



Introduction to the American Community Survey Public Use Microdata Sample (PUMS) Files

February 14, 2018

Access the Audio

Toll free number: 888-593-8431

Passcode: 8891612

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Outline

- **PUMS Overview**
- PUMS Geography
- Accessing PUMS Data
- Common Questions
- Documentation and Guidance Resources

American Community Survey is Foundational

- 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 about **3.5 million** households and informs **\$675 billion** of Federal government spending each year
- Designed to produce critical information on **small areas and small population groups** previously collected on the decennial long form
- 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 (12 months of data)
 - 1-year Supplemental Estimates (12 months of data)
 - 5-year estimates (60 months of data)

The image displays three overlapping documents related to the American Community Survey. The top document is a 'Housing' questionnaire with sections for 'Please answer the following questions about the house, apartment, or mobile home at the address on the mailing label' and 'Does this house, apartment, or mobile home have...'. The middle document is a 'United States Census Bureau' survey form with a 'Please Log In' section. The bottom document is a 'Welcome to the American Community Survey' login page with a 'Please Log In' section and a 'Warning' box at the bottom.

What are PUMS files?

Public Use Microdata Sample



Anonymized

Downloadable

- SAS and CSV
- AFF, FTP, DataFerrett

Individual Responses

- Must be tabulated and weighted by user

Representative Sample of the Population

- 1-year (1%)
- 5-year (5%)

Summary Data vs. Microdata

What's the Difference?

	Louisiana	
	Estimate	Margin of Error
Total:	2,020,951	+/-14,211
Male:	1,029,736	+/-9,995
Management, business, science, and arts occupations:	289,129	+/-6,989
Management, business, and financial occupations:	126,805	+/-5,330
Management occupations	99,359	+/-4,708
Business and financial operations occupations	27,446	+/-2,465
Computer, engineering, and science occupations:	57,290	+/-4,110
Computer and mathematical occupations	18,459	+/-2,169
Architecture and engineering occupations	30,797	+/-3,039
Life, physical, and social science occupations	8,034	+/-1,449

Aggregated tables for a geography:

“In 2016 in Louisiana, approximately 18,459 males work in computer and mathematical occupations.”

Individual responses:
“This male in Louisiana is a web developer.”

RT	SERIALNO	SPORDER	ST	SEX	OCCP
P	267855	2	22	1	6600
P	267870	1	22	2	1020
P	267870	2	22	1	1030
P	267913	1	22	2	430
P	267913	2	22	1	9620
P	268097	1	22	2	4110
P	268097	2	22	1	6260

Why Use PUMS?

B24126

DETAILED OCCUPATION FOR THE FULL-TIME, YEAR-ROUND CIVILIAN EMPLOYED FEMALE POPULATION 16 YEARS AND OVER

Universe: Full-time, year-round civilian employed female population 16 years and over ⓘ
2012-2016 American Community Survey 5-Year Estimates

- Data needs are not supported by standard tables
 - Example: occupation by sex by marital status (“married female actuaries”)
- Can create new measures with unique combinations of person and/or household variables
 - Example: spouse’s occupation
- Users want to conduct sophisticated statistical analysis to understand relationship between variables
 - Example: correlation analysis

Visualization Using ACS PUMS: Who Marries Whom

This Chart Shows Who Marries
CEOs, Doctors, Chefs and Janitors



*This example is referenced as an illustration of the type of custom analyses public users can conduct with the ACS PUMS. The Census Bureau was not involved in the study and has not evaluated the accuracy of any of the information presented.

Summary Data vs. Microdata

Pros and Cons

	Summary Data (ex: AFF)	Microdata (ex: PUMS)
<i>Format</i>	Published tables designed by Census analysts with data user input (weighted with margins of error)	Sample of household and individual responses to questionnaire (and some recoded variables)
<i>Benefits</i>	Easy to use Small geographies	Enables custom tables and analyses More variable detail available
<i>Limitations</i>	Fixed content : <ul style="list-style-type: none">• categories• years• Topic combinations	More complex to use Smaller sample (larger Margins of Error) Edits to protect privacy <ul style="list-style-type: none">• top coding• broader categories No geographies smaller than PUMAs

PUMS Availability

- We release two new PUMS files every year
 - 1-year PUMS (example: 2016 1-year PUMS)
 - October 2017
 - 5-year PUMS (example: 2012-2016 5-year PUMS)
 - January 2018
- Some documentation is released a week earlier

Multiyear (5-year) PUMS Files

- 5-year PUMS files contain the same cases as their component 1-year files
 - 2012 ACS 1-year PUMS
 - 2013 ACS 1-year PUMS
 - 2014 ACS 1-year PUMS = 2012-2016 ACS 5-year PUMS
 - 2015 ACS 1-year PUMS
 - 2016 ACS 1-year PUMS
- Why do we release multiyear PUMS?
 - New weights are produced using latest population estimate “vintages”
 - Coding schemes and dollar amounts are standardized to latest year in the multi-year file

