2015 American Community Survey (ACS) 1-Year Estimates

Pre-Embargo Webinar

September 8, 2016

Access the Audio

Toll free number: 1-888-324-9363
Participant passcode: ACS1YEAR

Speakers

Host	**Shelly Hedrick** Special Assistant Communications Directorate
Presenter	**Tyson Weister** Survey Statistician American Community Survey Office

Webinar Outline

- Next Week's Releases
- ACS Basics
- Changes for 2015 ACS 1-year Release
- ACS Website and Statistical Testing Tool
- Keep in Touch
- Q&A
- Using American FactFinder
- Evaluation

Next Week's Releases: Sept 13

Tuesday, September 13th

- 2015 national income, poverty, and health insurance statistics from Current Population Survey (CPS) Annual Social and Economic Supplement (ASEC)

- Supplemental Poverty Measure: 2015

- State level health insurance statistics from 2015 ACS

- 2015 ACS 1-year embargo begins at noon EDT

http://www.census.gov/newsroom/press-releases/2016/cb16-101.html

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Next Week's Releases: Sept 15

Thursday, September 15th

- 2015 ACS 1-year public release
- ACS Briefs
    - Poverty: 2014 and 2015
    - Household Income: 2015

http://www.census.gov/newsroom/press-releases/2016/cb16-101.html

ACS Basics: The Survey

- Ongoing survey that samples about 3.5 million addresses per year

- Designed to produce critical information that was previously collected in the decennial census

- Fully implemented in 2005

- Collects data on a wide range of demographic, social, economic, and housing characteristics

- Publishes annual estimates for small geographic areas and population groups

ACS Content

Social

Educational Attainment
Marital Status
Veteran
Disability
Ancestry
Citizenship
Fertility
Grandparents
Language Spoken at Home
Migration
Place of Birth
School Enrollment
Year of Entry

Demographic

Sex
Age
Race
Hispanic Origin
Relationship

Economic

Employment Status
Income
Commuting
Health Insurance
Class of Worker
Food Stamps (SNAP)
Hours/Week, Weeks/Year
Industry & Occupation

Housing
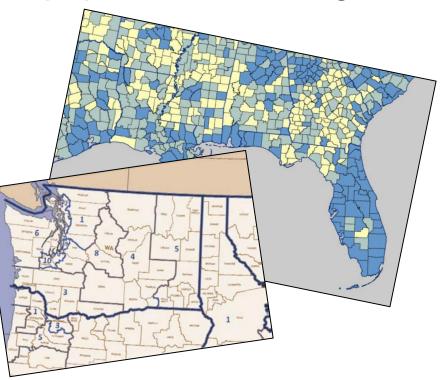
Tenure (Own/Rent)
Home Value
Costs (Mortgage, Taxes, Insurance)
Computer & Internet Use
Heating Fuel
Occupancy Status
Plumbing/Kitchen Facilities
Structure Type
Utilities
Vehicles
Year Built/ Year Moved In

35+ Topics ➡ **1000+ Tables** ➡ **11 Billion Estimates**

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ACS Basics: 1-Year Geography

- Approximately 7,800 geographic areas

- Geographic areas of 65K+ total population including
  - Nation
  - All States, DC, and Puerto Rico
  - All Metropolitan Areas
  - All Congressional Districts (114th Congress)
  - All Counties and Places of 65,000+

census.gov/programs-surveys/acs/geography-acs/areas-published.html

ACS Basics: 1-Year Data Products

- ## Data Profiles
  (Social, Economic, Housing, Demographic)

- ## Comparison Profiles
  (2011 to 2015)

- ## Selected Population Profiles
  (Race, Hispanic Origin, Ancestry, Place of Birth)

- ## Ranking Tables (89)

- ## Geographic Comparison Tables (96)

- ## Subject Tables (81)

- ## Detailed Tables (1,306)

- ## Supplemental Tables (59) – Oct 2016

Subject	2014 Estimate	2013 Estimate	2014 - 2013 Statistical Significance
EMPLOYMENT STATUS			
Population 16 years and over	253,588,947	250,835,999	*
In labor force	63.3%	63.6%	*
Civilian labor force	62.9%	63.2%	*
Employed	58.4%	57.9%	*
Unemployed	4.5%	5.3%	*
Armed Forces	0.4%	0.4%	
Not in labor force	36.7%	36.4%	*

