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

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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

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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

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ACS Basics

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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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

- <u>All</u> 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		

▶ **Language**

Among people at least five years old living in Prince George's County, Maryland in 2012-2016, 23 percent spoke a language other than English at home. Of those speaking a language other than English at home, 58 percent spoke Spanish and 42 percent spoke some other language; 46 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 Prince George's County, Maryland in 2012-2016
click graph to view data in table format

Language	Percent
Spanish	58.0
Other Indo-European languages	14.5
Asian and Pacific Islander languages	11.8
Other languages	15.7
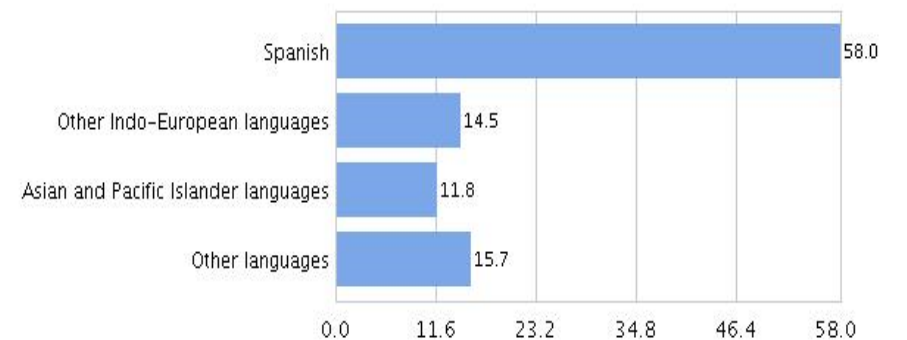
ACS New Tables

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

www2.census.gov/programs-surveys/acs/tech_docs/table_shells/2017

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

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American FactFinder (AFF)

5-Year Summary File

census.gov/programs-surveys/acs/data/summary-file.html

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

Language	Percent
Spanish	42.3
Other Indo–European languages	24.9
Asian and Pacific Islander languages	21.1
Other languages	11.7
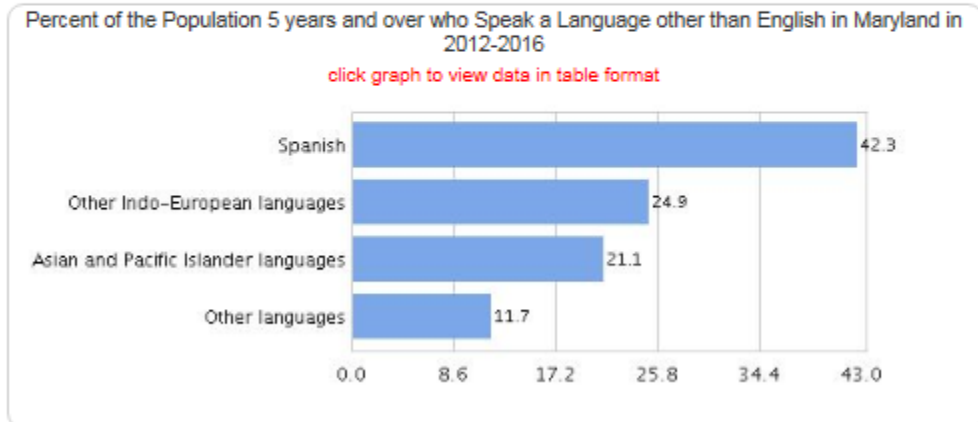
▶ **Housing Costs**

