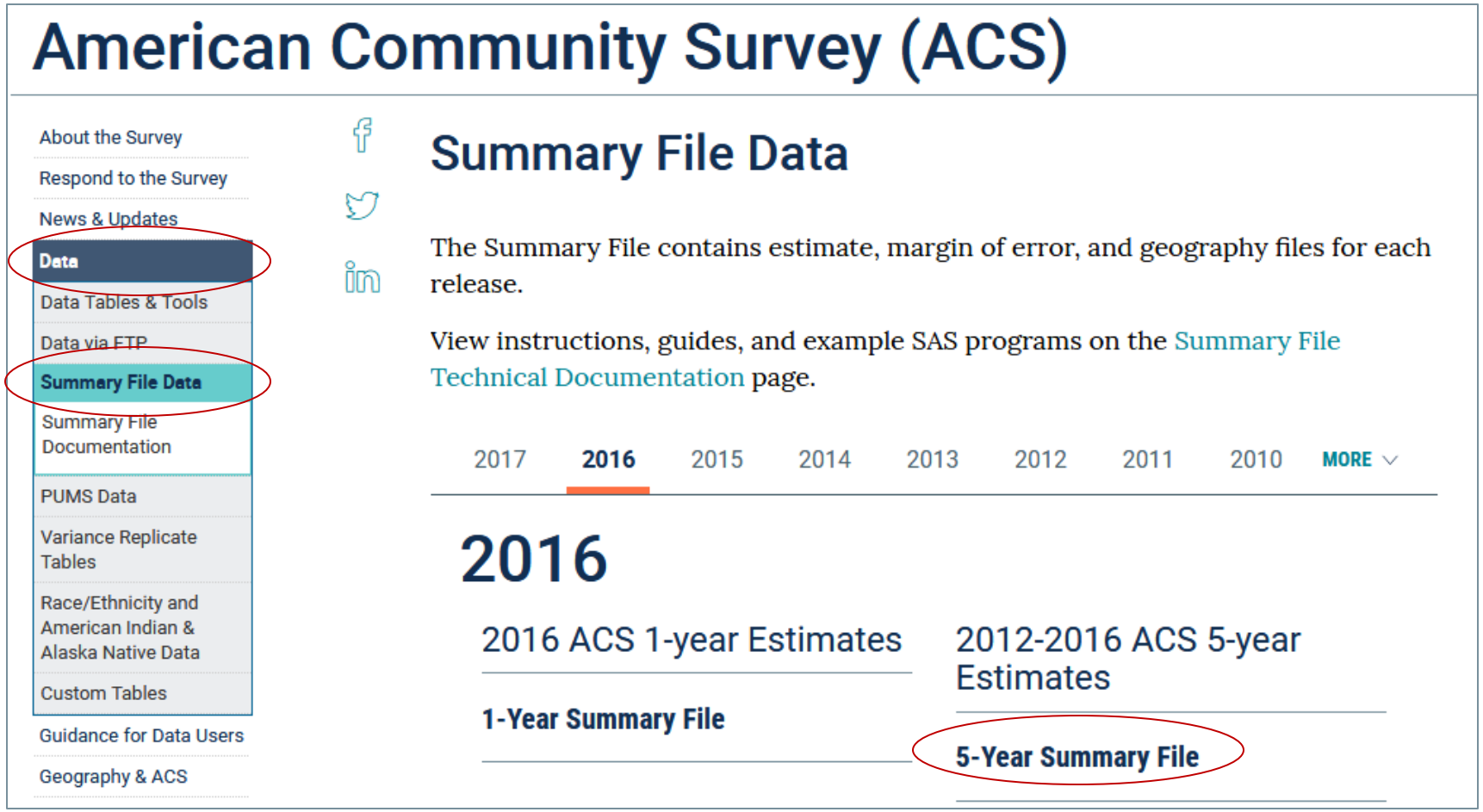
Other Noteworthy Data Improvements

Comparable data for non-overlapping periods

- Health insurance coverage
- Service-connected disability
- Marital history
- Year of naturalization
- School enrollment
- Educational attainment
- Relationship
- Disability
- Year built

American FactFinder (AFF)

5-Year Summary File



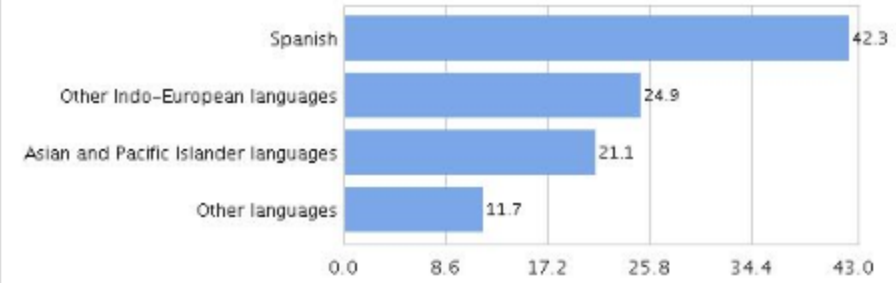
Narrative Profile

Language

Among people at least five years old living in Maryland in 2012-2016, 18 percent spoke a language other than English at home. Of those speaking a language other than English at home, 42 percent spoke Spanish and 58 percent spoke some other language; 37 percent reported that they did not speak English "very well."

Percent of the Population 5 years and over who Speak a Language other than English in Maryland in 2012-2016

click graph to view data in table format

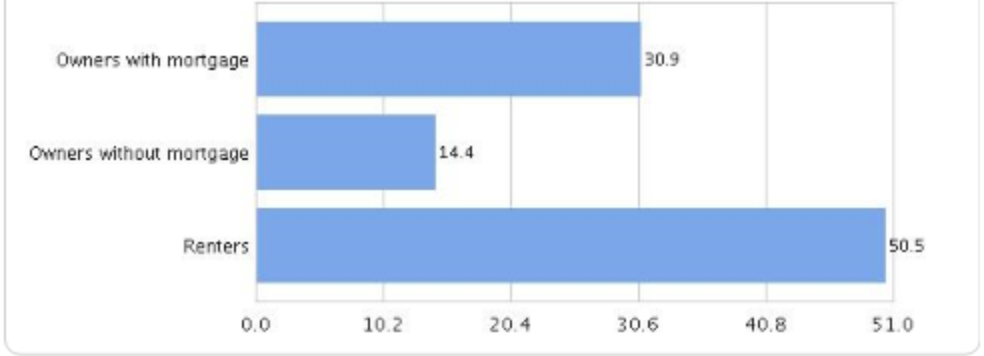


Housing Costs

The median monthly housing costs for mortgaged owners was $1,938, nonmortgaged owners $586, and renters $1,264. An estimated 31 percent of owners with mortgages, 14 percent of owners without mortgages, and 51 percent of renters in Maryland spent 30 percent or more of household income on housing.