Outline

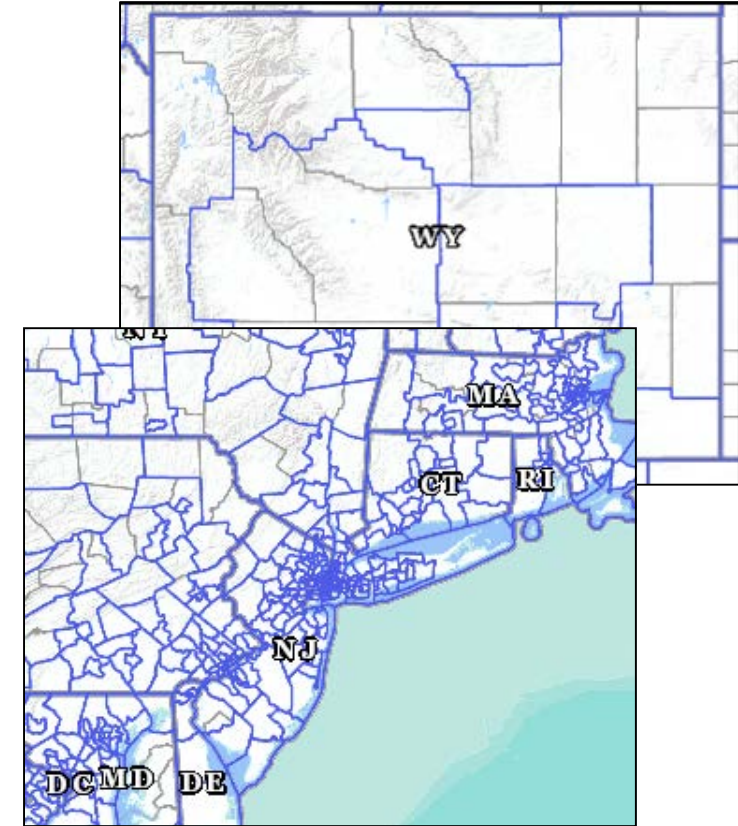
- PUMS Overview
- **PUMS Geography**
- Accessing PUMS Data
- Common Questions
- Documentation and Guidance Resources

Limited Geographic Detail

- Region, division, state, PUMA *only*
 - PUMAs can identify most cities of 100,000+ and many metropolitan areas, but not all
- PUMS is **not** designed for statistical analysis of small geographic areas

Public Use Microdata Area (PUMA)

- An area with 100,000+ population
- Identified by five-digit code (unique within each state)
- Nest within states or equivalent entities
- Geographically contiguous
- Defined after each census
 - 2010 Census PUMAs first used in the 2012 ACS
 - Census tracts and counties are the building blocks
- Missouri Census Data Center's [MABLE](http://mcdc.missouri.edu/websas/geocorr14.html) can match PUMAs to other geographies of interest



census.gov/geo/reference/puma.html
<http://mcdc.missouri.edu/websas/geocorr14.html>

TIGERweb: Visualize PUMA Boundaries for Your Area

TIGERweb

[Home](#)[TIGERweb Applications](#)[WMS](#)[REST Services](#)[Data Files](#)[TIGERweb Geography](#)

TIGERweb Applications

TIGERweb
Contains:

- Current (BAS 2018)
- ACS 2017
- ACS 2016
- 2010 Census (adjusted boundaries)
- Current (BAS 2018) Physical Features

TIGERweb Decennial
Contains:

- 2010 Census
- Census 2000 (adjusted boundaries)
- 2010 Census Physical Features

[Legend](#)
[TIGERweb User Guide](#)

The screenshot shows the TIGERweb application interface. At the top, there's a navigation bar with links: Home, TIGERweb Applications (highlighted), WMS, REST Services, Data Files, and TIGERweb Geography. Below this, on the left, is a sidebar titled 'TIGERweb Applications' containing a list of data sources (Current BAS 2018, ACS 2017, ACS 2016, 2010 Census adjusted boundaries, Current BAS 2018 Physical Features) and a 'TIGERweb Decennial' section with its own list of data sources. There are also links for 'Legend' and 'TIGERweb User Guide'. The main area is a map of the Eastern United States, showing state boundaries and PUMA (Public Use Microdata Areas) boundaries. Labels for states like PA, NJ, DC, MD, DE, VA, and WV are visible. A search bar at the top right allows for 'Street, City, State, Zip' queries. A 'Layers' panel on the left side of the map shows various data layers like 'Labels', 'Transportation (Roads and Railroads)', 'PUMAs, UGAs, and ZCTAs', etc. A 'Select Vintage' dropdown is set to 'Current'. A scale bar at the bottom indicates 100km.