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 STRUCTURE BUILT		
2010 or later	1.6%	+/-0.1
2000 to 2009	14.8%	+/-0.1
1980 to 1999	27.9%	+/-0.1
1960 to 1979	26.7%	+/-0.1
1940 to 1959	16.2%	+/-0.1
1939 or earlier	12.7%	+/-0.1

ACS New Tables

- **B09021**: Living arrangements by age for adults 18 years and over

- **B25031:** Median gross rent by number of bedrooms for renter-occupied housing units

- **Subject Tables:**
  - Computer & Internet Use (S2801 & S2802)
  - Health Insurance (S2703 & S2704)
  - Bachelor's Field of Degree (S1502)

Table ID	Line Number	Description
B25031		**MEDIAN GROSS RENT BY BEDROOMS**
B25031		*Universe: Renter-occupied housing units paying cash rent*
B25031	0.5	Median gross rent --
B25031	1	Total:
B25031	2	No bedroom
B25031	3	1 bedroom
B25031	4	2 bedrooms
B25031	5	3 bedrooms
B25031	6	4 bedrooms
B25031	7	5 or more bedrooms
B09021	14	Other nonrelatives
B09021	15	35 to 64 years:
B09021	16	Lives alone
B09021	17	Householder living with spouse or spouse of householder
B09021	18	Householder living with unmarried partner or unmarried partner of householder
B09021	19	Child of householder
B09021	20	Other relatives
B09021	21	Other nonrelatives
B09021	22	65 years and over:
B09021	23	Lives alone
B09021	24	Householder living with spouse or spouse of householder
B09021	25	Householder living with unmarried partner or unmarried partner of householder
B09021	26	Child of householder
B09021	27	Other relatives
B09021	28	Other nonrelatives

www2.census.gov/programs-surveys/acs/tech_docs/table_shells/2014/

ACS Noteworthy Data Product Modifications

Housing:

- Year-based distributions updated:
  - Year Structure Built was expanded to "2014 or later"
  - Year Moved Into Unit was expanded to "2015 or later"
- Upper distribution categories were expanded for several monetary variables:
  - Gross rent ($3,500 or more)
  - Housing value ($2 million or more)
  - Selected monthly owner costs (SMOC)
    - With a mortgage ($4,000 or more)
    - Without a mortgage ($1,500 or more)
  - Monthly Housing Costs ($3,000 or more)

Foreign Born:

- B05002: Lists regions of birth for each foreign born citizenship category

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.2015.html

ACS Subject Table Improvements

- Expanded:
  - Topic content
  - Data format (totals now accompany percentages)
- The following Subject Tables were improved:
  - Education (S1401, S1501)
  - Language (S1601, S1602, S1603)
  - Poverty (S1701, S1702)
  - Disability (S1810)
  - SNAP/Food Stamps (S2201)
  - Veterans (S2101)
  - Labor Force (S2301, S2302, S2303)
  - Industry and Occupation (S2401-S2404, S2408, S2409, S2411-S2414, S2418, S2419)
  - Health Insurance (S2701)

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.2015.html

2014 Table S1501 Educational Attainment

| Subject | United States | | | | |
| | Total | | Male | | Fem |
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Population 18 to 24 years	31,554,009	+/-39,123	16,172,368	+/-22,179	15,381,641
Less than high school graduate	13.9%	+/-0.1	15.9%	+/-0.1	11.8%
High school graduate (includes equivalency)	30.2%	+/-0.1	33.2%	+/-0.2	27.1%
Some college or associate's degree	45.8%	+/-0.2	42.7%	+/-0.2	49.1%
Bachelor's degree or higher	10.1%	+/-0.1	8.2%	+/-0.1	12.0%
Population 25 years and over	213,725,624	+/-64,850	103,101,814	+/-39,086	110,623,810
Less than 9th grade	5.6%	+/-0.1	5.8%	+/-0.1	5.5%
9th to 12th grade, no diploma	7.5%	+/-0.1	8.0%	+/-0.1	7.0%
High school graduate (includes equivalency)	27.7%	+/-0.1	28.5%	+/-0.1	27.0%
Some college, no degree	21.0%	+/-0.1	20.6%	+/-0.1	21.3%
Associate's degree	8.2%	+/-0.1	7.2%	+/-0.1	9.0%
Bachelor's degree	18.7%	+/-0.1	18.5%	+/-0.1	18.8%
Graduate or professional degree	11.4%	+/-0.1	11.4%	+/-0.1	11.4%
Percent high school graduate or higher	86.9%	+/-0.1	86.2%	+/-0.1	87.5%
Percent bachelor's degree or higher	30.1%	+/-0.1	29.9%	+/-0.1	30.2%
Population 25 to 34 years	43,323,099	+/-33,262	21,836,161	+/-24,342	21,486,938

