

**FUTURE OF NURSING™**  
Campaign for Action



Robert Wood Johnson Foundation



## March Diversity/Data Learning Collaborative

Using the American Community Survey to Describe the  
Registered Nurse Workforce  
March 25, 2015

For live audio, you must use your phone and dial (866) 215-3402; passcode: 5343859

## **Winifred Quinn, PhD**

Director, Advocacy & Consumer Affairs  
Center to Champion Nursing in America



# Presenters



Joanne Spetz, PhD  
Professor, Philip R. Lee Institute for Health  
Policy Studies  
Associate Director of Research Strategy,  
Center for the Health Professions  
University of California, San Francisco



Tim Bates, MPP  
Senior Analyst, Philip R. Lee Institute for  
Health Policy Studies  
University of California, San Francisco

- Administered by US Census Bureau
  - Access data through American Fact Finder
- Conducted monthly and data released annually
- Pre-tabulated summary results
  - American Fact Finder

# ACS Overview

American Fact Finder website: <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

The screenshot shows the American FactFinder website. At the top left is the U.S. Department of Commerce logo and the United States Census Bureau logo. The main header features the 'AMERICAN FactFinder' logo with a magnifying glass over the word 'FactFinder'. To the right of the logo are links for 'Feedback', 'FAQs', 'Glossary', and 'Help'. Below the header is a navigation bar with buttons for 'MAIN', 'COMMUNITY FACTS', 'GUIDED SEARCH', 'ADVANCED SEARCH', and 'DOWNLOAD CENTER'. On the far right of the navigation bar are language options: 'English' and 'Español'. The main content area on the left has a 'Community Facts' section with a dropdown arrow, a description: 'Find popular facts (population, income, etc.) and frequently requested data about your community.', and a search input field with a 'GO' button. Below this are three more sections: 'Guided Search', 'Advanced Search', and 'Download Center', each with a right-pointing arrow. On the right side of the main content area is a large photograph of a young woman with a blue headband, smiling and resting her head on her hand, with other students in a classroom visible in the background.

American FactFinder provides access to data about the United States, Puerto Rico and the Island Areas. The data in American FactFinder come from several censuses and surveys. For more information see [Using FactFinder](#) and [What We Provide](#).

## News and Notes

 GET EMAIL UPDATES



October 23, 2014

The 2013 American Community Survey 3-year estimates are now available

...

- 1/3/5-year PUMS estimates
  - Public Use Microdata Sample (PUMS)
- Estimates by geography
  - Nation – state – county – census tract – block group
  - Availability depends on size of population
- Alternative to the NSSRN data
  - NCSBN RN workforce data

# Accessing ACS PUMS Data

American Community Survey website: <http://www.census.gov/acs/www/>

The screenshot shows the American Community Survey website homepage. At the top right, there are links for "U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs" and a search bar. The main navigation bar includes "Topics", "Geography", "Library", "Data", "About the Bureau", and "Newsroom". The page title is "American Community Survey" with a breadcrumb trail "Census.gov > American Community Survey". Below the title is a secondary navigation bar with "Main", "About the Survey", "Guidance for Data Users", "Data & Documentation", "Methodology", and "Library". The main content area features three columns of featured articles: "What is the American Community Survey?", "How do I respond to the survey?", and "How do I get started using ACS data?". On the left, there is a "Question Corner" section and a "Call Us" section. On the right, there is a search bar, "Current Data Profiles", "Website Feedback", and "Data by Topic".

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs

United States™  
Census  
Bureau

Topics  
Population, Economy

Geography  
Maps, Geographic Data

Library  
Infographics, Publications

Data  
Tools, Developers

About the Bureau  
Research, Surveys

Newsroom  
News, Events, Blogs

Census.gov > American Community Survey

## American Community Survey

Main | About the Survey | Guidance for Data Users | Data & Documentation | Methodology | Library

### Question Corner for Survey Respondents

**Q** Is the American Community Survey legitimate?

Yes. The American Community Survey is legitimate. It is a survey conducted by the U.S. Census Bureau. [More.](#)

< Prev | Next >

### Call Us

General 1-800-923-8282  
Questionnaire 1-800-354-7271  
Toll-free 1-877-923-8282

### What is the American Community Survey?

The American Community Survey (ACS) is a **mandatory**, ongoing statistical survey that samples a small percentage of the population every year -- giving communities the information they need to plan investments and services. [Learn more.](#)

### How do I respond to the survey?

Learn ways to **respond to the ACS** or **get help with the survey**. Learn more about how we protect your privacy; why you were selected; why it's important to **participate**; why we ask specific **questions** and more in [About the Survey](#).