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

	Percent
Owners with mortgage	30.9
Owners without mortgage	14.4
Renters	50.5
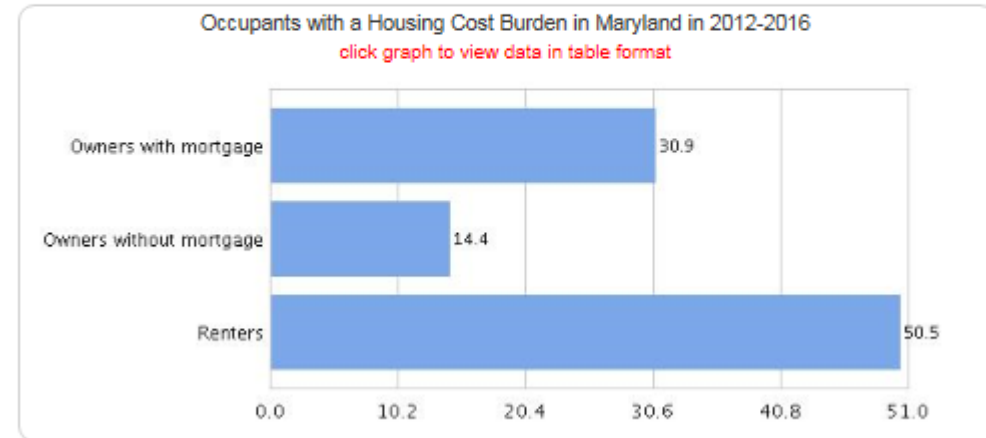
▶ **Employment Status and Type of Employer**

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

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census.gov/acs/www/data/data-tables-and-tools/narrative-profiles/

Application Programming Interface (API)
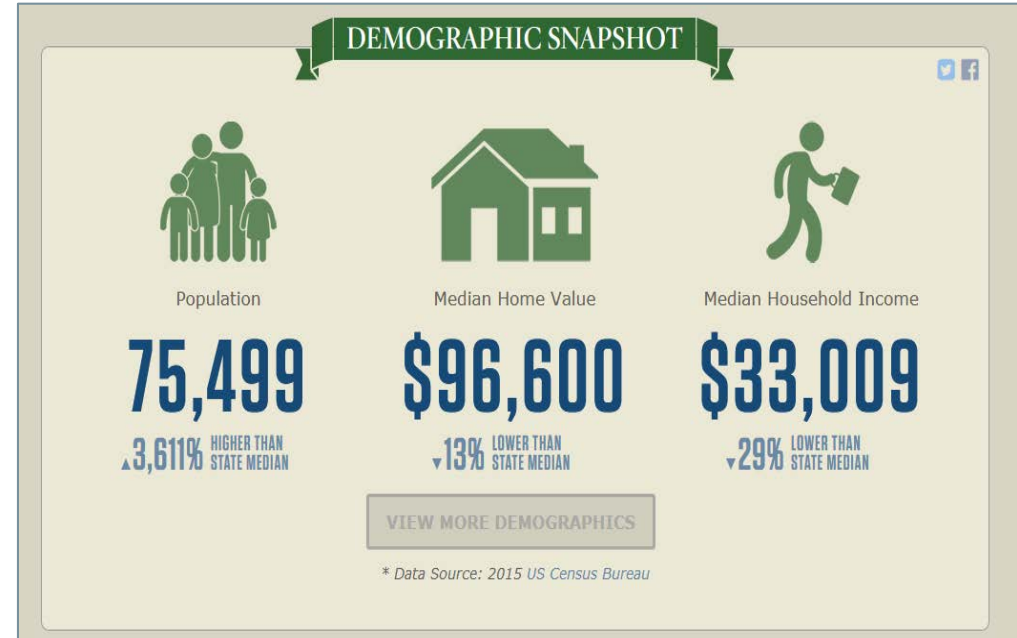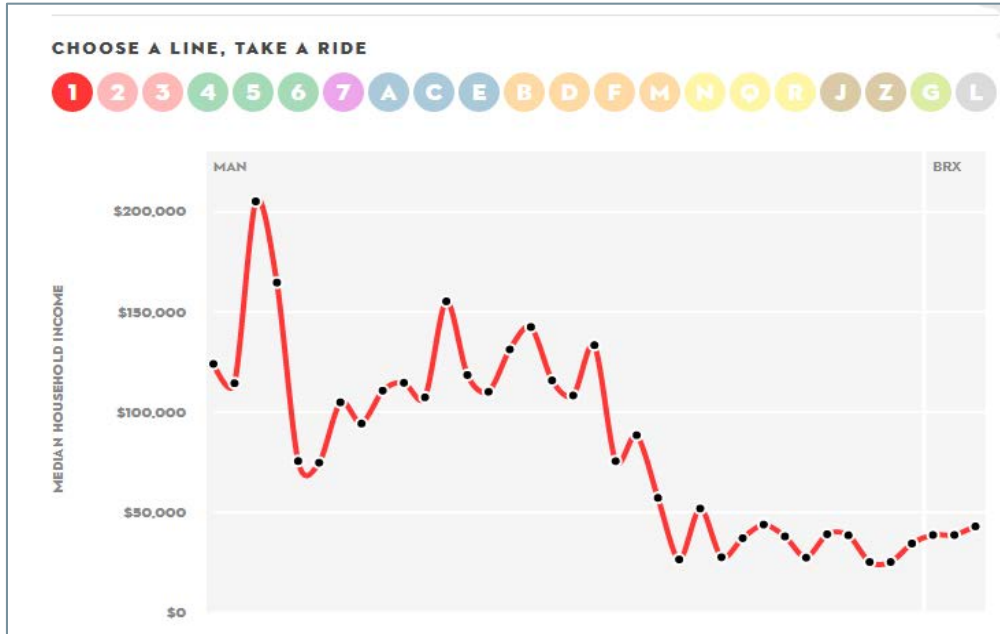
census.gov/developers
census.gov/programs-surveys/acs/guidance/training-presentations/acs-api.html