TIGERweb and TIGERweb Decennial Applications

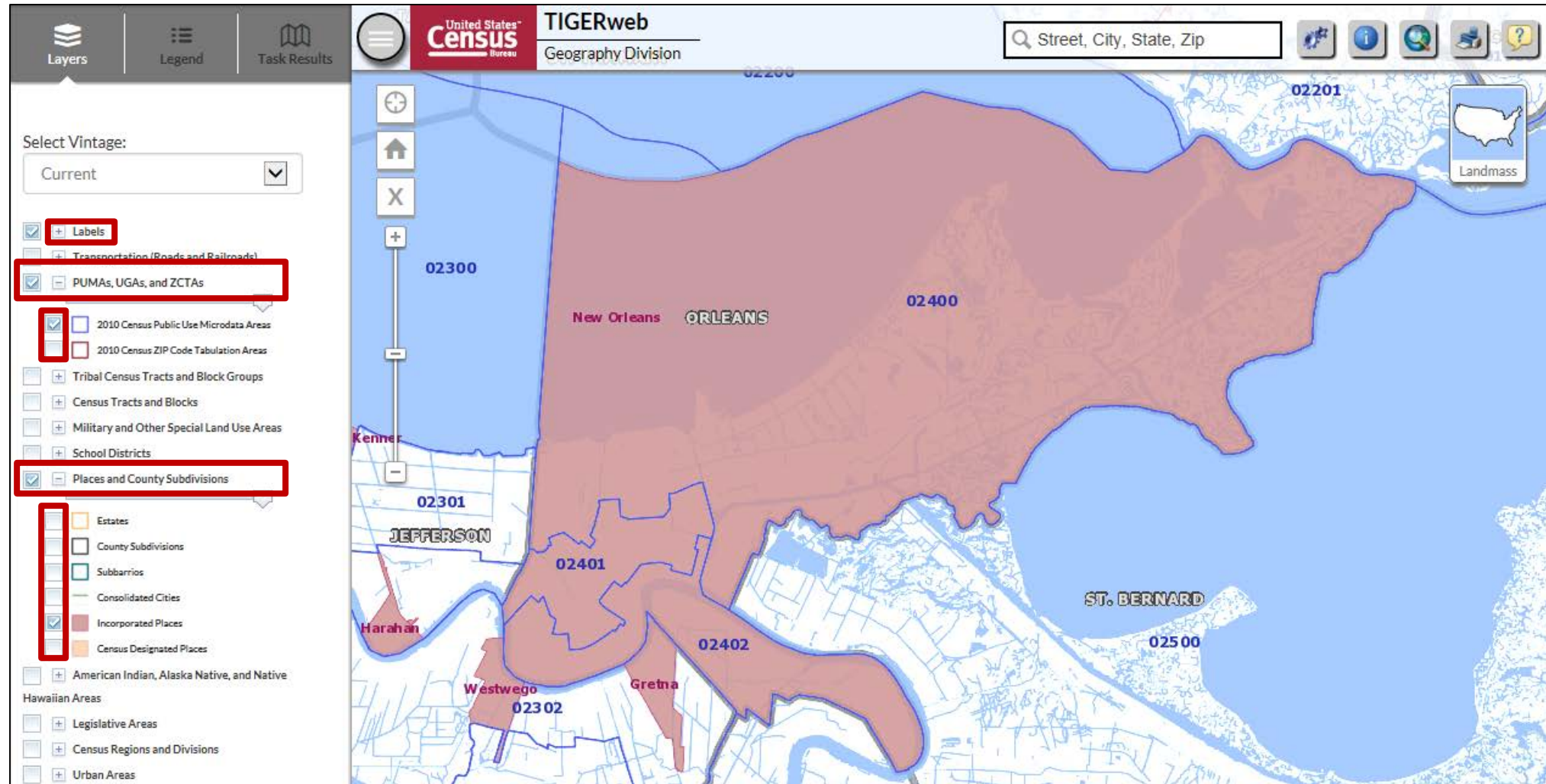
tigerweb.geo.census.gov

Select Labels of Interest

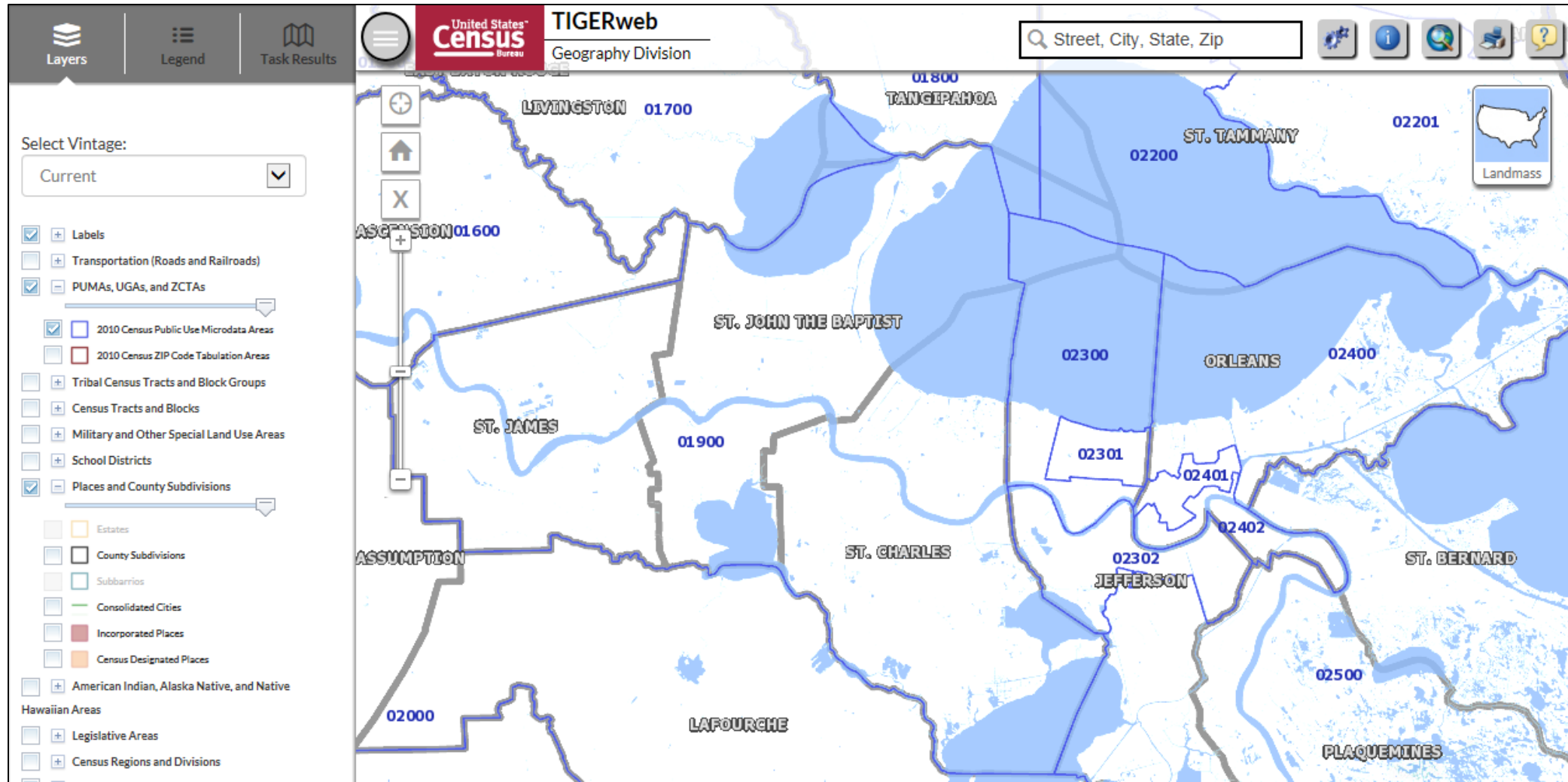
The screenshot displays the TIGERweb interface from the United States Census Bureau. The top navigation bar includes 'Layers', 'Legend', and 'Task Results' tabs. The main header features the 'United States Census Bureau' logo, 'TIGERweb' text, and 'Geography Division'. A search bar on the right prompts 'Street, City, State, Zip'. The left sidebar contains a 'Select Vintage:' dropdown set to 'Current'. Below this, a list of map layers is shown with checkboxes. The 'Labels' checkbox is checked and highlighted with a red box. Under 'Labels', 'PUMAs, UGAs, and ZCTAs' is checked and highlighted with a red box. Under 'Places and County Subdivisions', 'Incorporated Places' is checked and highlighted with a red box. The map area shows a portion of Louisiana, including New Orleans, with various ZIP codes (02300, 02400, 02301, 02401, 02402, 02500) and place names (Jefferson, Harahan, Westwego, Gretna, St. Bernard). A vertical zoom control on the left side of the map is also highlighted with a red box.

Select Boundaries & View Map

Example 1: Three PUMAs cover city of New Orleans/Orleans Parish






Example 2: PUMA that spans counties/county equivalents



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PUMS Data on ACS Website



Census.gov > Our Surveys & Programs > American Community Survey (ACS) > Data > PUMS Data