### How do I get started using ACS data?

We release new data every year — get the latest on [American FactFinder](#), or get advice on choosing the right **tool or data table** for your needs. Learn more about our annual **data releases** or browse the supporting **documentation**.

SEARCH

### Current Data Profiles

Social, Economic, Housing and Demographic Characteristics

United States ▾ **Go**

### Website Feedback

[Tell us how to make this website better.](#)

### Data by Topic

People

# Accessing ACS PUMS Data

[http://www.census.gov/acs/www/data\\_documentation/public\\_use\\_microdata\\_sample/](http://www.census.gov/acs/www/data_documentation/public_use_microdata_sample/)

Census.gov > American Community Survey > Data & Documentation: Public Use Microdata Sample (PUMS)

## American Community Survey

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- Public Use Microdata Sample (PUMS)**
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  - Confidentiality of PUMS
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  - PUMS Documentation
  - PUMS on DataFerrett
  - PUMS FAQs
- Custom Tabulations

### Public Use Microdata Sample (PUMS)

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The American Community Survey (ACS) Public Use Microdata Sample (PUMS) files are a set of untabulated records about individual people or housing units. The Census Bureau produces the PUMS files so that data users can create custom tables that are not available through pretabulated (or summary) ACS data products.

**Summary products**, such as the tables and profiles accessible via American FactFinder (AFF), show data that have already been tabulated for specific geographic areas.

**PUMS files**, in contrast, include population and housing unit records with individual response information such as relationship, sex, educational attainment, and employment status.

#### Confidentiality of PUMS

The [confidentiality of ACS respondents](#) is protected through a variety of means, ensuring that it is impossible to identify individuals who provide any response, yet making sure the results are still useful. The PUMS records do not contain names, addresses, or any information that can identify a specific housing unit, group quarter, or person.

#### Why Use PUMS?

PUMS files are perfect for people, such as students, who are looking for greater accessibility to inexpensive data for research projects. Social scientists often use the PUMS for regression analysis and modeling applications.

#### What's Available and How Can I Access PUMS?

The Census Bureau produces 1-year, 3-year, and 5-year ACS PUMS files. The 3-year and 5-year PUMS files are multiyear combinations of the 1-year PUMS file with appropriate adjustments to the weights and inflation adjustment factors. The PUMS files are accessible via [American FactFinder](#), the Census Bureau's [FTP site](#), and [DataFerrett](#). Statistical software is needed to use the PUMS files from American FactFinder and the FTP site.



# Accessing ACS PUMS Data

http://www.census.gov/acs/www/data\_documentation/pums\_data/

Census.gov > American Community Survey > Data & Documentation: Public Use Microdata Sample (PUMS) > PUMS Data

## American Community Survey

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### PUMS Data

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

#### PUMS Data 2000 - current

Available through the American FactFinder website:

- 2009-2013 ACS 5-year PUMS
- 2011-2013 ACS 3-year PUMS
- 2013 ACS 1-year PUMS
- 2008-2012 ACS 5-year PUMS
- 2010-2012 ACS 3-year PUMS
- 2012 ACS 1-year PUMS
- 2007-2011 ACS 5-year PUMS
- 2009-2011 ACS 3-year PUMS
- 2011 ACS 1-year PUMS

#### PUMS Data for ACS 1998

- Florida [EXE 328KB]
- Nebraska [EXE 224KB]
- New York [EXE 142KB]
- Ohio [EXE 495KB]
- Oregon [EXE 321KB]
- South Carolina [EXE 372KB]
- Texas [EXE 1.4MB]

#### PUMS Data for ACS 1997

- Florida [EXE 398KB]
- Nebraska [EXE 973KB]

#### Current Data Profiles

Social, Economic, Housing and Demographic Characteristics

United States ▼

#### Website Feedback

Tell us how to make this website better.

