

U.S. Department of Commerce

United States™  
**Census**  
Bureau

AMERICAN  
**FactFinder**



1

# CENSUS TRAINING

**MONTANA DEPARTMENT OF COMMERCE  
RESEARCH & INFORMATION SERVICES (RIS)  
JUNE 7, 2016, MT LEGISLATIVE AUDIT DIVISION**

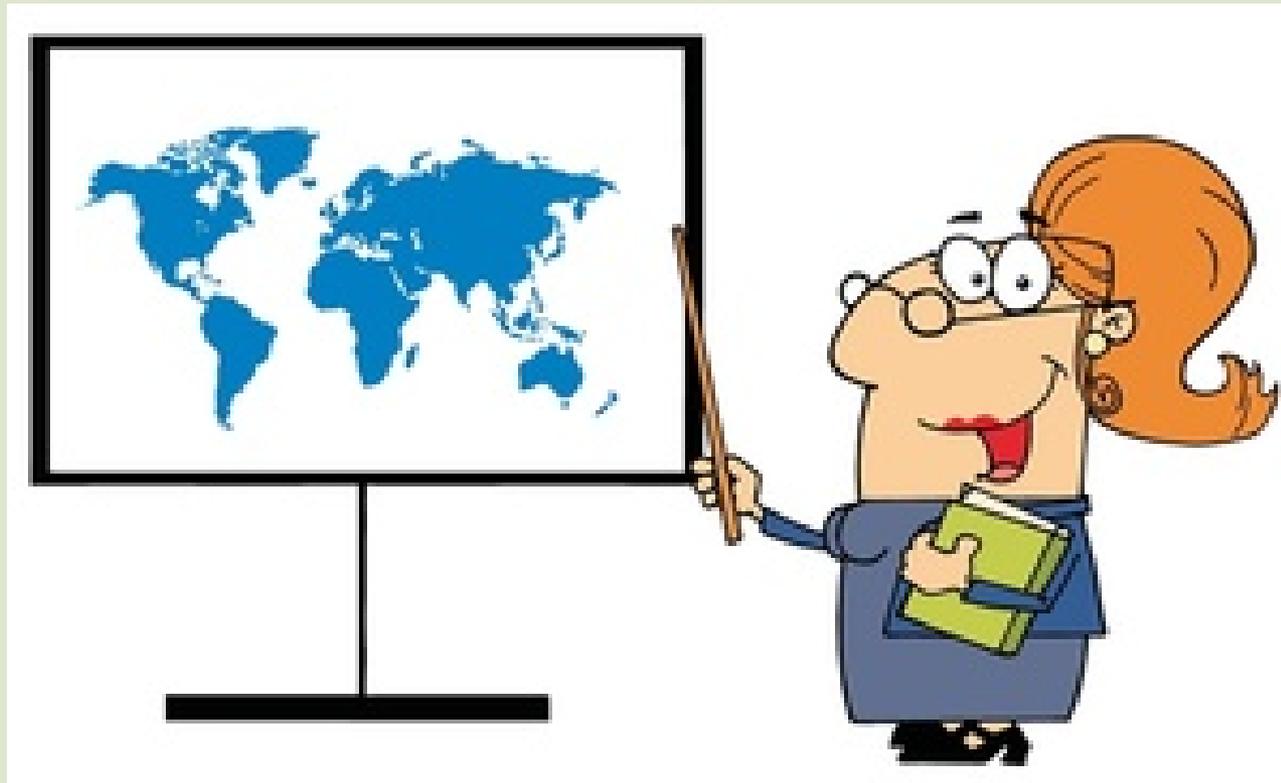
# Presentation Outline

2

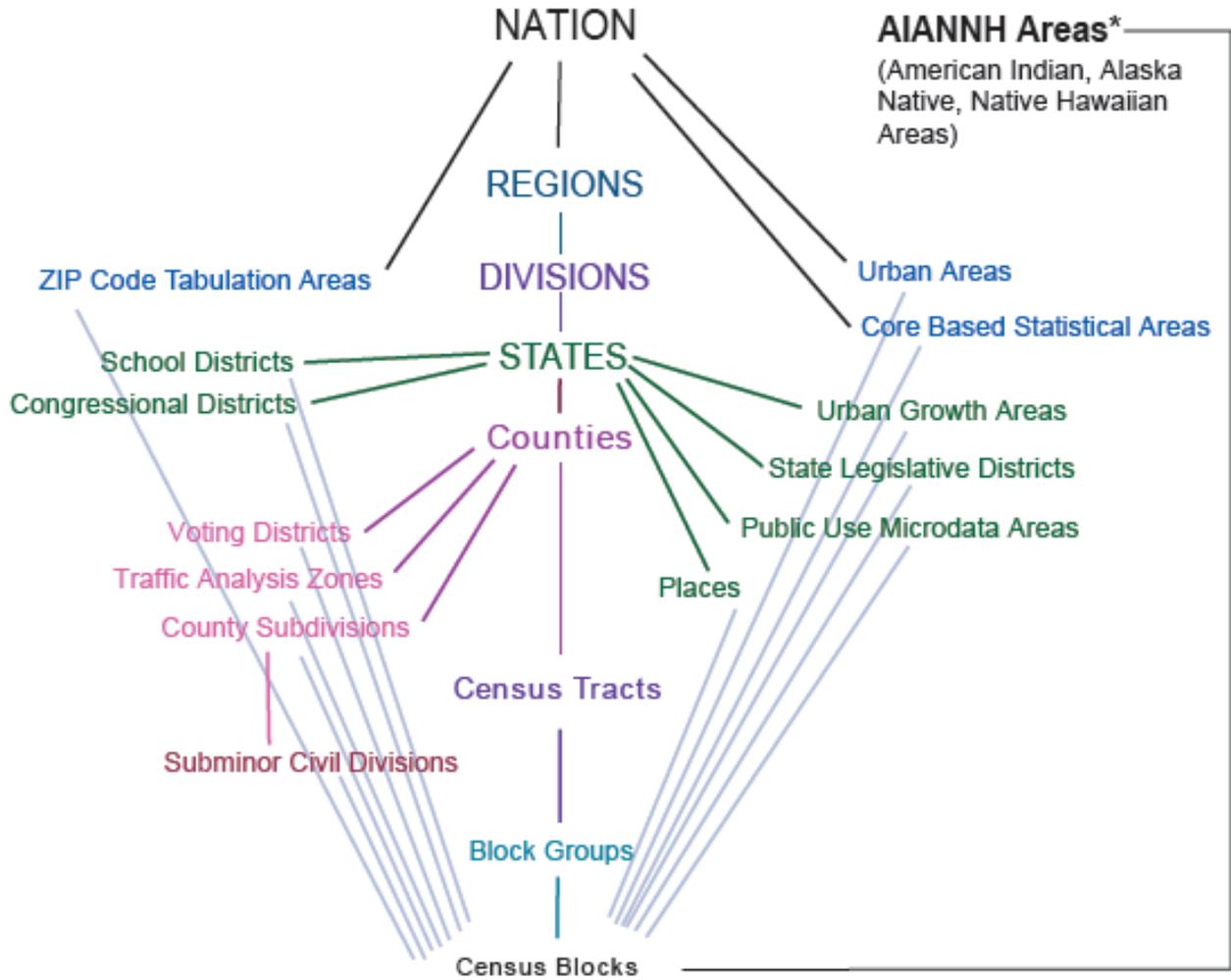
- ❑ **CENSUS GEOGRAPHY**