Occupants with a Housing Cost Burden in Maryland in 2012-2016

click graph to view data in table format



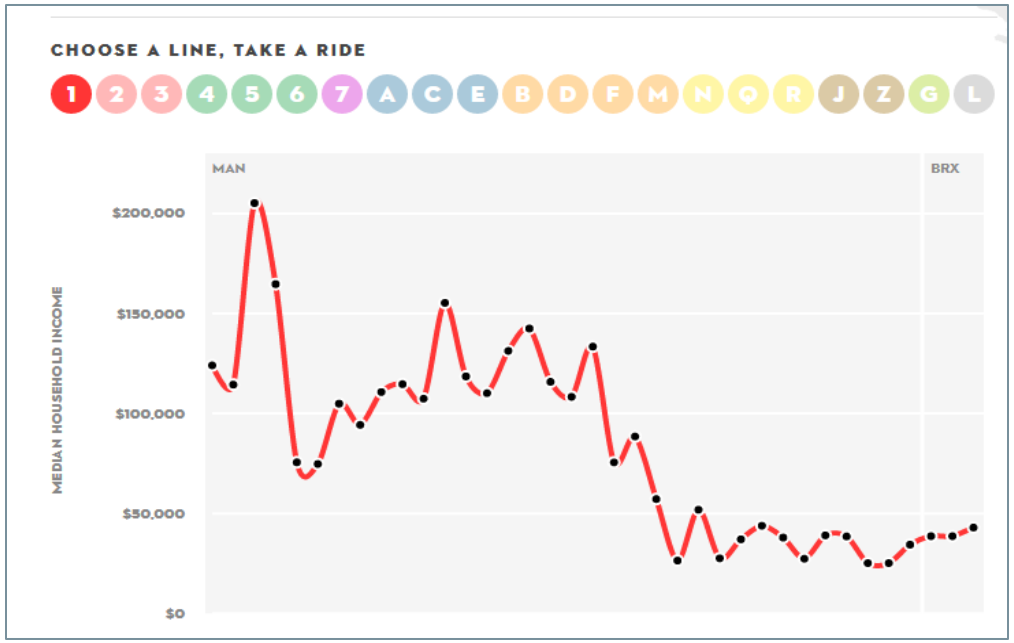
Employment Status and Type of Employer

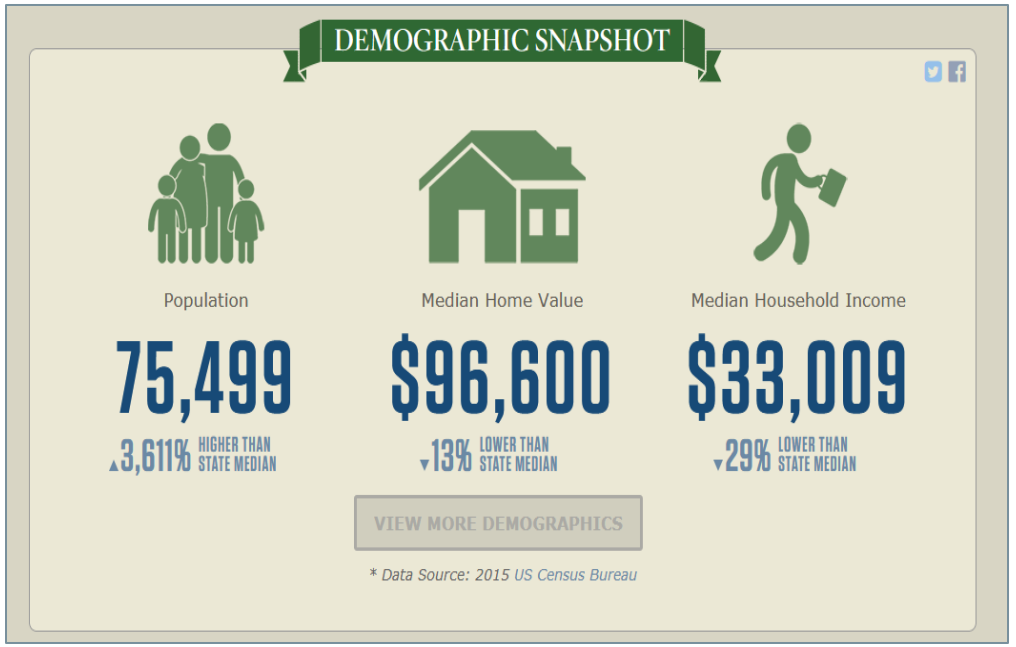
In Maryland, 63 percent of the population 16 and over were employed; 32 percent were not currently in the labor force.

An estimated 73 percent of the people employed were private wage and salary workers; 22 percent were federal, state, or local government workers; and 5 percent were self-employed in their own (not incorporated) business.

Class of worker	Number	Percent
Private wage and salary workers	2,199,093	73.2
Federal, state, or local government workers	660,843	22.0
Self-employed workers in own not incorporated business	142,210	4.7

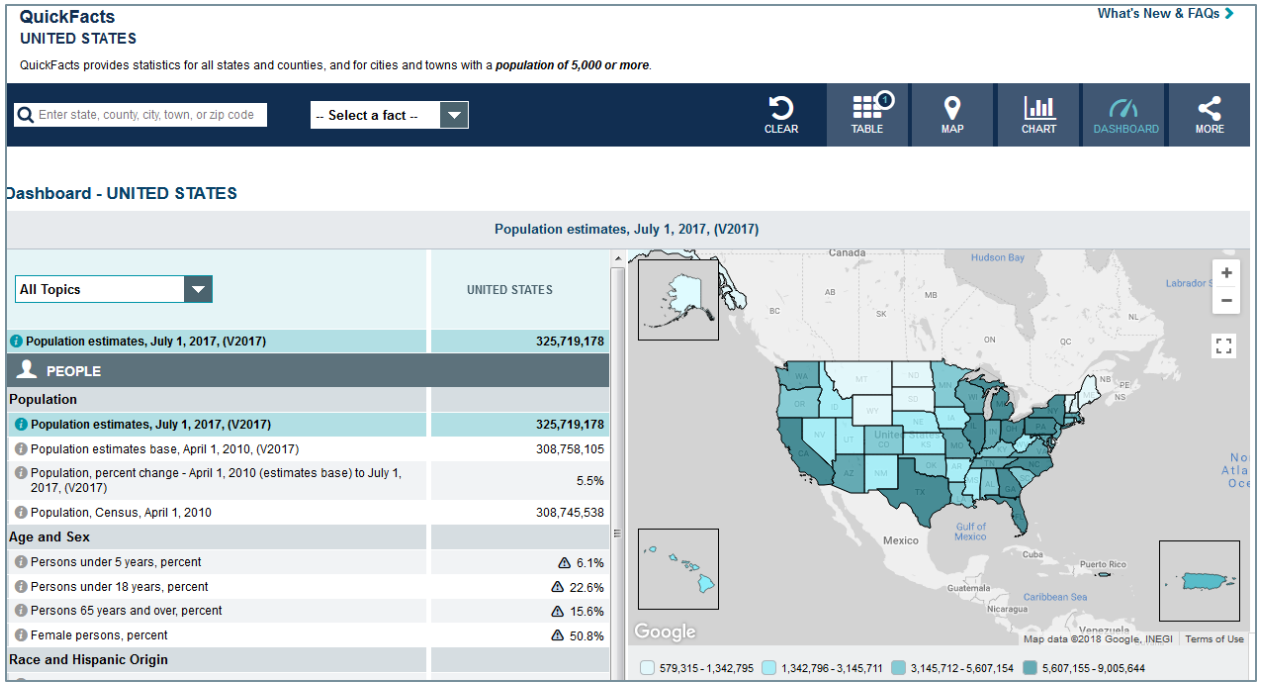
Application Programming Interface (API)

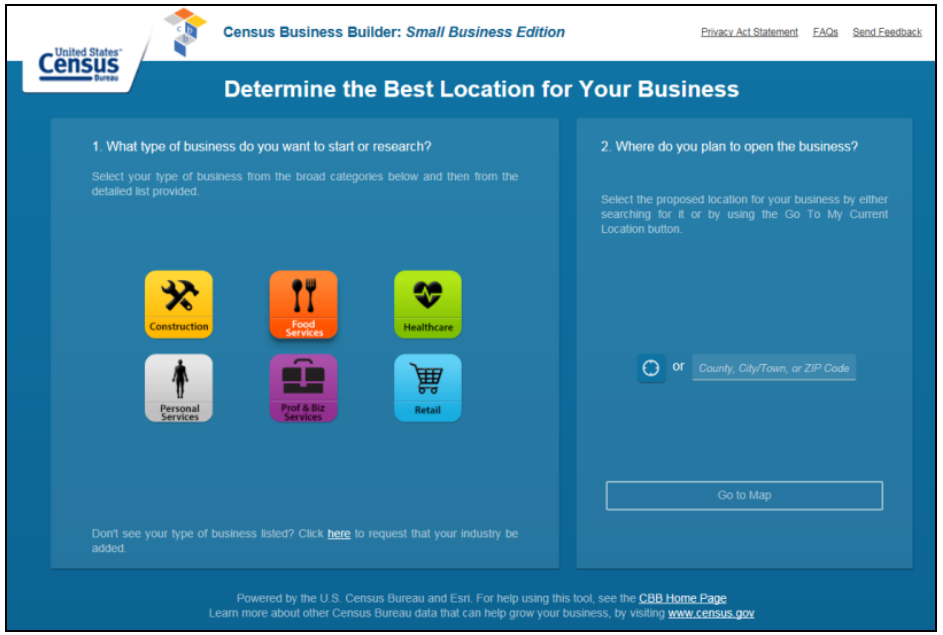




census.gov/developers
census.gov/programs-surveys/acs/guidance/training-presentations/acs-api.html