American Community Survey (ACS)

About the Survey

Respond to the Survey

News & Updates

Data

Data Tables & Tools

Data via FTP

Summary File Data



PUMS Data

Variance Replicate Tables

Race/Ethnicity and American Indian & Alaska Native Data

Custom Tables

PUMS Data



Supporting documentation for the data below is available on the [PUMS Documentation](#) page.

PUMS Data 2005 - Current

Available through the American FactFinder website

2012-2016 ACS 5-year PUMS

2016 ACS 1-year PUMS

2011-2015 ACS 5-year PUMS

2015 ACS 1-year PUMS

2010-2014 ACS 5-year PUMS

2014 ACS 1-year PUMS

Available through the FTP site

2004 ACS PUMS

2003 ACS PUMS

2002 ACS PUMS

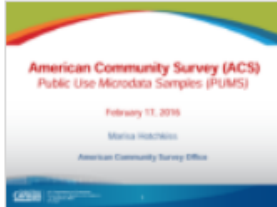
2001 ACS PUMS

2000 ACS PUMS


1996-98 PUMS Files Available on DVD
Microdata for select test areas is available on DVD.

Related Information

Tell Us What You Think!



Introduction to the Public Use Microdata Sample (PUMS) File
February 2017



census.gov/programs-surveys/acs/data/pums.html

American FactFinder

MAIN

COMMUNITY FACTS

GUIDED SEARCH

ADVANCED SEARCH

DOWNLOAD CENTER

Search - Use the options on the left (topics, geographies, ...) to narrow your search results

Your Selections

Search using...

Product Type:
Public Use Microdata Sample

Dataset:
2016 ACS 5-year estimates

clear all selections and start a new search

load search | save search

Search using the options below:

Topics
(age, income, year, dataset, ...)