2015 Table S1501 Educational Attainment

Subject	United States									
	Total		Percent		Males		Percent Males		Fer	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	
RACE AND HISPANIC OR LATINO ORIGIN BY EDUCATIONAL ATTAINMENT										
White alone										
High school graduate or higher										
Bachelor's degree or higher										
Black alone										
High school graduate or higher										
Bachelor's degree or higher										
American Indian or Alaska Native alone										
High school graduate or higher										
Bachelor's degree										

2015 ACS 1-Year Supplemental Estimates Tables

- 59 Detailed Tables for geographies with populations of 20,000+

- Available for same geographic summary levels as 1-year dataset

- Planned release is October 20th

- Access via American FactFinder and Census Bureau's Application Programming Interface

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Comparison of Tables: Travel Time to Work

2014 ACS 1-Year Estimates

	Jefferson Parish, Louisiana	
	Estimate	**Margin of Error**
Total:	201,514	+/-4,182
Less than 5 minutes	3,092	+/-816
5 to 9 minutes	13,671	+/-1,877
10 to 14 minutes	27,539	+/-2,817
15 to 19 minutes	38,258	+/-2,849
20 to 24 minutes	41,499	+/-2,742
25 to 29 minutes	13,485	+/-2,390
30 to 34 minutes	32,001	+/-3,724
35 to 39 minutes	6,708	+/-1,574
40 to 44 minutes	5,613	+/-1,604
45 to 59 minutes	10,356	+/-1,545
60 to 89 minutes	5,886	+/-1,351
90 or more minutes	3,406	+/-1,121

2014 ACS 1-Year Supplemental Estimates

	Plaquemines Parish, Louisiana	
	Estimate	**Margin of Error**
Total:	11,496	+/-1,124
Less than 10 minutes	2,537	+/-719
10 to 29 minutes	6,020	+/-1,198
30 to 59 minutes	2,345	+/-744
60 minutes or more	594	+/-455

ACS Geography Update

- **Merged cities in Georgia and Minnesota**

  Helena, Georgia
  McRae, Georgia   →   McRae-Helena, Georgia

  Thompson, Minnesota
  Carlton, Minnesota   Carlton, Minnesota
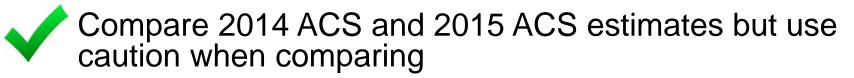
- **Places that no longer exist**
  - Islandia city, Florida
  - Millville city, Iowa

- **Boundary changes due to annexation, disincorporation, and geocoding updates**

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

Guidance for ACS Users

✅ Compare across geographies and population subgroups using 2015 ACS

✅ Compare 2014 ACS and 2015 ACS estimates but use caution when comparing
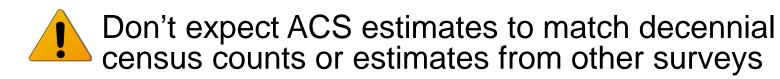
- Income, Earnings, and Poverty

✅ Compare percentages, means, medians, and rates instead of totals whenever possible

⚠️ Don't expect ACS estimates to match decennial census counts or estimates from other surveys

census.gov/programs-surveys/acs/guidance/comparing-acs-data/2015.html

CPS vs. ACS

- 2015 income, poverty, and health insurance estimates from the CPS will be released Tuesday, September 13th

- Estimates from CPS and ACS differ for a number of reasons, but trends over time tend to be similar across the surveys

- Recommendations:
  - National estimates $\longrightarrow$ CPS
  - Subnational estimates $\longrightarrow$ ACS

blogs.census.gov/

ACS Website

census.gov/acs

2015 Data Release Information

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

Data Tables & Tools

American Community Survey

About the Survey

Respond to the Survey

News & Updates

Data

Data Tables & Tools

Data Profiles

Narrative Profiles

Subject Tables

Ranking Tables

American FactFinder

Statistical Testing Tool

Easy Stats

My Congressional District

Data via FTP

Summary File Data

PUMS Data

Variance Replicate Tables

Race/Ethnicity & AIAN Data

Custom Tables

Guidance for Data Users

Ranking Tables

Show 30 entries   Filter by keyword:

Table Title	Topic	Table ID
Percent Of The Total Population Who Are White Alone	Race	R0201
Percent Of The Total Population Who Are Black Or African American Alone	Race	R0202
Percent Of The Total Population Who Are American Indian And Alaska Native Alone	Race	R0203
Percent Of The Total Population Who Are Asian Alone	Race	R0204
Percent Of The Total Population Who Are Native Hawaiian And Other Pacific Islander Alone	Race	R0205
Percent Of The Total Population Who Are Some Other Race Alone	Race	R0206
Percent Of The Total Population Who Are Two Or More Races	Race	R0207
Percent Of The Total Population Who Are Two Or More Races Excluding Some Other Race	Race	R0208
Percent Of The Total Population Who Are White Alone, Not Hispanic Or Latino	Race	R0209
Percent Of People Who Are Foreign Born	Foreign Born; Citizenship; Year of Entry; Nativity	R0501
Percent Of Foreign-Born People Born In Europe	Foreign Born; Citizenship; Year of Entry; Nativity	R0502
Percent Of Foreign-Born People Born In Asia	Foreign Born; Citizenship; Year of Entry; Nativity	R0503

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

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 Tool Should I Use?

When to Use 1-year, 3-year, or 5-year Estimates

Handbooks

Comparing ACS Data

Training Presentations

Geography & ACS

Technical Documentation

Methodology

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Operations and Administration

Contact Us

Comparing 2015 American Community Survey Data

Tweet   Share

Learn more about making the following comparisons:

- Comparing the 2015 ACS estimates with Census 2000 (second column below)
- Comparing the 2015 ACS 1-year with the 2014 ACS 1-year estimates (third column below)
- Comparing the 2015 ACS estimates with 2010 Census (fourth column below)

Subject Area[*]	2015 ACS (2015 ACS 1-Year and 2011-2015 ACS 5-Year) with Census 2000	2015 ACS 1-Year with 2014 ACS 1-Year	2015 ACS (2015 ACS 1-Year and 2011-2015 ACS 5-Year) with 2010 Census

Expand All

▶ **Age and Sex (01)**

▶ **Race (02)**

▶ **Hispanic Origin (03)**

▶ **Ancestry (04)**

▶ **Foreign Born; Citizenship; Year of Entry; Nativity (05)**

▶ **Place of Birth (06)**

▶ **Residence 1 year ago; Migration (07)**

census.gov/programs-surveys/acs/guidance/comparing-acs-data/2015.html

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Documentation

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

Statistical Testing Tool

census.gov/programs-surveys/acs/data/data-tables-and-tools/statistical-testing-tool.html

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Overview of Tool

Statistical Testing for Two Estimates

Statistical Testing Tool

Statistical Testing for Two Estimates

Purpose

This spreadsheet determines whether there is statistical evidence to conclude that two estimates are different from each another.

Results

Yes	Estimates are statistically different.
No	Estimates are NOT statistically different (or are statistically tied).
N/A	Statistical testing is not applicable for one or both of the estimates.

Overview   Instructions   Statistical Testing for Multiple Estimates   Worked Example   Contact Us

	Label	First Estimate	First Margin of Error (MOE)	Second Estimate	Second Margin of Error (MOE)	Statistically Different?
1	Total	73,523	+/-2,477	75,815	+/-2,136	No
2	No vehicle available	652	+/-559	693	+/-425	No
3	1 vehicle available	9,633	+/-1,851	11,197	+/-1,726	No
4	2 vehicles available	28,469	+/-2,638	28,501	+/-3,007	No
5	3 vehicles available	22,660	+/-2,488	17,161	+/-2,564	Yes
6	4 vehicles available	7,272	+/-2,074	11,672	+/-2,848	Yes
7	5 or more vehicles available	4,837	+/-2,036	6,591	+/-2,037	No

Statistical Testing for Multiple Estimates

Application Programming Interface (API)

census.gov/developers

Future ACS Data Releases

2015 ACS 1-Year Supplemental Estimates (Geographies of 20,000+)

- Thursday, October 20:   Public Release

2011-2015 ACS 5-Year Estimates (All geographic areas)

- Tuesday, December 6:   Embargo Begins
- Thursday, December 8:   Public Release

Public Use Microdata Sample Files (PUMS)

- Thursday, October 20:   2015 1-Year PUMS File
- January 19, 2017:   2011-2015 5-Year PUMS File