Data Tool Updates





United States Census Bureau

U.S. Department of Commerce
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census.gov

census.gov/data/data-tools.html

ACS Documentation

ACS Website

American Community Survey (ACS)

- About the Survey
- Respond to the Survey
- News & Updates
- Data
- Guidance for Data Users
- Geography & ACS
- Technical Documentation
- Methodology
- Library
- Operations and Administration
- Contact Us

Respond to the ACS
Learn how

The American Community Survey (ACS) helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.

How do I respond to the ACS?

Why do you ask each question?

Where can I get ACS data?

Data

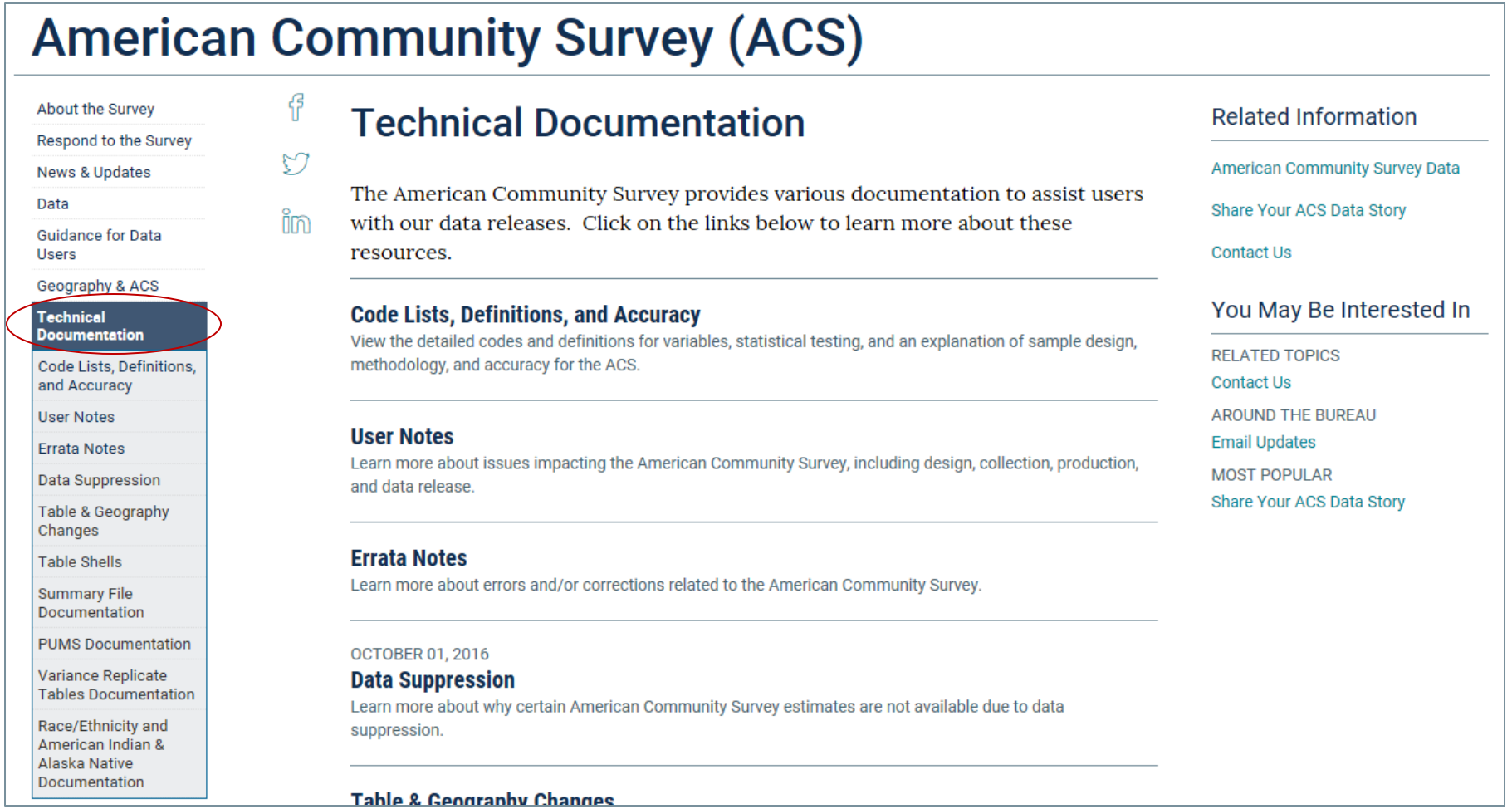
Data Release Information

United States Census Bureau

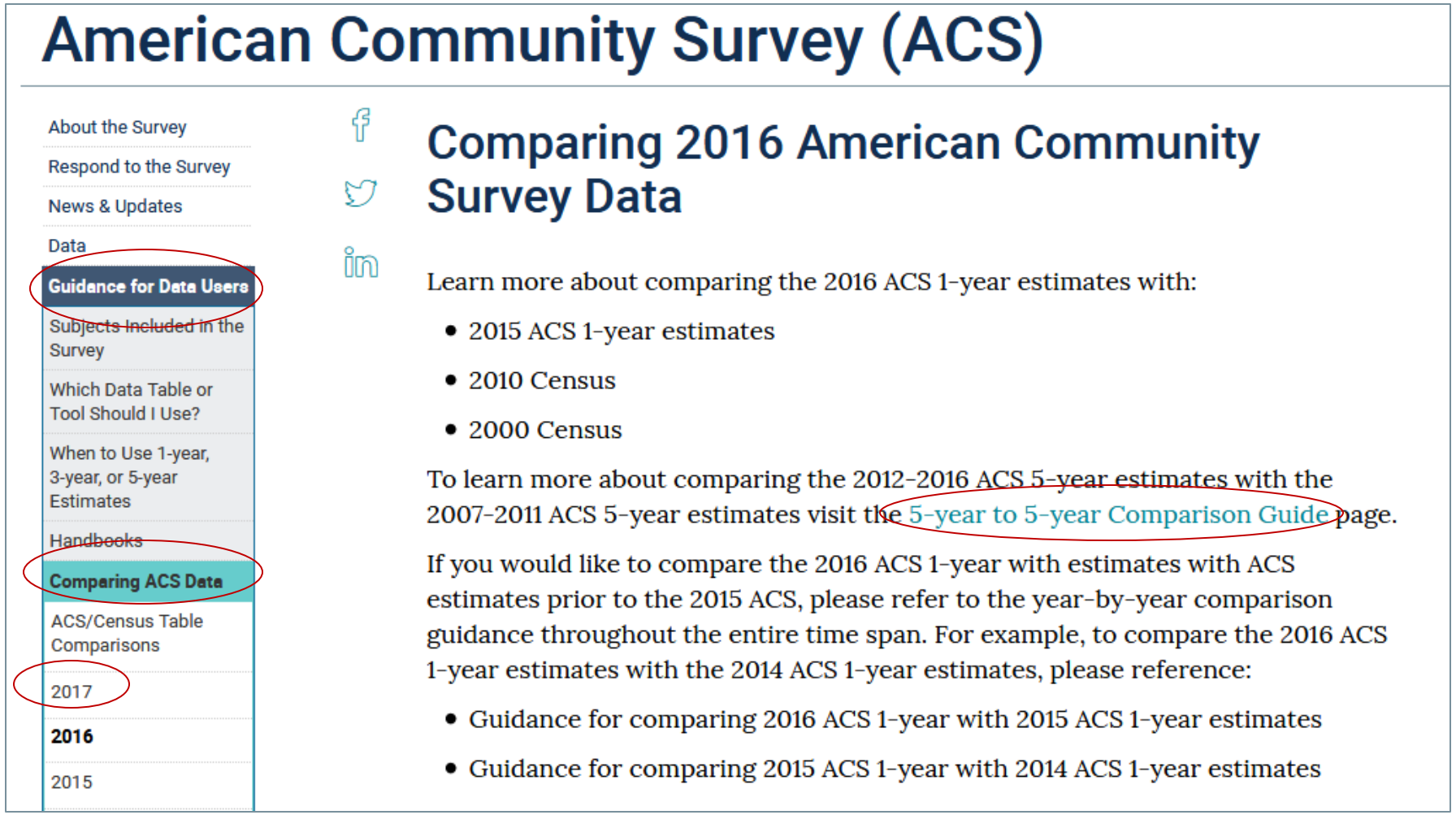
U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