Geographies

Search Results: 1-2 of 2 tables and other products match 'Your Selections' per page: 25

Refine your search results:

topic or table name

state, county or place (optional)

GO

topics race/ancestry industries occupations

Selected: View Download Compare Clear All Reset Sort

Show results from: All available years All available programs

	ID	Table, File or Document Title	Dataset	About
<input type="checkbox"/>	PUMS-CSV	2012-2016 ACS 5-year Public Use Microdata Samples (PUMS) - CSV format	2016 ACS 5-year estimates	i
<input type="checkbox"/>	PUMS-SAS	2012-2016 ACS 5-year Public Use Microdata Samples (PUMS) - SAS format	2016 ACS 5-year estimates	i


Selected: View Download Compare Clear All Reset Sort



United States
Census
Bureau

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

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American FactFinder (cont'd)

2012-2016 ACS 5-year Public Use Microdata Samples (PUMS) - CSV format 	
2012-2016 ACS 5-year estimates	
United States Population Records	United States Housing Unit Records
Hawaii Population Records	Hawaii Housing Unit Records
Idaho Population Records	Idaho Housing Unit Records
Illinois Population Records	Illinois Housing Unit Records
Indiana Population Records	Indiana Housing Unit Records
Iowa Population Records	Iowa Housing Unit Records
Kansas Population Records	Kansas Housing Unit Records
Kentucky Population Records	Kentucky Housing Unit Records
Louisiana Population Records	Louisiana Housing Unit Records
Maine Population Records	Maine Housing Unit Records
Maryland Population Records	Maryland Housing Unit Records
Massachusetts Population Records	Massachusetts Housing Unit Records
Michigan Population Records	Michigan Housing Unit Records

csv_pla.zip	
 ACS2012_2016_PUMS_README.pdf Type: Adobe Acrobat Document	Date modified: 1/4/2018 9:16 AM Size: 435 KB → 391 KB
 ss16pla.csv Type: Microsoft Excel Comma Separated Values File	Date modified: 12/13/2017 5:35 PM Size: 198 MB → 33.4 MB

	A	B	C	D	E	F	G	H
1	RT	SERIALNO	SPORDER	PUMA	ST	ADJINC	PWGTP	AGE
2	P	2012000000062	1	2200	22	1056030	15	
3	P	2012000000062	2	2200	22	1056030	13	
4	P	2012000000062	3	2200	22	1056030	14	
5	P	2012000000062	4	2200	22	1056030	14	
6	P	2012000000062	5	2200	22	1056030	15	
7	P	2012000000062	6	2200	22	1056030	13	
8	P	2012000000131	1	700	22	1056030	5	
9	P	2012000000250	1	1300	22	1056030	22	
10	P	2012000000250	2	1300	22	1056030	49	
11	P	2012000000382	1	2201	22	1056030	15	
12	P	2012000000382	2	2201	22	1056030	41	