Data Tool Updates

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census.gov/data/data-tools.html

ACS Documentation

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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
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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.

Stats In Action: New O...

How do I respond to the ACS?

Why do you ask each question?

Where can I get ACS data?

Data

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census.gov/acs

Data Release Information

American Community Survey (ACS)

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News

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Respond to the ACS
Learn how

Data Releases

Leading up to the annual release of new datasets, the Census Bureau publishes a schedule, notes about new estimates or new guidance, and technical information about geography and product changes. Users can also browse the notes from previous years using the tabs below.

2017   2016   2015   2014   2013   2012   2011   2010   **MORE** ⌄

2017

Details About the 2017 Release

2017 Data Release New and Notable
Learn more about items of interest related to the 2017 ACS release.

2017 Data Release Schedule
Review the dates and components of the 2017 ACS release.

2017 Table & Geography Changes
Learn more about changes to tables and geography for each ACS data release.

Related Information

Share Your ACS Data Story

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

Technical Documentation

census.gov/programs-surveys/acs/technical-documentation.html

Comparison Guidance

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

ACS/Census Table Comparisons

2017

2016

2015

Comparing 2016 American Community Survey Data

Learn more about comparing the 2016 ACS 1-year estimates with:

- 2015 ACS 1-year estimates
- 2010 Census
- 2000 Census

To learn more about comparing the 2012-2016 ACS 5-year estimates with the 2007-2011 ACS 5-year estimates visit the 5-year to 5-year Comparison Guide page.

If you would like to compare the 2016 ACS 1-year with estimates with ACS estimates prior to the 2015 ACS, please refer to the year-by-year comparison guidance throughout the entire time span. For example, to compare the 2016 ACS 1-year estimates with the 2014 ACS 1-year estimates, please reference:

- Guidance for comparing 2016 ACS 1-year with 2015 ACS 1-year estimates
- Guidance for comparing 2015 ACS 1-year with 2014 ACS 1-year estimates

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census.gov/programs-surveys/acs/guidance/comparing-acs-data/2017.html   32

Statistical Testing Tool

American Community Survey (ACS)

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.

Navigation: 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

Download Statistical Testing Tool [XLSX - 3.5 MB]

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Questions?

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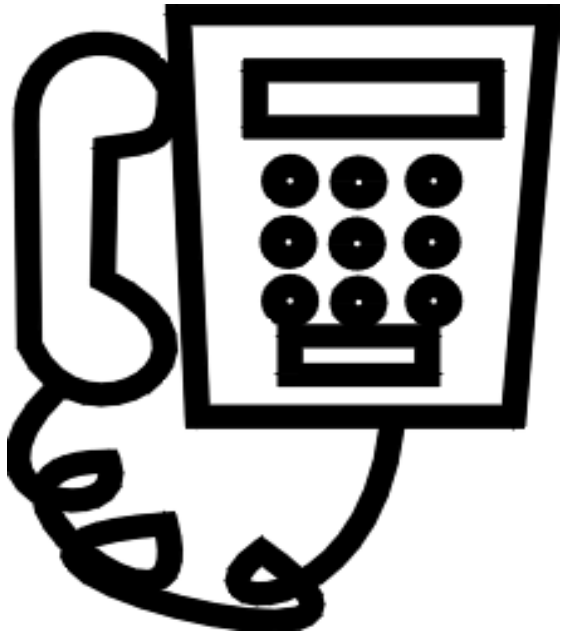
After Questions Stay for a Demo:
How to Access 5-Year Block Group Data on American FactFinder