#### Data by Topic

##### People

- Age and Sex / Aging
- Ancestry
- Disability
- Commuting to Work

# Sample Count of RNs in ACS PUMS

State	2013 1-year	2011-2013 3-year	State	2013 1-year	2011-2013 3-year
Alabama	596	1,739	Montana	123	325
Alaska	55	146	Nebraska	265	744
Arizona	671	1,881	Nevada	242	657
Arkansas	315	934	New Hampshire	227	656
California	3417	9,804	New Jersey	1,049	3,087
Colorado	543	1,598	New Mexico	155	516
Connecticut	479	1,301	New York	2,233	6,619
Delaware	102	336	North Carolina	1,191	3,374
DC	26	64	North Dakota	86	264
Florida	2,129	6,402	Ohio	1,584	4,492
Georgia	996	2,798	Oklahoma	354	1,085
Hawaii	133	382	Oregon	424	1,246
Idaho	117	407	Pennsylvania	1,687	5,022
Illinois	1,479	4,319	Rhode Island	172	468
Indiana	757	2,333	South Carolina	534	1,638
Iowa	384	1,255	South Dakota	122	363
Kansas	385	1,133	Tennessee	815	2,250
Kentucky	549	1,596	Texas	2,493	6,985
Louisiana	496	1,426	Utah	241	751
Maine	190	570	Vermont	81	261
Maryland	691	2,100	Virginia	989	2,737
Massachusetts	971	2,867	Washington	740	2,196
Michigan	1,189	3,410	West Virginia	208	663
Minnesota	793	2,260	Wisconsin	752	2,209
Missouri	354	1,038	Wyoming	62	172

http://www.census.gov/acs/www/data\_documentation/pums\_data/

Census.gov > American Community Survey > Data & Documentation: Public Use Microdata Sample (PUMS) > PUMS Data

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**SEARCH**

#### Current Data Profiles

Social, Economic, Housing and Demographic Characteristics

United States

#### Website Feedback

Tell us how to make this website better. 

#### Data by Topic

##### People

- Age and Sex / Aging
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- Disability
- Commuting to Work

# Accessing ACS PUMS Data

**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:  
2013 ACS 1-year estimates ✕

[clear all selections and start a new search](#)

### Search using the options below:

#### Topics

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

#### Geographies

(states, counties, places, ...)

#### Race and Ethnic Groups

(race, ancestry, tribe)

#### Industry Codes

(NAICS industry, ...)

#### EEO Occupation Codes

(executives, analysts, ...)

## Search Results: 1-2 of 2 tables and other products match 'Your Selections'

Refine your search results:

topic or table name  state, county or place (optional)

topics  race/ancestry  industries  occupations

Selected:  |  |  |

	ID	Table, File or Document Title	Dataset	About
<input type="checkbox"/>	PUMS-CSV	2013 ACS 1-year Public Use Microdata Samples (PUMS) - CSV format	2013 ACS 1-year estimates	<input type="button" value="i"/>
<input type="checkbox"/>	PUMS-SAS	2013 ACS 1-year Public Use Microdata Samples (PUMS) - SAS format	2013 ACS 1-year estimates	<input type="button" value="i"/>

Selected:  |  |  |

# Accessing ACS PUMS Data

## Advanced Search - Search all data in American FactFinder

1 Advanced Search

2 Table Viewer

Result 1 of 1

PUMS-CSV

2013 ACS 1-year Public Use Microdata Samples (PUMS) - CSV format ⓘ  
2013 ACS 1-year estimates

BACK TO ADVANCED SEARCH

The ACS Public Use Microdata Sample files (PUMS) are a sample of the actual responses to the American Community Survey and its tabulations and can be used for detailed research and analysis. Files have been edited to protect the confidentiality of all individuals at the Microdata Area (PUMA).

For complete PUMS documentation, visit the [ACS PUMS documentation page](#).