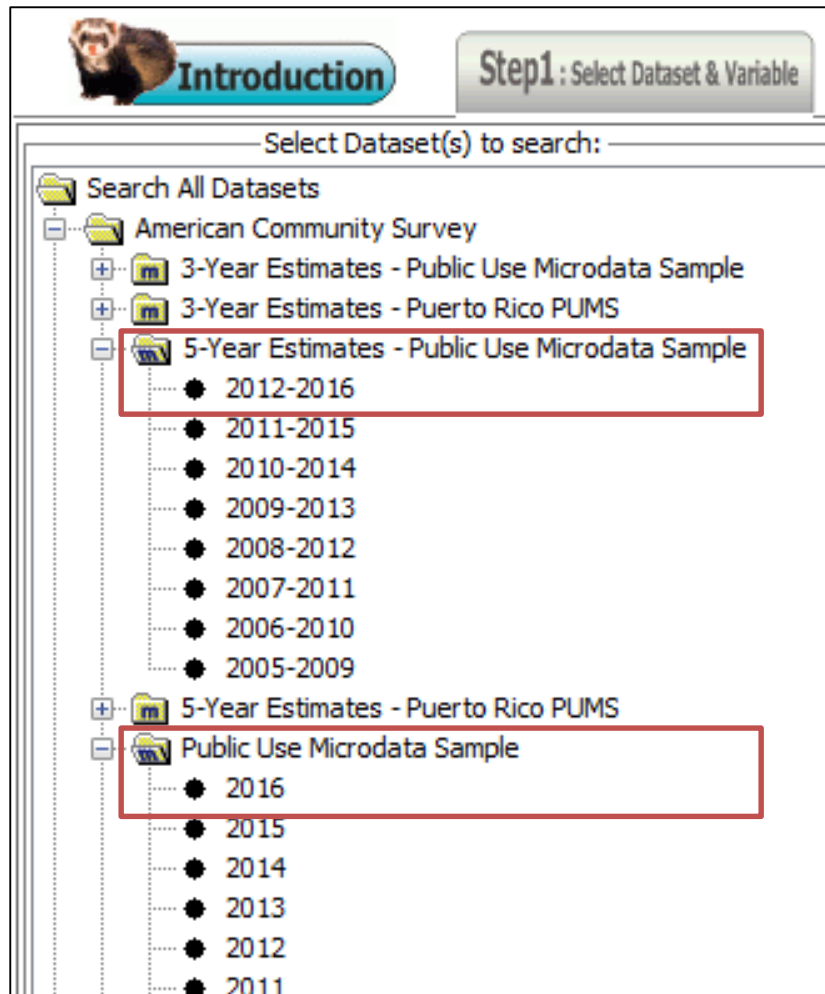
Census Bureau FTP Site

United States Census Bureau			
Topics		Geography	
Population, Economy		Maps, Products	
Name	Last modified	Size	Description
Parent Directory		-	
1996/	06-Aug-2003 13:41	-	
1997/	06-Aug-2003 13:42	-	
1998/	06-Aug-2003 13:42	-	
1999/	06-Aug-2003 13:42	-	
2000/	25-Oct-2012 09:15	-	
2001/	25-Oct-2012 09:14	-	
2002/	25-Oct-2012 09:14	-	
2003/	25-Oct-2012 09:14	-	
2004/	25-Oct-2012 09:13	-	
2005/	25-Oct-2012 09:13	-	
2006/	26-Oct-2007 11:19	-	
2007/	23-May-2015 11:29	-	
2008/	23-May-2015 19:20	-	
2009/	23-May-2015 19:51	-	
2010/	23-May-2015 20:14	-	
2011/	24-May-2015 07:10	-	
2012/	24-May-2015 14:36	-	
2013/	24-May-2015 14:57	-	
2014/	21-Jan-2016 00:01	-	
2015/	19-Jan-2017 00:01	-	
2016/	18-Jan-2018 00:01	-	

United States Census Bureau			
Topics		Geography	Library
Population, Economy		Maps, Products	Infographics, Publications
Name	Last modified	Size	Description
Parent Directory		-	
PUMS_file_naming_convention.pdf	12-Jan-2018 00:11	36K	
csv_hak.zip	12-Jan-2018 00:00	2.5M	
csv_hal.zip	12-Jan-2018 00:00	16M	
csv_har.zip	12-Jan-2018 00:00	10M	
csv_haz.zip	12-Jan-2018 00:00	21M	
csv_hca.zip	12-Jan-2018 00:00	101M	
csv_hco.zip	12-Jan-2018 00:00	17M	
csv_hct.zip	12-Jan-2018 00:00	11M	
csv_hdc.zip	12-Jan-2018 00:00	2.6M	
csv_hde.zip	12-Jan-2018 00:00	3.3M	

www2.census.gov/programs-surveys/acs/data/pums/

DataFerrett



- Menu driven system doesn't require users to have or know how to use statistical software (i.e. SAS, STATA, SPSS, etc.)
- Can download specific variables only
- Create variable recodes

dataferrett.census.gov

DataFerrett Assistance

Video Tutorials



Creating ACS Custom Tables Using DataFerrett - Part 1

May 09, 2014

Part 1 of this tutorial will show you how to make an ACS custom table using DataFerrett, the Census Bureau's free data analysis and extraction tool.

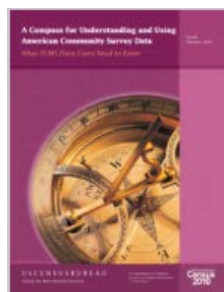


Creating ACS Custom Tables Using DataFerrett - Part 2

May 09, 2014

Part 2 of this tutorial will show you how to change the geography displayed from the default, United States, to a geography that you select.

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



What Public Use Microdata Sample (PUMS)

Data Users Need to Know

(pages 12-23)






census.gov/library/publications/2009/acs/pums.html

Outline

- PUMS Overview
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- **Common Questions**
- Documentation and Guidance Resources

How do I put PUMS files together?

- National level files are released in pieces that users download and concatenate.
- Housing variables and person variables are separated
- Users must merge housing and person files by using the SERIALNO variable.
 - Find example code in the PUMS ReadMe and on the PUMS File Structure page

	ACS2012_2016_PUMS_READM...	1/4/2018
	Type: Adobe Acrobat Document	435 KB
	ss16pusa.csv	12/13/2017
	Type: Microsoft Excel Comma Separated \	4.11 GB
	ss16pusb.csv	12/13/2017
	Type: Microsoft Excel Comma Separated \	3.00 GB
	ss16pusc.csv	12/13/2017
	Type: Microsoft Excel Comma Separated \	3.23 GB
	ss16pusd.csv	12/13/2017
	Type: Microsoft Excel Comma Separated \	3.47 GB

```
data population;  
set psam_pusa psam_pusb psam_pusc psam_pusd;  
run;  
  
data combined; merge population (in=pop)  
housing;  
by serialno;  
if pop;  
run;
```

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

Which weight should I apply?

A weight defines how many persons and housing units one PUMS sample interview represents

- WGTP: PUMS household weights
 - used to produce housing unit estimates
- PWGTP: PUMS person weights
 - used to produce population estimates
- WGTP1 – WGTP80, PWGTP1 – PWGTP80: PUMS Replicate Weights
 - used to calculate standard errors

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

Why don't my PUMS estimates match AFF?

Estimates created with PUMS will be slightly different from AFF estimates:

- PUMS files include only about two-thirds of the cases that were used to produce estimates on American FactFinder
- PUMS files include additional edits

*Use the PUMS Estimates for User Verification if you have doubts about whether you are creating your PUMS estimates correctly

----- State of current residence=22 State=Louisiana -----			
Characteristic	2016 PUMS Estimate	2016 PUMS SE	2016 PUMS MOE
Total males (SEX=1)	2,291,460	4397	7234
Total females (SEX=2)	2,390,206	4397	7234
Age 0-4	306,215	2591	4261
Age 5-9	302,250	5855	9631
Age 10-14	321,434	5575	9171
Age 15-19	313,180	4777	7858
Age 20-24	321,039	5292	8706
Age 25-34	668,150	5891	9690
Age 35-44	589,564	4910	8078
Age 45-54	585,569	4374	7195
Age 55-59	314,217	4426	7281
Age 60-64	285,317	4805	7905
Age 65-74	403,684	2198	3616
Age 75-84	194,718	3212	5284
Age 85 and over	76,321	2917	4799
Total housing units (TYPE=1)	2,037,067	196	323

[census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html](https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html)

How accurate are my PUMS estimates?

