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
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Center to Champion Nursing in America
Presenters

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University of California, San Francisco

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Senior Analyst, Philip R. Lee Institute for Health Policy Studies
University of California, San Francisco
ACS Overview

- Administered by US Census Bureau
  - Access data through American Fact Finder

- Conducted monthly and data released annually

- Pre-tabulated summary results
  - American Fact Finder
American Fact Finder website: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
ACS Overview

• 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/
Accessing ACS PUMS Data

http://www.census.gov/acs/www/data_documentation/public_use_microdata_sample/

American Community Survey

Public Use Microdata Sample (PUMS)

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.

Confidentiality of PUMS

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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?

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Accessing ACS PUMS Data

http://www.census.gov/acs/www/data_documentation/pums_data/
## Sample Count of RNs in ACS PUMS

<table>
<thead>
<tr>
<th>State</th>
<th>2013 1-year</th>
<th>2011-2013 3-year</th>
<th>State</th>
<th>2013 1-year</th>
<th>2011-2013 3-year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
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<td>1,739</td>
<td>Montana</td>
<td>123</td>
<td>325</td>
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<td>Alaska</td>
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<td>146</td>
<td>Nebraska</td>
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<td>Arizona</td>
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<td>1,881</td>
<td>Nevada</td>
<td>242</td>
<td>657</td>
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<td>New Hampshire</td>
<td>227</td>
<td>656</td>
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<tr>
<td>California</td>
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<td>9,804</td>
<td>New Jersey</td>
<td>1,049</td>
<td>3,087</td>
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<td>1,598</td>
<td>New Mexico</td>
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<td>516</td>
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<td>Connecticut</td>
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<td>1,301</td>
<td>New York</td>
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<td>North Carolina</td>
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<tr>
<td>DC</td>
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<td>64</td>
<td>North Dakota</td>
<td>86</td>
<td>264</td>
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<tr>
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<td>Ohio</td>
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<td>4,492</td>
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<td>2,798</td>
<td>Oklahoma</td>
<td>354</td>
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<tr>
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<td>382</td>
<td>Oregon</td>
<td>424</td>
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<tr>
<td>Idaho</td>
<td>117</td>
<td>407</td>
<td>Pennsylvania</td>
<td>1,687</td>
<td>5,022</td>
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<tr>
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<td>1,479</td>
<td>4,319</td>
<td>Rhode Island</td>
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<tr>
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<td>2,333</td>
<td>South Carolina</td>
<td>534</td>
<td>1,638</td>
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<tr>
<td>Iowa</td>
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<td>122</td>
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<td>Tennessee</td>
<td>815</td>
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<tr>
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<tr>
<td>Maine</td>
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<td>Vermont</td>
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<td>261</td>
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<td>Maryland</td>
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<td>Virginia</td>
<td>989</td>
<td>2,737</td>
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<td>Washington</td>
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<tr>
<td>Michigan</td>
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<td>3,410</td>
<td>West Virginia</td>
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<tr>
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<td>2,260</td>
<td>Wisconsin</td>
<td>752</td>
<td>2,209</td>
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<tr>
<td>Missouri</td>
<td>354</td>
<td>1,038</td>
<td>Wyoming</td>
<td>62</td>
<td>172</td>
</tr>
</tbody>
</table>
http://www.census.gov/acs/www/data_documentation/pums_data/
The ACS Public Use Microdata Sample files (PUMS) are a sample of the actual responses to the American Community Survey and can be used for detailed research and analysis. Files have been edited to protect the confidentiality of all individuals in a 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.

<table>
<thead>
<tr>
<th>United States Population Records</th>
<th>United States Housing Unit Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama Population Records</td>
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</tr>
<tr>
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<tr>
<td>Delaware Population Records</td>
<td>Delaware Housing Unit Records</td>
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<tr>
<td>District of Columbia Population Records</td>
<td>District of Columbia Housing Unit Records</td>
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<tr>
<td>Florida Population Records</td>
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<tr>
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Public Use Microdata Sample (PUMS):
http://www.census.gov/acs/www/data_documentation/pums_documentation/
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)
ACS PUMS Data Demonstration

- Stata software
- Using a “do”-file
- Creating new variables
- Basic descriptive analysis
  - Average age
  - Educational attainment
  - Racial & ethnic composition
Alternative Access to ACS PUMS Data

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

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:

devil

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:
Questions or Comments?

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.