census.gov/programs-surveys/acs/news/data-releases.html

Technical Documentation



Comparison Guidance



Statistical Testing Tool

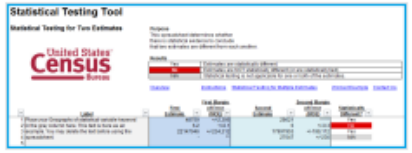
American Community Survey (ACS)

- About the Survey
- Respond to the Survey
- News & Updates
- Data
- **Guidance for Data Users**
  - Subjects Included in the Survey
  - Which Data Table or Tool Should I Use?
  - When to Use 1-year, 3-year, or 5-year Estimates
  - Handbooks
  - Comparing ACS Data
  - **Statistical Testing Tool**
  - Training Presentations

Statistical Testing Tool

Comparing American Community Survey (ACS) estimates involves more than determining which statistic is higher or lower. Users should also conduct statistical testing to make sure differences are statistically significant and are unlikely to have occurred by chance. This testing takes into account the margin of error (MOE) associated with survey estimates, which are based on responses from only a sample of the full population.

Looking for an easy way to conduct statistical testing? Try the Census Bureau's new Statistical Testing Tool. Simply copy or download ACS estimates and their MOEs into the spreadsheet to get instant results of statistical tests.



Download Statistical Testing Tool [XLSX - 3.5 MB]

Related Information

Share Your ACS Data Story

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You May Be Interested In

RELATED TOPICS

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AROUND THE BUREAU

Email Updates

MOST POPULAR

Share Your ACS Data Story

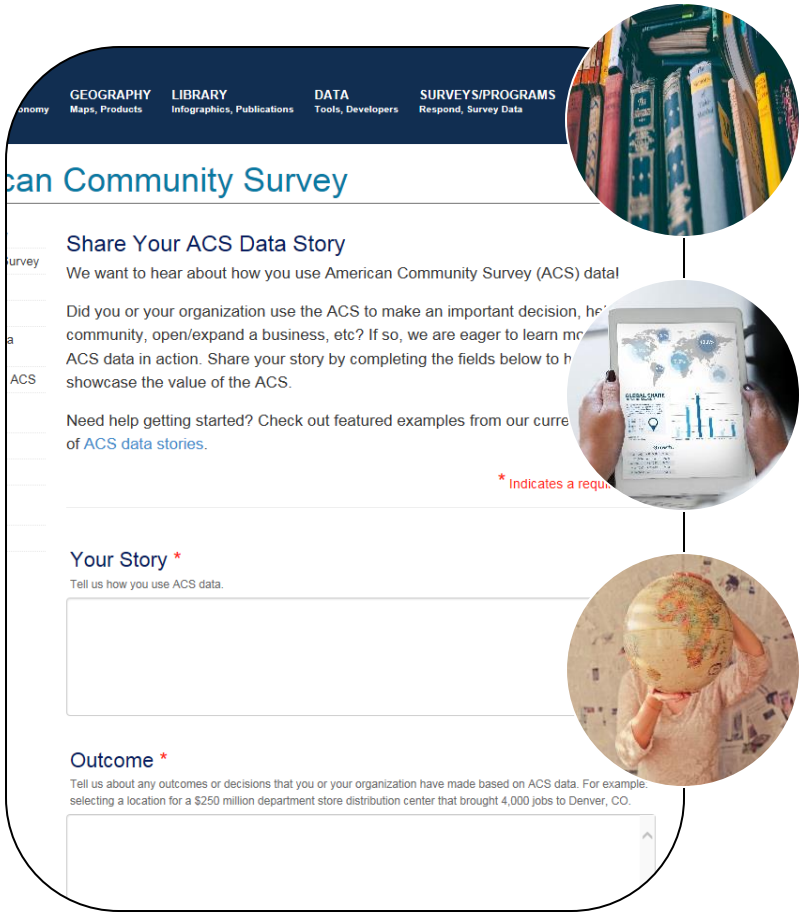
Questions?

Dial *1 for the Operator

After Questions Stay for a Demo:

How to Access 5-Year Block Group Data on American FactFinder

Data Tell Stories. Tell Us Yours!



Your story

Your outcome

Your data details

Data.census.gov

Data.census.gov – Preview Platform

United States Census Bureau

Explore Census Data

The Census Bureau serves as the leading source of quality data about the nation's people and economy.

maricopa

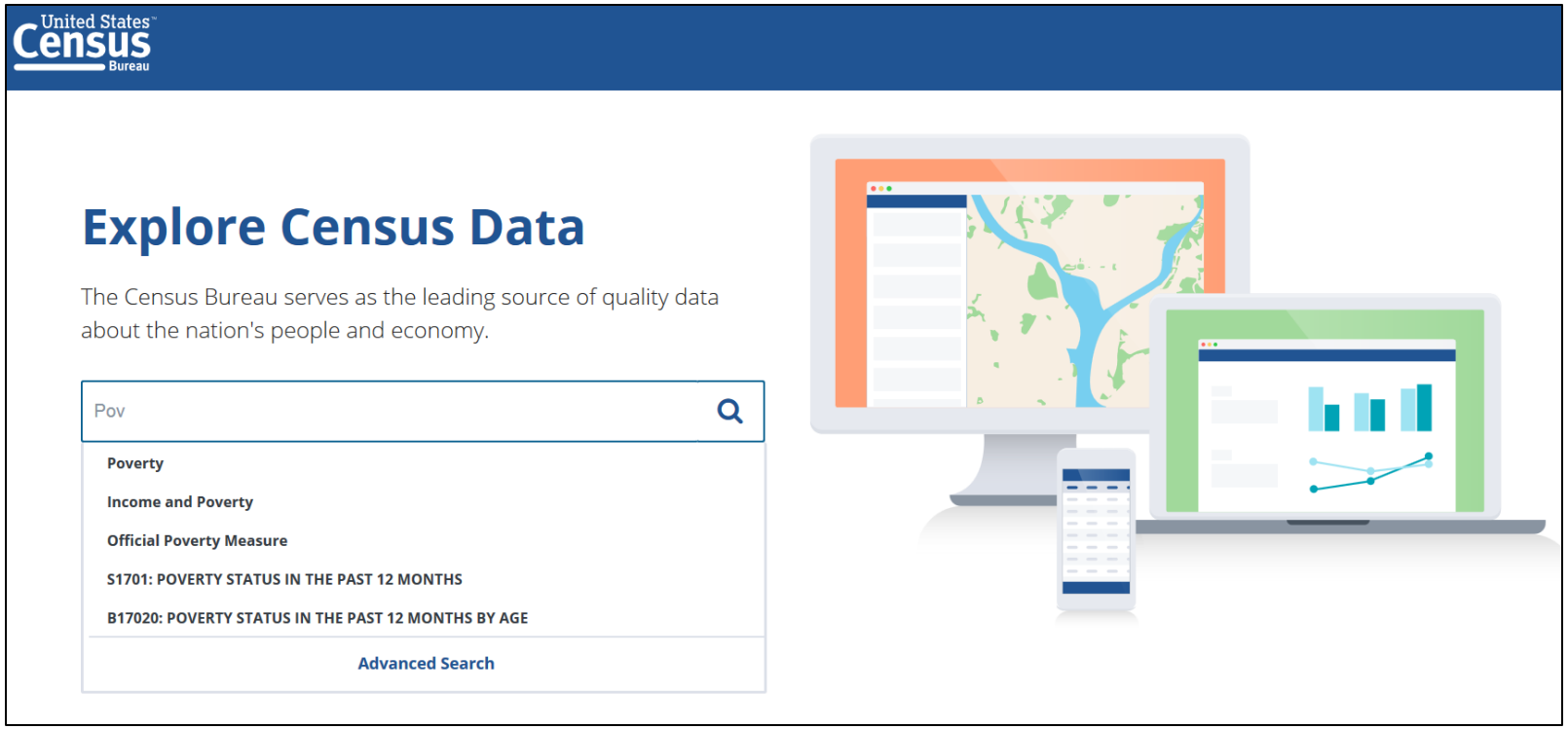
Maricopa County, Arizona County Profile
Covering 9,196.8 square miles, Maricopa County, Arizona is the 5th largest county in Arizona by area. Maricopa County, Arizona is bordered by Gila County, Yuma County, Pinal County, Pima County, Yavapai County, La Paz County in Arizona.