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Data Tell Stories. Tell Us Yours!

Your story

Your outcome

Your data details

Data.census.gov

Data.census.gov – Preview Platform

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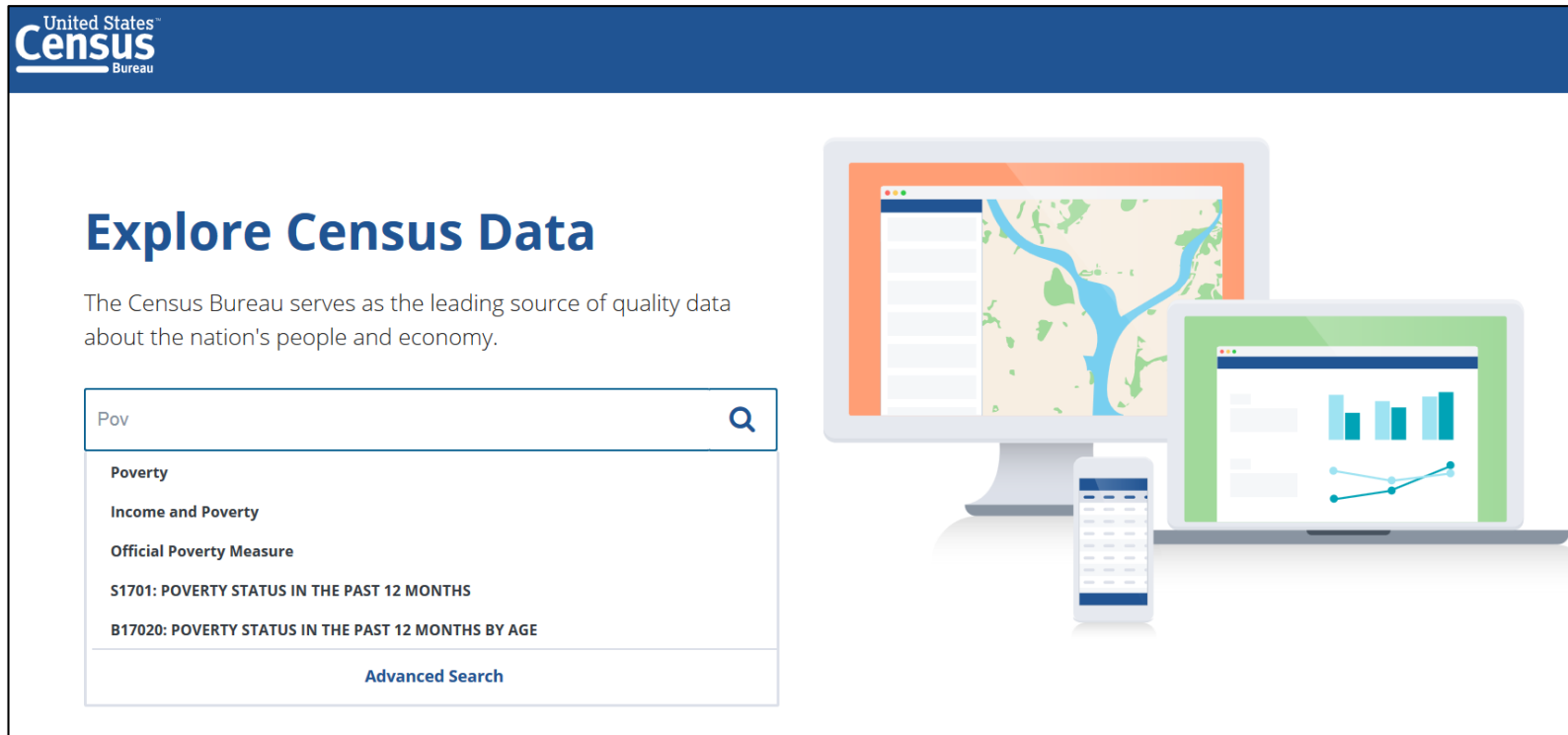
Check out our preview platform at data.census.gov and tell us how we can make Census data easier to access for your news stories at cedsci.feedback@census.gov.