Margins of Error (MOEs) Explained

Definition: An MOE is a measure of the possible variation of the estimate around the population value

- At a given confidence level, it is expected that the estimate and actual population value will differ by no more than the MOE
- 90% confidence level is the Census standard and ACS MOEs are provided in the same unit as the estimate

Example: How many males under age 5 live in WY?

Lower bound = $19,649 - 310 = 19,339$

Upper bound = $19,649 + 310 = 19,959$

We are 90% confident the true number of males under age 5 in Wyoming falls **between 19,339 and 19,959**

	Wyoming	
	Estimate	Margin of Error
Total:	579,679	*****
Male:	295,561	+/-598
Under 5 years	19,649	+/-310
5 to 9 years	19,198	+/-638
10 to 14 years	20,703	+/-632
15 to 17 years	11,500	+/-304
18 and 19 years	8,105	+/-322

How accurate are my PUMS estimates? (continued)

Approximate standard errors using:

- Design factors (generalized variance method)
- Replicate weights (successive difference method)
 - Accuracy of the PUMS: [census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html](https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html)
 - Variance Replicate Estimate Tables Doc: [census.gov/programs-surveys/acs/technical-documentation/variance-tables.html](https://www.census.gov/programs-surveys/acs/technical-documentation/variance-tables.html)

When comparing estimates, test if differences are statistically significant

Algebraically, the significance test can be expressed as follows:

$$\text{If } \left| \frac{\hat{X}_1 - \hat{X}_2}{\sqrt{SE_1^2 + SE_2^2}} \right| > Z_{CL}, \text{ then the difference}$$

between estimates \hat{X}_1 and \hat{X}_2 is statistically significant at the specified confidence level, CL

where \hat{X}_i is estimate i ($i=1,2$)

SE_i is the SE for the estimate i ($i=1,2$)

Z_{CL} is the critical value for the desired confidence level ($=1.645$ for 90 percent, 1.960 for 95 percent, 2.576 for 99 percent).



Download Statistical Testing Tool
[XLSX - 3.5 MB]

[census.gov/programs-surveys/acs/guidance/statistical-testing-tool.html](https://www.census.gov/programs-surveys/acs/guidance/statistical-testing-tool.html)

Use Caution...




- Be careful using estimates based on a small handful of cases. To obtain more cases, use multiyear files or combine geographic areas.
- Extreme values are masked to avoid disclosure. Some variables will be especially affected:
 - Dollar-amount variables (all kinds of income, mortgage, rent, utilities, property taxes, home value, property insurance costs)
 - Number of rooms and bedrooms
 - Age
 - Travel time to work, hours worked
- Previous multi-year PUMS may have dual vintage PUMA codes and more detail is available in the corresponding ReadMe file. Records in the 2012-2016 ACS 5-year PUMS are based on same set of 2010 PUMAs.

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

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ACS Main Page



Census.gov Our Surveys & Programs American Community Survey (ACS)

American Community Survey (ACS)

About the Survey

Respond to the Survey

News & Updates

Data

Guidance for Data Users

Geography & ACS

Technical Documentation

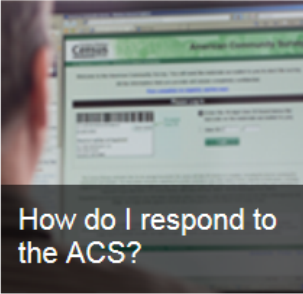
Methodology

Library


Operations and Administration

Contact Us

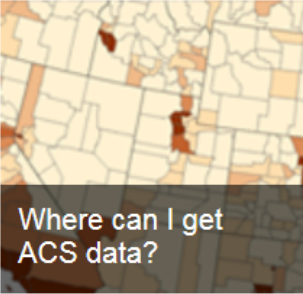
The [American Community Survey](#) (ACS) helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.




How do I respond to the ACS?



Why do you ask each question?



Where can I get ACS data?



Latest

Data

News

Events

Library

census.gov/acs

United States
Census
Bureau

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

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PUMS Technical Documentation

About the Survey	
Respond to the Survey	
News & Updates	
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Guidance for Data Users	
Geography & ACS	
Technical Documentation	
Code Lists, Definitions, and Accuracy	
User Notes	
Errata	
Data Suppression	
Table & Geography Changes	
Summary File Documentation	
PUMS Documentation	About PUMS
Race/Ethnicity and AIAN Release Documentation	Confidentiality of PUMS
Methodology	PUMS Data
Library	PUMS FAQs
Operations and Administration	PUMS File Structure
Contact Us	PUMS on DataFerrett
	PUMS Technical Documentation