GEOGRAPHIES

Maricopa County, Arizona

Phoenix CCD, Maricopa County, Arizona

Our Development Depends on YOUR Feedback



Check out our preview platform at data.census.gov and tell us how we can make Census data easier to access for your news stories at cedsci.feedback@census.gov.

Accessing ACS 5 Year Block Group Data in American FactFinder

United States™ Census Bureau
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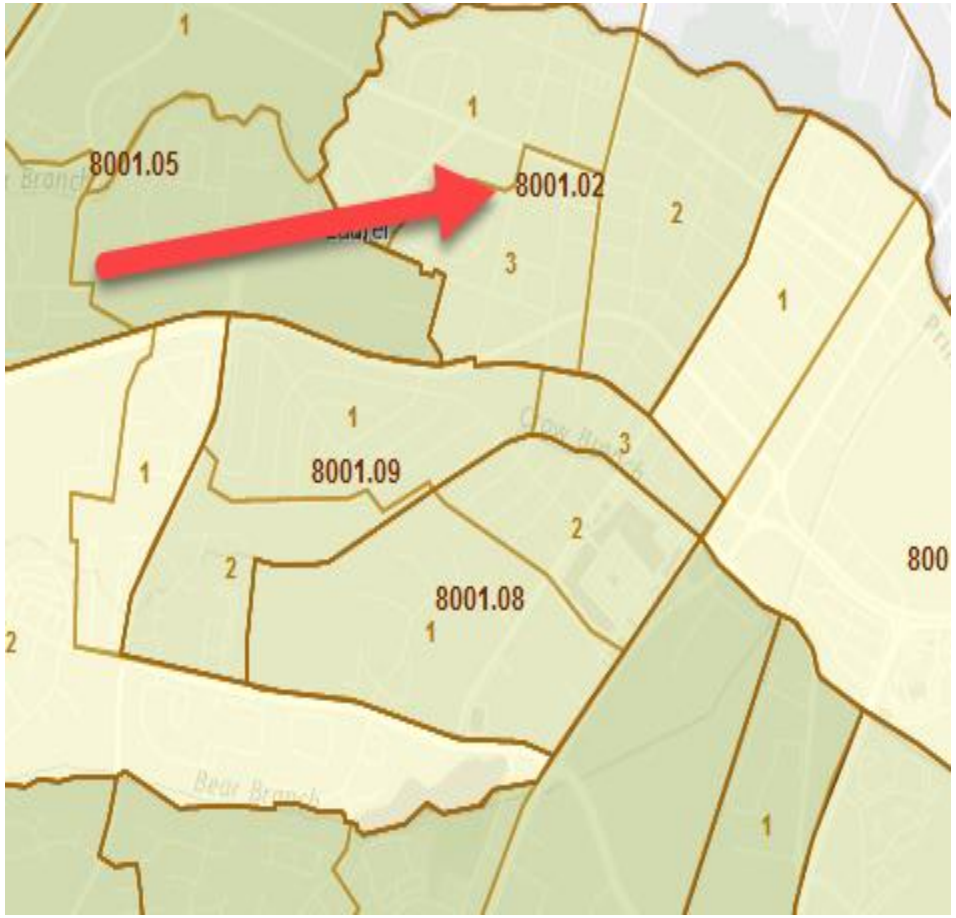
What is a Block Group?



Population of:

Block Group 1 = 889

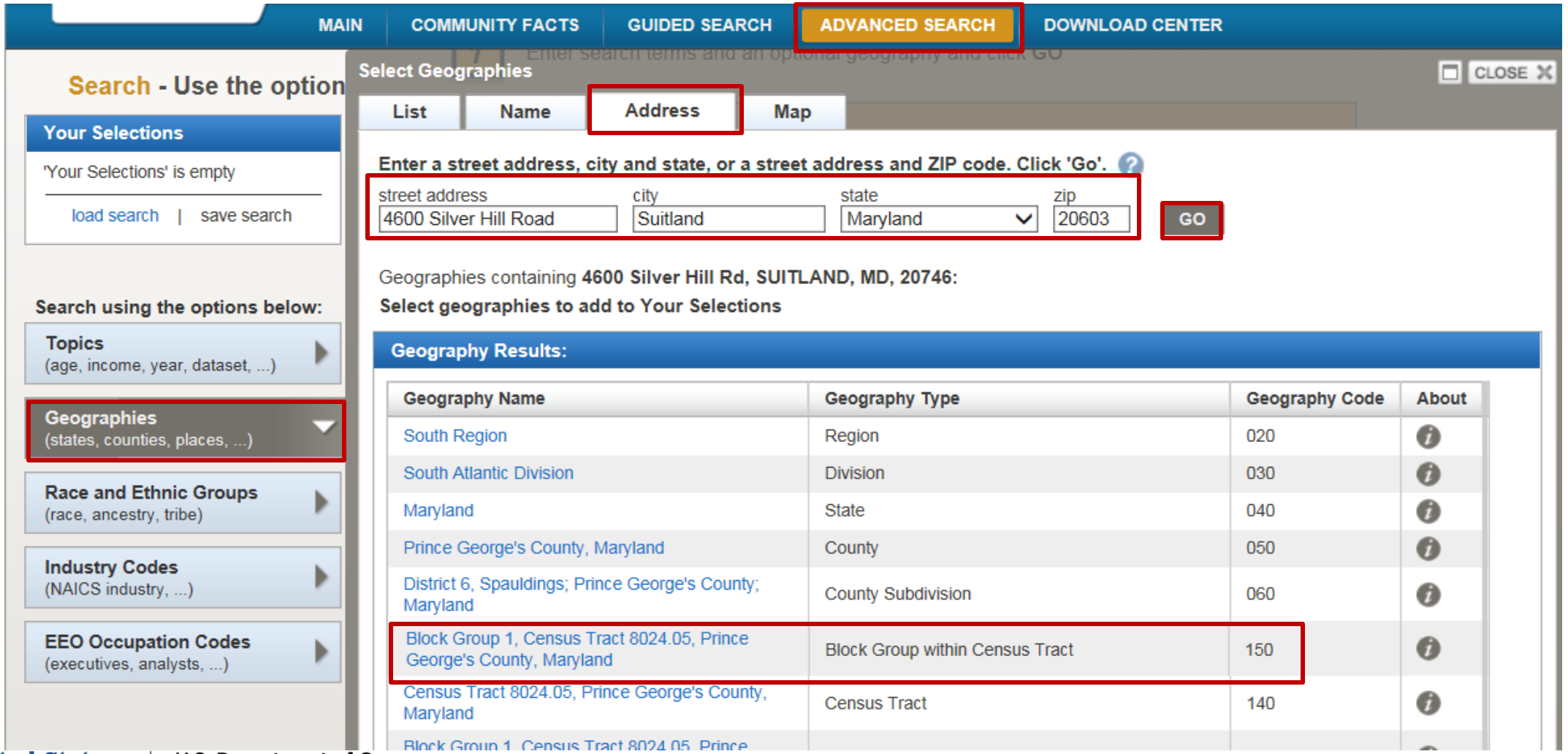
+Block Group 2 = 1,365

+Block Group 3 = 591

Tract 8001.02 = 2,845

Access American FactFinder

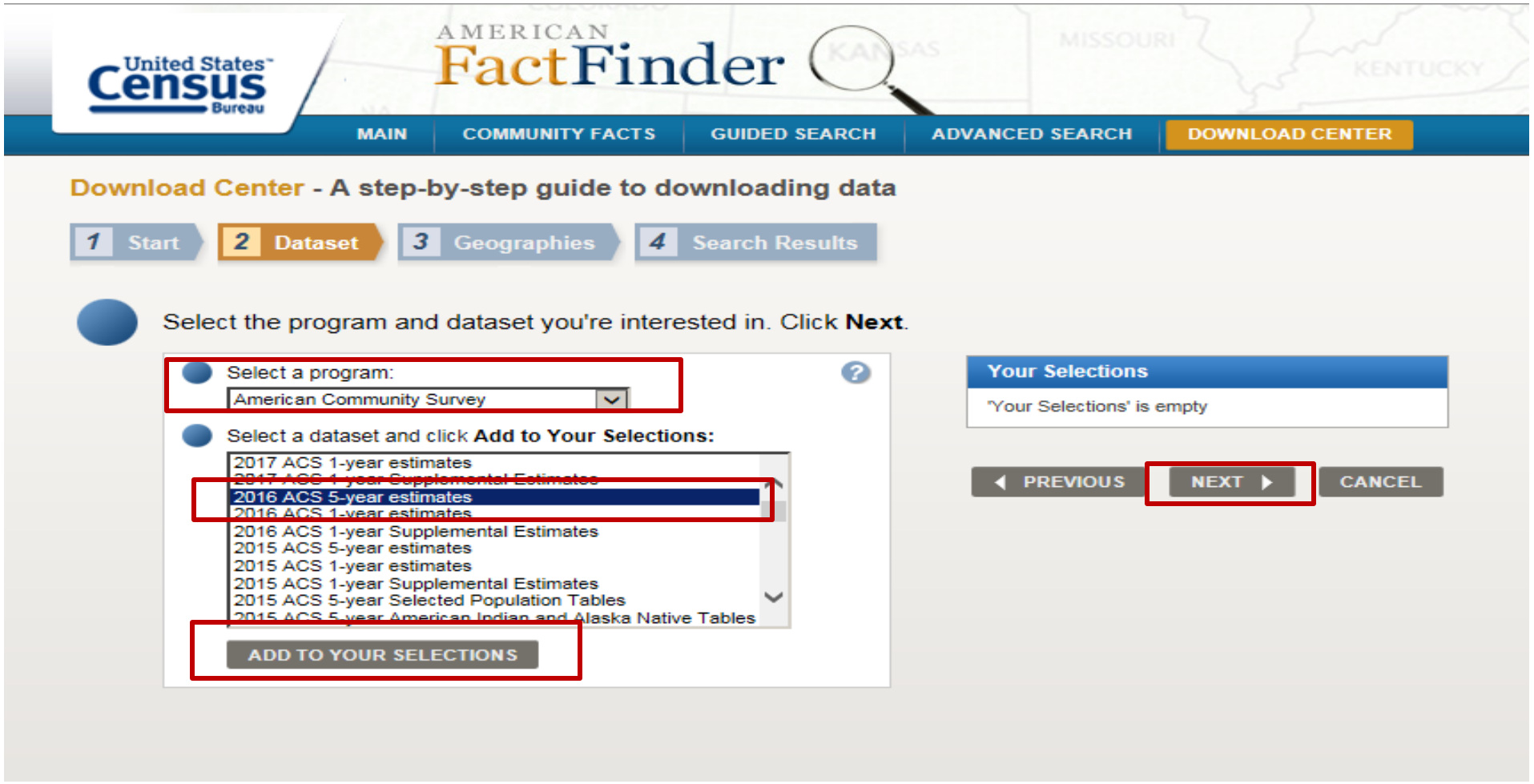
Finding Your Block Group in AFF



1. Start

United States Census Bureau
AMERICAN FactFinder
MAIN
COMMUNITY FACTS
GUIDED SEARCH
ADVANCED SEARCH
DOWNLOAD CENTER
Download Center - A step-by-step guide to downloading data
1 Start
2 Dataset
3 Geographies
4 Search Results
Choose from one of the following and click Next.
I know the dataset or table(s) that I want to download.
I want to find prepackaged data that I can download.
The Download Center is designed for experienced users, providing quick access to downloadable data for predefined groups of geographies and prepackaged files.
tell me more »
PREVIOUS
NEXT
CANCEL

2. Dataset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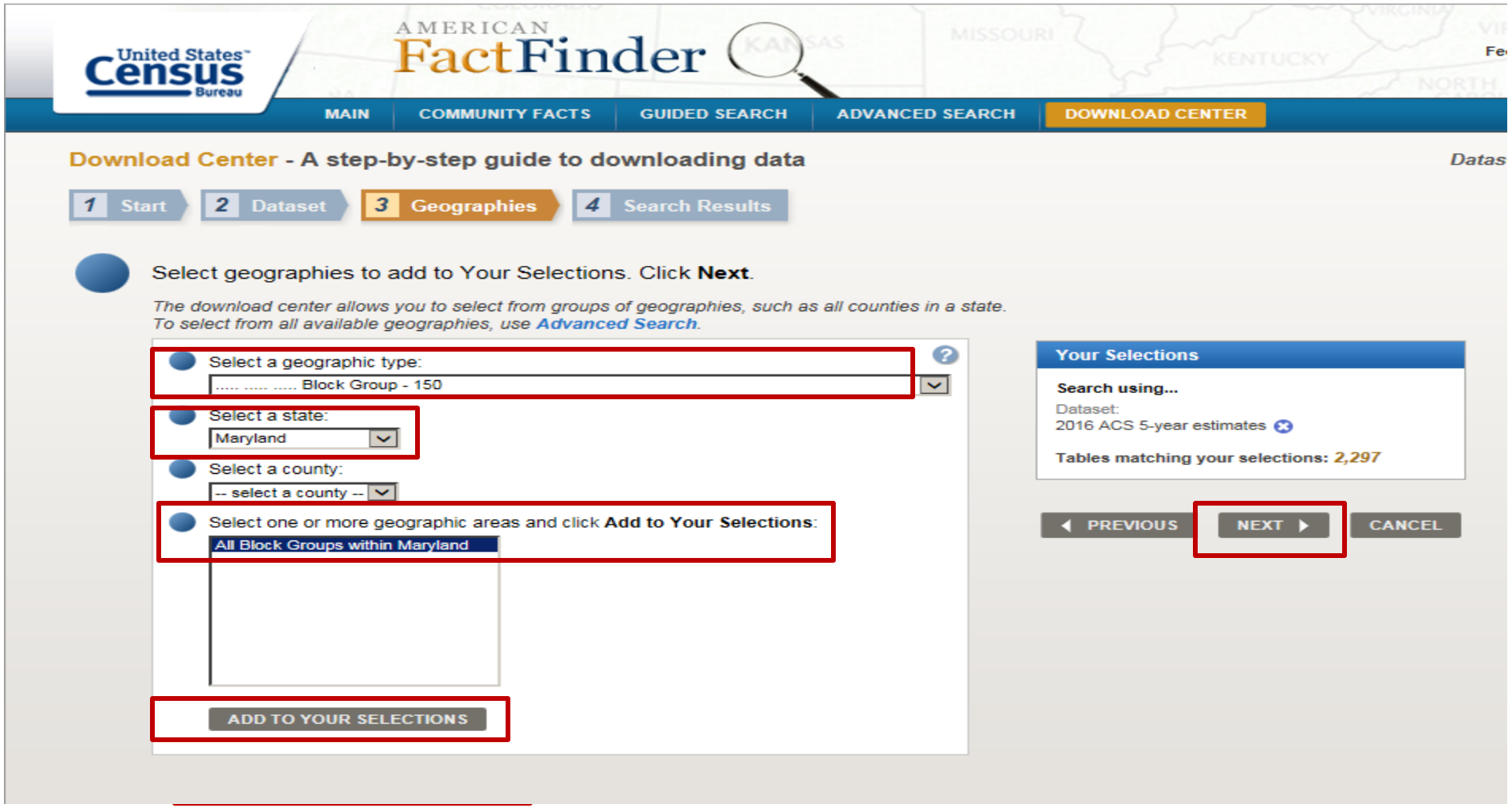
Download Center - A step-by-step guide to downloading data
1 Start
2 Dataset
3 Geographies
4 Search Results
Select the program and dataset you're interested in. Click Next.
Select a program:
American Community Survey
Select a dataset and click Add to Your Selections:
2017 ACS 1-year estimates
2016 ACS 5-year estimates
2016 ACS 1-year estimates
2016 ACS 1-year Supplemental Estimates
2015 ACS 5-year estimates
2015 ACS 1-year estimates
2015 ACS 1-year Supplemental Estimates
2015 ACS 5-year Selected Population Tables
ADD TO YOUR SELECTIONS
Your Selections
'Your Selections' is empty
PREVIOUS
NEXT
CANCEL