All files below are provided in comma separated value (CSV) format. The 2013 ACS 1-year PUMS are also available in [SAS format](#).

<a href="#">United States Population Records</a>	<a href="#">United States Housing Unit Records</a>
<a href="#">Alabama Population Records</a>	<a href="#">Alabama Housing Unit Records</a>
<a href="#">Alaska Population Records</a>	<a href="#">Alaska Housing Unit Records</a>
<a href="#">Arizona Population Records</a>	<a href="#">Arizona Housing Unit Records</a>
<a href="#">Arkansas Population Records</a>	<a href="#">Arkansas Housing Unit Records</a>
<a href="#">California Population Records</a>	<a href="#">California Housing Unit Records</a>
<a href="#">Colorado Population Records</a>	<a href="#">Colorado Housing Unit Records</a>
<a href="#">Connecticut Population Records</a>	<a href="#">Connecticut Housing Unit Records</a>
<a href="#">Delaware Population Records</a>	<a href="#">Delaware Housing Unit Records</a>
<a href="#">District of Columbia Population Records</a>	<a href="#">District of Columbia Housing Unit Records</a>
<a href="#">Florida Population Records</a>	<a href="#">Florida Housing Unit Records</a>
<a href="#">Georgia Population Records</a>	<a href="#">Georgia Housing Unit Records</a>

[http://www.census.gov/acs/www/data\\_documentation/public\\_use\\_microdata\\_sample/](http://www.census.gov/acs/www/data_documentation/public_use_microdata_sample/)

Census.gov > American Community Survey > Data & Documentation: Public Use Microdata Sample (PUMS)

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### Public Use Microdata Sample (PUMS)

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## Public Use Microdata Sample (PUMS):

[http://www.census.gov/acs/www/data\\_documentation/pums\\_documentation/](http://www.census.gov/acs/www/data_documentation/pums_documentation/)

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### PUMS Documentation

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The documentation below is provided in support of the American Community Survey PUMS data.

2013	2012	2011	2010	2009	2008	2007	2006	2005	All
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <h4>Subjects in the PUMS</h4> <p>A list of topics included in each of the housing and population record files</p> <ul style="list-style-type: none"> <li><a href="#">2009-2013 5-year Subjects [PDF 47KB]</a></li> <li><a href="#">2011-2013 3-year Subjects [PDF 73KB]</a></li> <li><a href="#">2013 1-year Subjects [PDF 46KB]</a></li> </ul> <h4>Code Lists</h4> <p>Detailed codes for variables that contain a large number of coded responses, such as ancestry and occupation</p> <ul style="list-style-type: none"> <li><a href="#">2009-2013 5-year Code Lists [XLS 2.2MB]</a></li> <li><a href="#">2011-2013 3-year Code Lists [XLS 7.9MB]</a></li> <li><a href="#">2013 1-year Code Lists [XLS 7.0MB]</a></li> </ul> <h4>PUMS Top Coded and Bottom Coded Values</h4> <p>List of variables with responses exceeding a state-specific value that are replaced with a predetermined value</p> <ul style="list-style-type: none"> <li><a href="#">2013 Top and Bottom Coded Values [PDF 1.3MB]</a></li> </ul> <h4>PUMS Data Dictionary</h4> <p>Includes variables available for each PUMS release and how each variable is coded</p> <ul style="list-style-type: none"> <li><a href="#">2009-2013 5-year Data Dictionary [PDF 516KB]</a></li> <li><a href="#">2009-2013 5-year Data Dictionary [TXT 439KB]</a></li> <li><a href="#">2011-2013 3-year Data Dictionary [PDF 507KB]</a></li> <li><a href="#">2011-2013 3-year Data Dictionary [TXT 377KB]</a></li> </ul> </div> <div style="width: 48%;"> <h4>PUMS ReadMe</h4> <p>Information about working with ACS PUMS files, geographies, and variable changes.</p> <ul style="list-style-type: none"> <li><a href="#">2009-2013 5-year PUMS ReadMe [PDF 99KB]</a></li> <li><a href="#">2011-2013 3-year PUMS ReadMe [PDF 229KB]</a></li> <li><a href="#">2013 1-year PUMS ReadMe [PDF 114KB]</a></li> </ul> <h4>Accuracy of the PUMS</h4> <p>A basic explanation of the sample design, estimation methodology, and accuracy of the data</p> <ul style="list-style-type: none"> <li><a href="#">2009-2013 5-year PUMS Accuracy [PDF 1.2MB]</a></li> <li><a href="#">2011-2013 3-year PUMS Accuracy [PDF 1.4MB]</a></li> <li><a href="#">2013 PUMS Accuracy [PDF 1.8MB]</a></li> </ul> <h4>PUMS Estimates for User Verification:</h4> <p>Estimates for selected characteristics provided to assist data users in determining if they are correctly using the weights to compute estimates</p> <p><small>Note that some of these estimates may be different from the estimates for the same characteristics published in the American FactFinder. For an explanation of these differences, see the Accuracy of the PUMS above.</small></p> <ul style="list-style-type: none"> <li>2009-2013 PUMS Estimates for User Verification                             <ul style="list-style-type: none"> <li>◦ <a href="#">PUMS estimates [SAS 160KB]</a></li> <li>◦ <a href="#">PUMS estimates [LST 180KB]</a></li> <li>◦ <a href="#">PUMS estimates [CSV 89KB]</a></li> </ul> </li> <li>2011-2013 PUMS Estimates for User Verification                             <ul style="list-style-type: none"> <li>◦ <a href="#">PUMS estimates [SAS 160KB]</a></li> <li>◦ <a href="#">PUMS estimates [LST 177KB]</a></li> <li>◦ <a href="#">PUMS estimates [CSV 88KB]</a></li> </ul> </li> </ul> </div> </div>									