Accessing ACS 5 Year Block Group Data in American FactFinder

What is a Block Group?
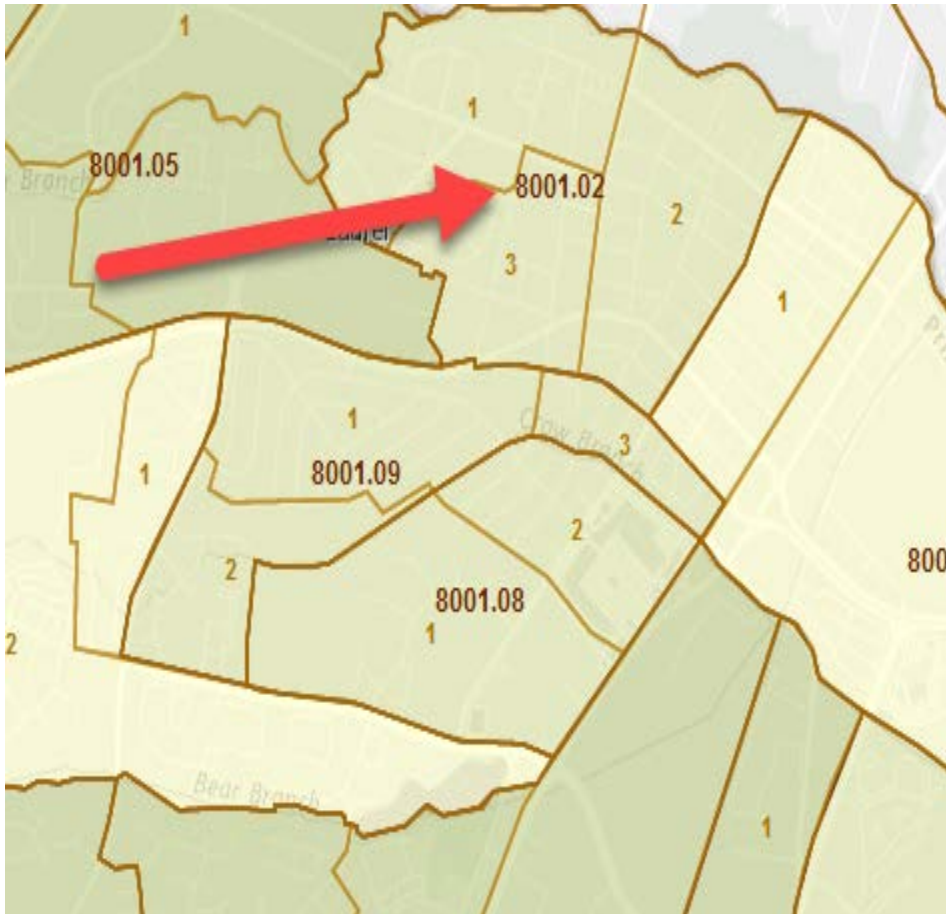
Population of:

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

2. Dataset

3. Geographies

4. Search Results

Table B01001

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Questions?