3. Geographies



4. Search Results

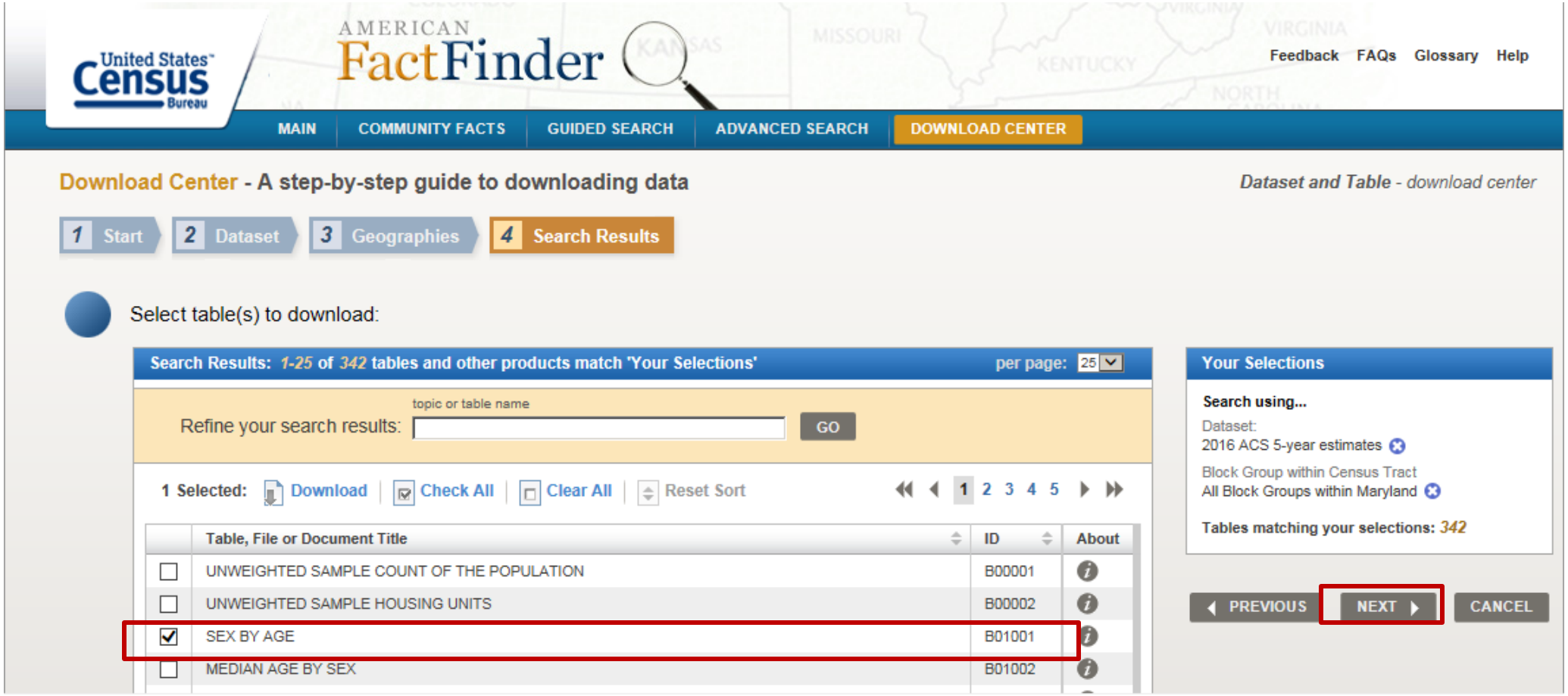
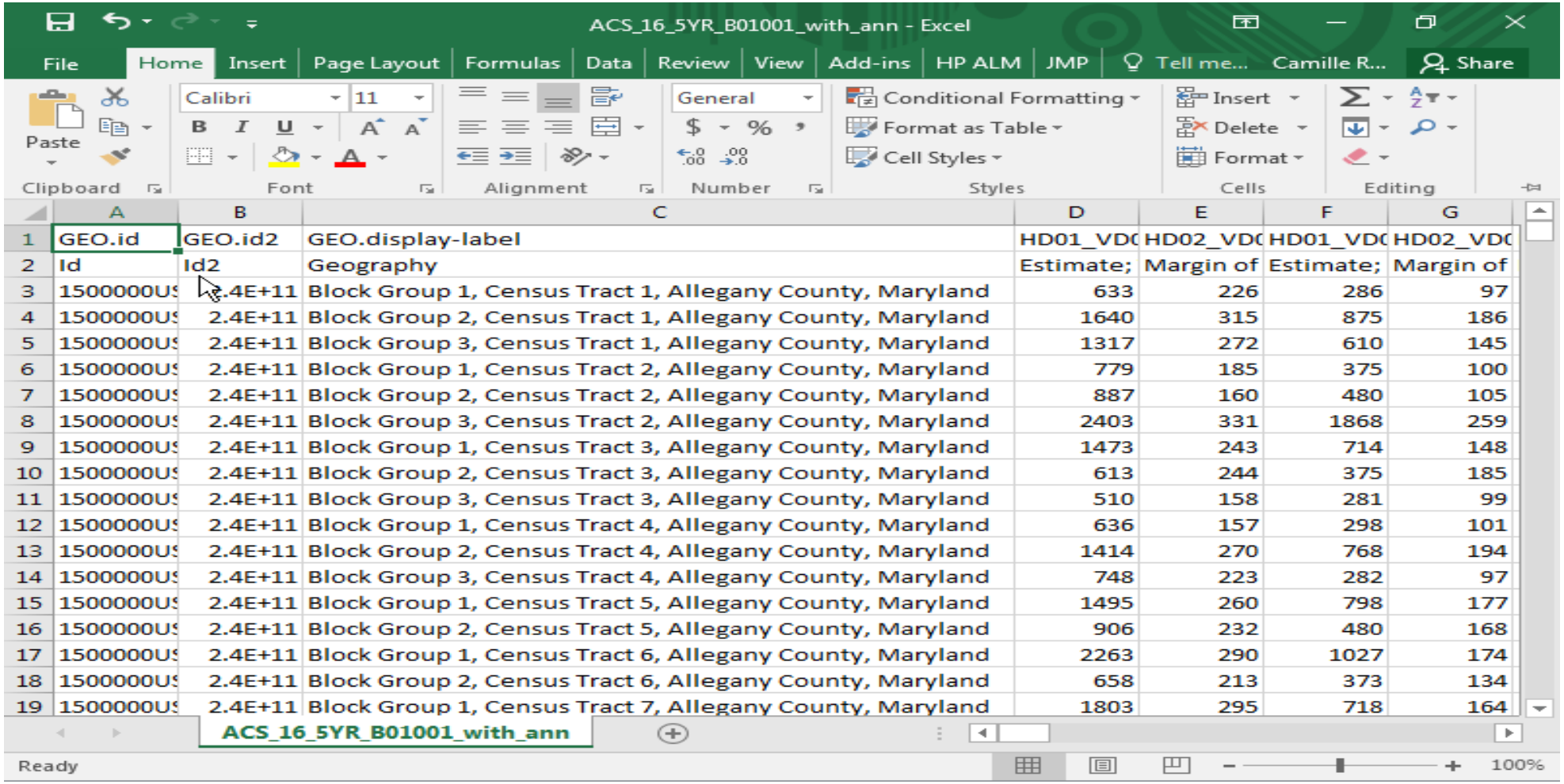