## Key variables in the PUMS dataset:

OCCP – census occupation code

SCHL – educational attainment

ESR – employment status recode (employed/unemployed/not in labor force)

FOD1P/FOD2P – field of degree for first and second bachelor's degrees

PWGTP – individual person weight

PWGTP1-PWGTP80 – replicate weights used for calculating variance

AGEP – age of person

SEX – male/female

HISP – Hispanic ethnicity

INDP – census industry code

RAC1P – person's reported race (distinct from Hispanic ethnicity)



- Stata software
- Using a “do”-file
- Creating new variables
- Basic descriptive analysis
  - Average age
  - Educational attainment
  - Racial & ethnic composition

DataFerrett website: <http://dataferrett.census.gov/>

The screenshot shows the DataFerrett website homepage. At the top, there is a navigation menu with links for Home, About Us, Products/Services, Collaboration, and Contact Us. The main content area is divided into two columns. The left column features the DataFerrett logo, a description of the tool, and a section titled 'What you should check before getting started:' which includes a warning about Java version. The right column contains a blue sidebar with the DataFerrett logo and a list of links: DataFerrett Home, Getting Started, About the Datasets, User Resources, FAQs, and a 'Launch DataFerrett' button with a circular arrow icon. A small illustration of a ferret is positioned between the two columns.

Home About Us Products/Services Collaboration Contact Us

## DataFerrett

DataFerrett is a data analysis and extraction tool to customize federal, state, and local data to suit your requirements. Using DataFerrett, you can develop an unlimited array of customized spreadsheets that are as versatile and complex as your usage demands then turn those spreadsheets into graphs and maps without any additional software.

**What you should check before getting started:**

✘ **Java Installed:** [Check your version](#) or [Download the latest version](#)

**WARNING:** You are not running the most current version of Java  
*Oracle highly recommends that you update to the most current version of Java to avoid a potential system security threat.*

To Run DataFerrett please visit:

## DATAFERRETT

- DataFerrett Home
- Getting Started
- About the Datasets
- User Resources
- FAQs
- Launch DataFerrett



**Use the “Raise Hand” option above the chat box  
OR  
Use the “chat” feature to send “everyone” a question.**

You can find the recording and additional webinar resources by going to:  
[www.campaignforaction.org/webinars](http://www.campaignforaction.org/webinars).

# Campaign Resources

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