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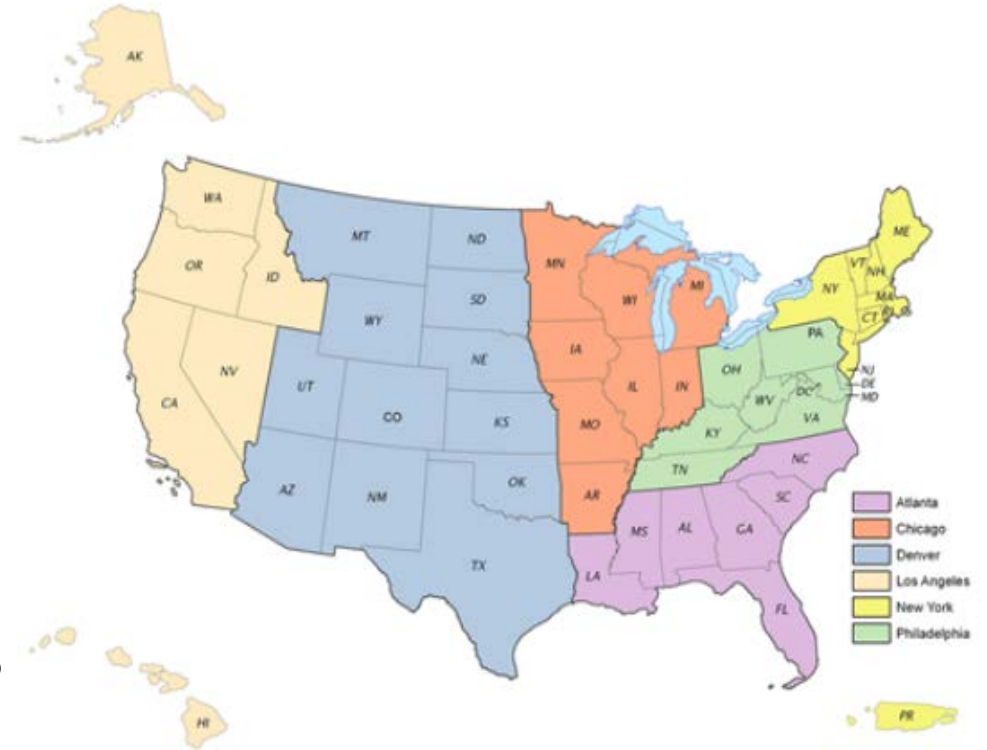*census.gov*

AMERICAN COMMUNITY SURVEY
DATA USERS GROUP

- 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
- ACS Data Users Conference: May 14-15, 2019
- Webinars and special sessions at professional meetings planned
- Users group website and online community

acsdatacommunity.prb.org

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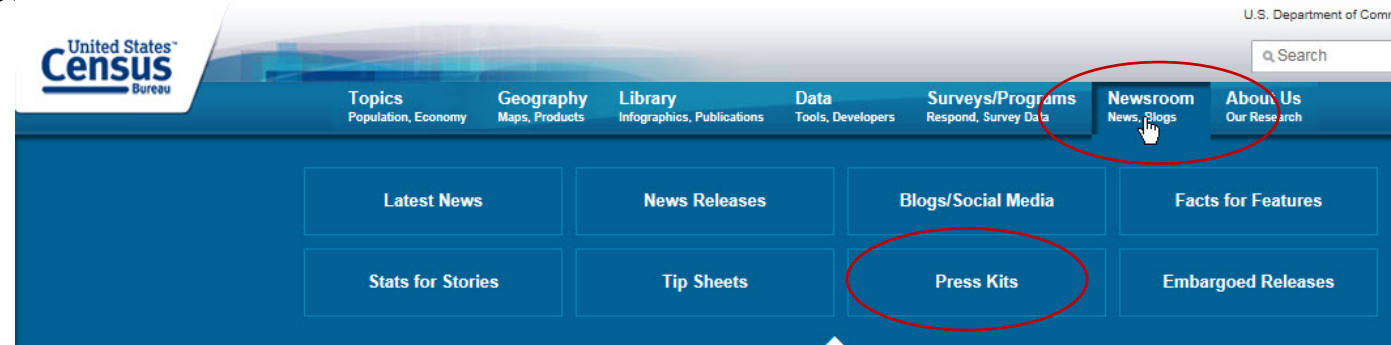
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Non-Media   Customer Service Center

              1-800-923-8282 or

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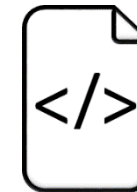

Press Kit

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https://www.census.gov/acs

Source Us:

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

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Evaluation