2011-2015 Variance Replicate Estimates

- January 19, 2017:   Public Release

2015 Puerto Rico Community Survey 1-year and 5-year Spanish Release
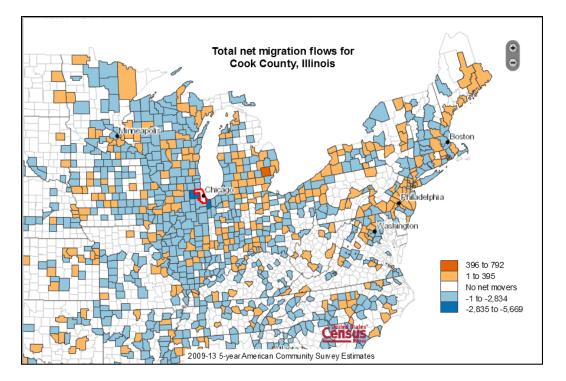
- January 19, 2017:   Public Release

census.gov/programs-surveys/acs/news/data-releases/2015/release-schedule.html

ACS Product Releases

- Voting-Age Population Profiles

- Census Flows Mapper: 2010-2014 ACS 5-year data

flowsmapper.geo.census.gov/

Source Us!

U.S. Census Bureau's

2015 American Community Survey

America's Ongoing Love Affair With the Car
CityLab - Aug 17, 2015
But the latest report on commuting habits from the U.S. Census Bureau ... is based on data from the 2013 **American Community Survey** (ACS).

Free high school equivalency testing in Rutherford County
Wgnsradio - 5 hours ago
According to the **American Community Survey**, approximately 700,000 Tennesseans have less than a high school diploma. National figures ...

Helping relatives raise children
Newnan Times-Herald - Sep 2, 2015
... United States, according to a 2013 **American Community Survey**, nearly 2.7 million grandparents are primarily responsible for grandchildren.

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More information on the American Community Survey: http://www.census.gov/acs

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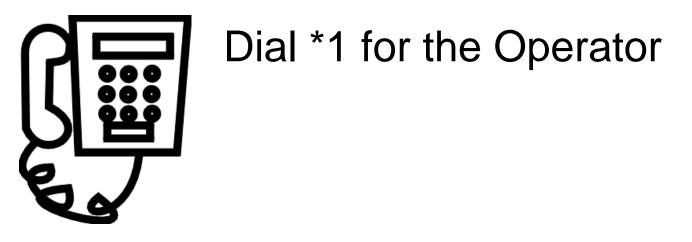
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Questions?

Dial *1 for the Operator

After Questions:

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AMERICAN COMMUNITY SURVEY DATA USERS GROUP
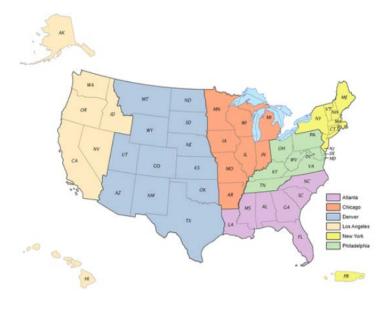
- Purpose of the ACS Data Users Group (DUG) is to improve understanding of the value and utility of ACS data and to promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
- Webinars and special sessions at professional meetings planned
- Next data users conference planned for 2017
- Users group website and online community

acsdatausers.org
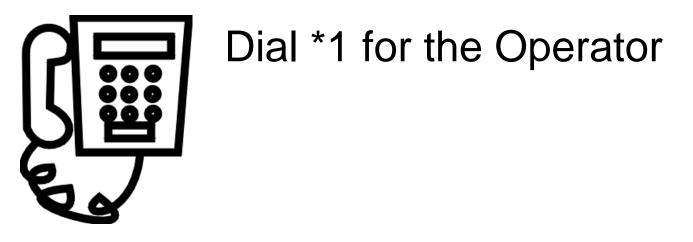
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- Assistance Near You!
  Our regional data staff can help you access local statistics from the ACS or offer training to help build your skills.