Table B01001



	A	B	C	D	E	F	G
1	GEO.id	GEO.id2	GEO.display-label	HD01_VD0	HD02_VD0	HD01_VD0	HD02_VD0
2	Id	Id2	Geography	Estimate;	Margin of	Estimate;	Margin of
3	1500000US	2.4E+11	Block Group 1, Census Tract 1, Allegany County, Maryland	633	226	286	97
4	1500000US	2.4E+11	Block Group 2, Census Tract 1, Allegany County, Maryland	1640	315	875	186
5	1500000US	2.4E+11	Block Group 3, Census Tract 1, Allegany County, Maryland	1317	272	610	145
6	1500000US	2.4E+11	Block Group 1, Census Tract 2, Allegany County, Maryland	779	185	375	100
7	1500000US	2.4E+11	Block Group 2, Census Tract 2, Allegany County, Maryland	887	160	480	105
8	1500000US	2.4E+11	Block Group 3, Census Tract 2, Allegany County, Maryland	2403	331	1868	259
9	1500000US	2.4E+11	Block Group 1, Census Tract 3, Allegany County, Maryland	1473	243	714	148
10	1500000US	2.4E+11	Block Group 2, Census Tract 3, Allegany County, Maryland	613	244	375	185
11	1500000US	2.4E+11	Block Group 3, Census Tract 3, Allegany County, Maryland	510	158	281	99
12	1500000US	2.4E+11	Block Group 1, Census Tract 4, Allegany County, Maryland	636	157	298	101
13	1500000US	2.4E+11	Block Group 2, Census Tract 4, Allegany County, Maryland	1414	270	768	194
14	1500000US	2.4E+11	Block Group 3, Census Tract 4, Allegany County, Maryland	748	223	282	97
15	1500000US	2.4E+11	Block Group 1, Census Tract 5, Allegany County, Maryland	1495	260	798	177
16	1500000US	2.4E+11	Block Group 2, Census Tract 5, Allegany County, Maryland	906	232	480	168
17	1500000US	2.4E+11	Block Group 1, Census Tract 6, Allegany County, Maryland	2263	290	1027	174
18	1500000US	2.4E+11	Block Group 2, Census Tract 6, Allegany County, Maryland	658	213	373	134
19	1500000US	2.4E+11	Block Group 1, Census Tract 7, Allegany County, Maryland	1803	295	718	164

Questions?

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- Purpose:
  - Improve understanding of the value and utility of ACS data.
  - Promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
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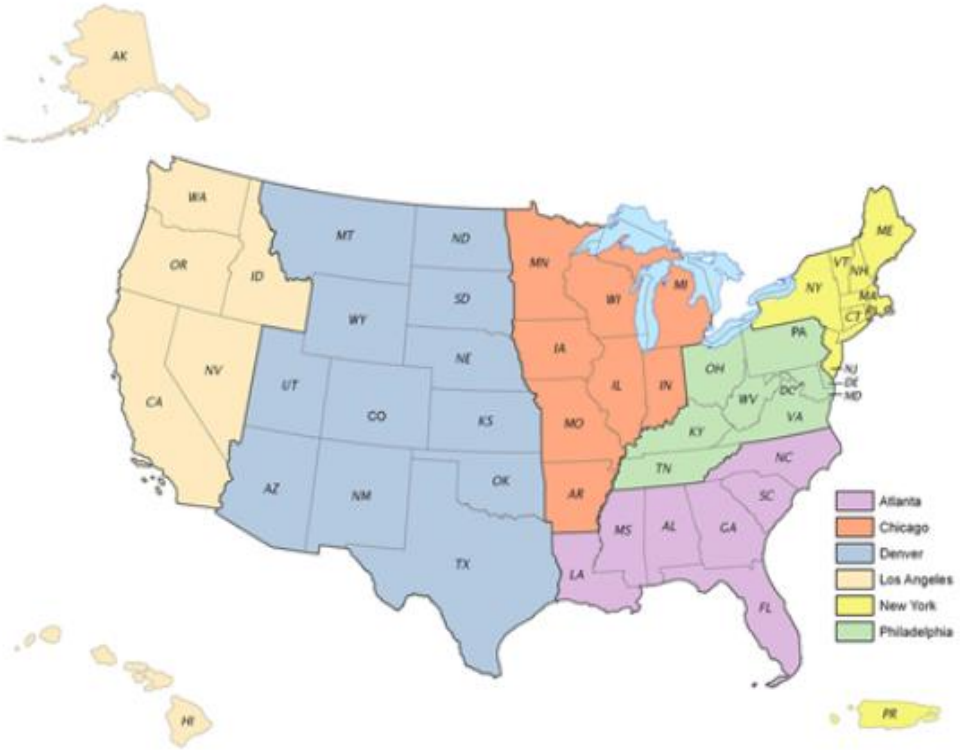

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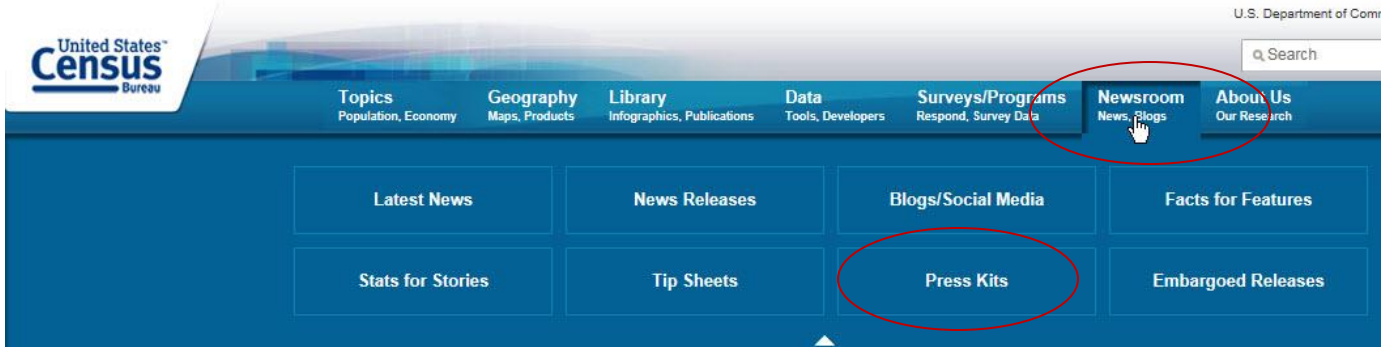

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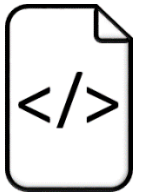

Source Us:

U.S. Census Bureau's 2013-2017 American Community Survey

Evaluation