- **PUMS ReadMe:** Important information about 2016 geography and variable changes as well as guidance for novice ACS PUMS files users
- **Subjects in the PUMS:** A list of topics included in each of the housing and population record files
- **PUMS Data Dictionary:** Includes variables available for each PUMS release and how each variable is coded
- **PUMS Code Lists:** Detailed codes for variables that contain a large number of coded responses, such as ancestry and occupation.
- **PUMS Top Coded and Bottom Coded Values:** List of variables with responses exceeding a state specific value that are replaced with a predetermined value
- **Accuracy of the PUMS:** A basic explanation of the sample design, estimation methodology, and accuracy of the data
- **PUMS Estimates for User Verification:** A set of Census-created PUMS estimates for data users to verify their methods

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

PUMS Data Dictionary

RT	SERIALNO	SPORDER	AGEP	CIT	SEX
P	20100000000005	1	37	1	1
P	20100000000005	2	36	1	2
P	20100000000005	3	9	1	1
P	20100000000005				
P	20100000000005				
P	20100000000007				
P	20100000000007				
P	20100000000007				
P	20100000000007				
P	20100000000007				

OCCP

4

Occupation recode based on 2010 OCC codes

bbbb .N/A (less than 16 years old/NILF who last worked more
than 5 years ago or never worked)

0010 .MGR-Chief Executives And Legislators

0020 .MGR-General And Operations Managers

0040 .MGR-Advertising And Promotions Managers

0050 .MGR-Marketing And Sales Managers

0060 .MGR-Public Relations And Fundraising Managers

0100 .MGR-Administrative Services Managers

0110 .MGR-Computer And Information Systems Managers

0120 .MGR-Financial Managers

0135 .MGR-Compensation And Benefits Managers

0126 .MGR-Human Resources Managers

[census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html](https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html)

Source Us!

U.S. Census Bureau's [YYYY-YYYY] American Community Survey
[1/5]-year **PUMS** [estimates/statistics/data release]



"As the topic of who bikes in Philly always seems to be a hot topic of conversation on social media, we reached out again for some further analysis of cycling demographics. Econsult researcher Caitlin Furio crunched the numbers for us from the **2008-2012 Public Use Microdata Sample (PUMS) data from the ACS...**"

http://www.philly.com/philly/news/Who_bikes_drives_walks_or_rides_transit_to_work_in_Philly.html



"Homeownership rates are calculated from the **2013 American Community Survey (ACS) Public Use Microdata Sample (PUMS)** and are based on whether the head of household, spouse, or unmarried partner is a veteran. "

http://www.huffingtonpost.com/jed-kolko/where-veterans-live_b_6134066.html



Household- and individual-level data are based on the. **2012 5-Year American Community Survey (ACS) Public Use Microdata Sample (PUMS)**

<http://www.citylab.com/housing/2014/08/where-private-school-enrollment-is-highest-and-lowest-across-the-us/375993/>

census.gov/programs-surveys/acs/contact/partners/source-us.html



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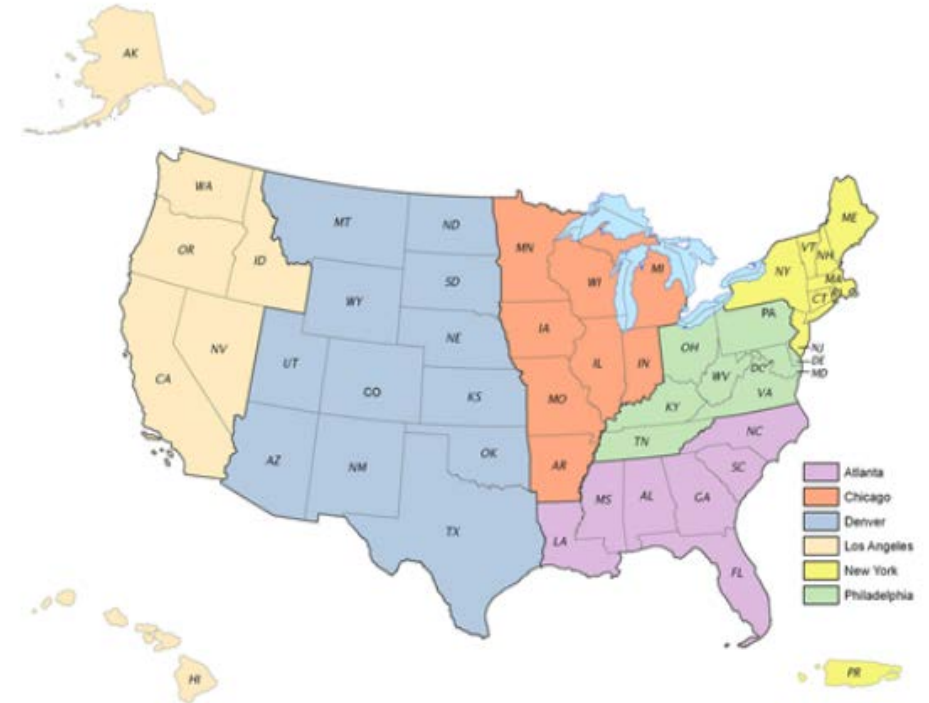


- Purpose:
 - Improve understanding of the value and utility of ACS data.
 - Promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
- Presentations and recordings from past conferences available
- Webinars and special sessions at professional meetings planned
- Users group website and online community

acsdatacommunity.prb.org

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Our regional data staff can help you access local statistics from the ACS or offer training to help build your skills.
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Questions?

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