- Contact us at the following address: clmso.ddb.questions@census.gov

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Using American FactFinder

factfinder.census.gov

Advanced Search Page

Selecting 2015 ACS 1-Year Estimates

1. Expand Topics

2. Expand Dataset

3. Select 2015 ACS 1-year estimates
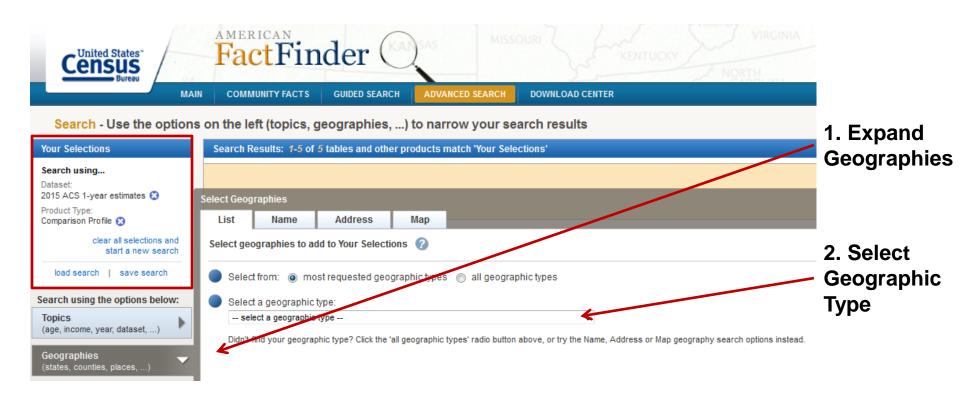
Selecting Product Type

Selecting Geography

1. Expand Geographies

2. Select Geographic Type

Select Geography Type

Finding Your Geography of Interest

AFF Search Results

Comparison Profile

Detailed Table

Create a Map

Ranking Table

Geographic Comparison Table
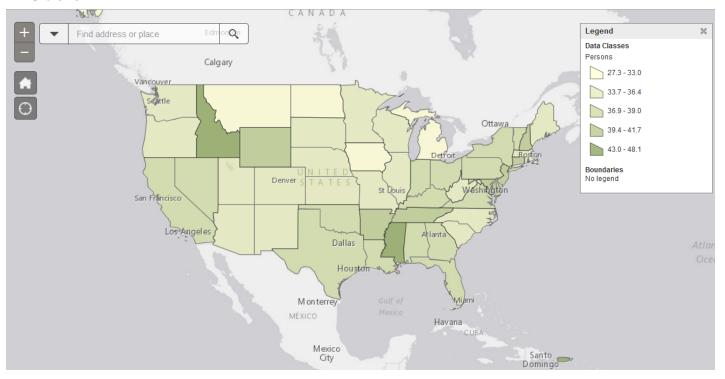
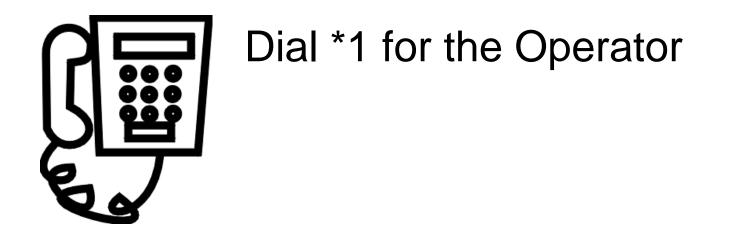|		
GCT0801	MEAN TRAVEL TIME TO WORK OF WORKERS 16 YEARS AND OVER WHO DID NOT WORK AT HOME (MINUTES) - United States -- Congressional District by State; and for Puerto Rico Universe: Workers 16 years and over who did not work at home ⓘ 2014 American Community Survey 1-Year Estimates	

Geographic Area	Minute	Margin of Error
Illinois	28.6	+/-0.2
Congressional District 1 (114th Congress)	34.9	+/-0.6
Congressional District 2 (114th Congress)	32.4	+/-0.7
Congressional District 3 (114th Congress)	33.5	+/-0.7
Congressional District 4 (114th Congress)	34.2	+/-0.6
Congressional District 5 (114th Congress)	33.4	+/-0.6
Congressional District 6 (114th Congress)	31.0	+/-0.7
Congressional District 7 (114th Congress)	32.0	+/-0.7
Congressional District 8 (114th Congress)	27.2	+/-0.5
Congressional District 9 (114th Congress)	32.5	+/-0.6
Congressional District 10 (114th Congress)	29.0	+/-0.7
Congressional District 11 (114th Congress)	30.3	+/-0.7
Congressional District 12 (114th Congress)	23.9	+/-0.6
Congressional District 13 (114th Congress)	20.7	+/-0.4
Congressional District 14 (114th Congress)	32.8	+/-0.7
Congressional District 15 (114th Congress)	21.1	+/-0.5
Congressional District 16 (114th Congress)	23.8	+/-0.6
Congressional District 17 (114th Congress)	21.1	+/-0.6
Congressional District 18 (114th Congress)	19.9	+/-0.4

Questions?

Dial *1 for the Operator

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Evaluation

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