- ❑ **CENSUS DATA SETS**
  - ❑ Decennial
  - ❑ American Community Survey
  - ❑ Population Estimate
  - ❑ County Business Patterns
  - ❑ Trade
- ❑ **AMERICAN FACTFINDER SEARCH TOOL & SOME HANDS ON EXAMPLES**
- ❑ **RESEARCH & INFORMATION SERVICES ASSISTANCE**

# A Review of Census Geography

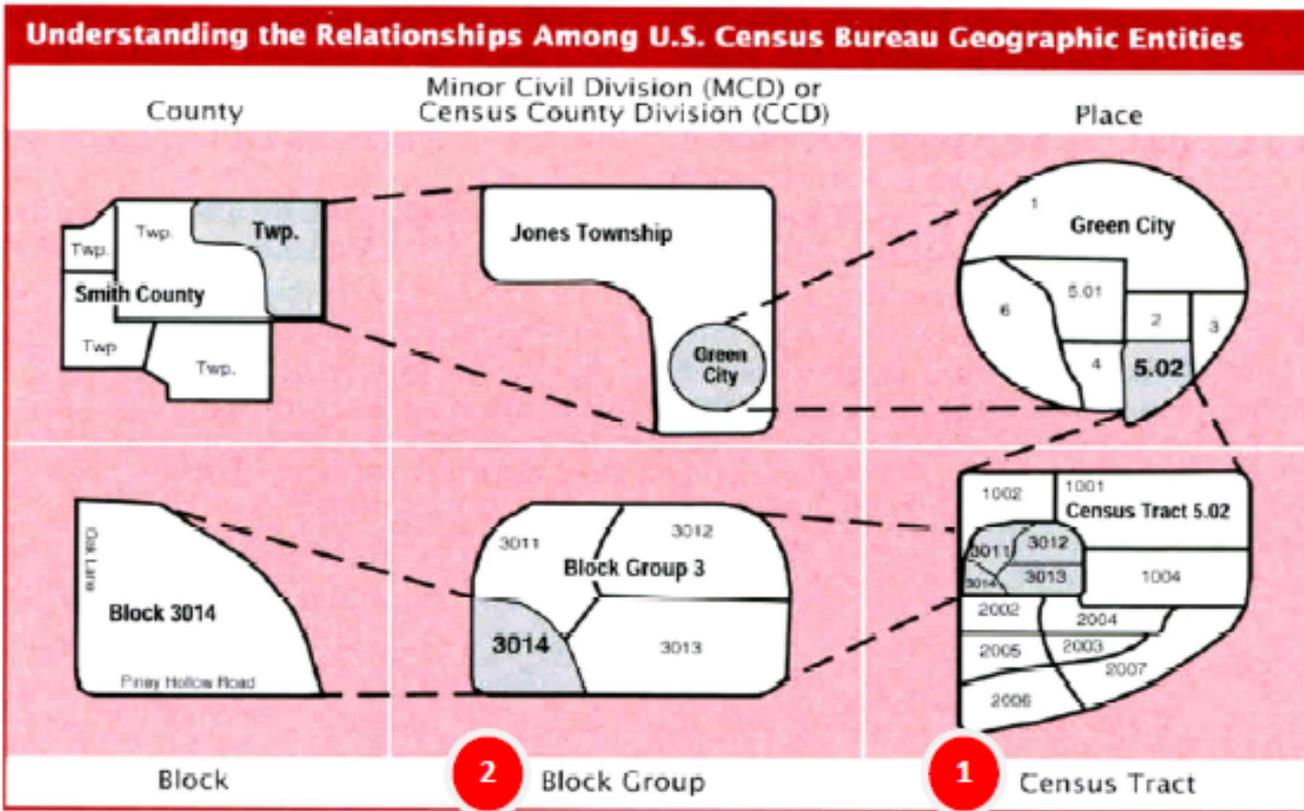
3



# Standard Hierarchy of Census Geographic Entities

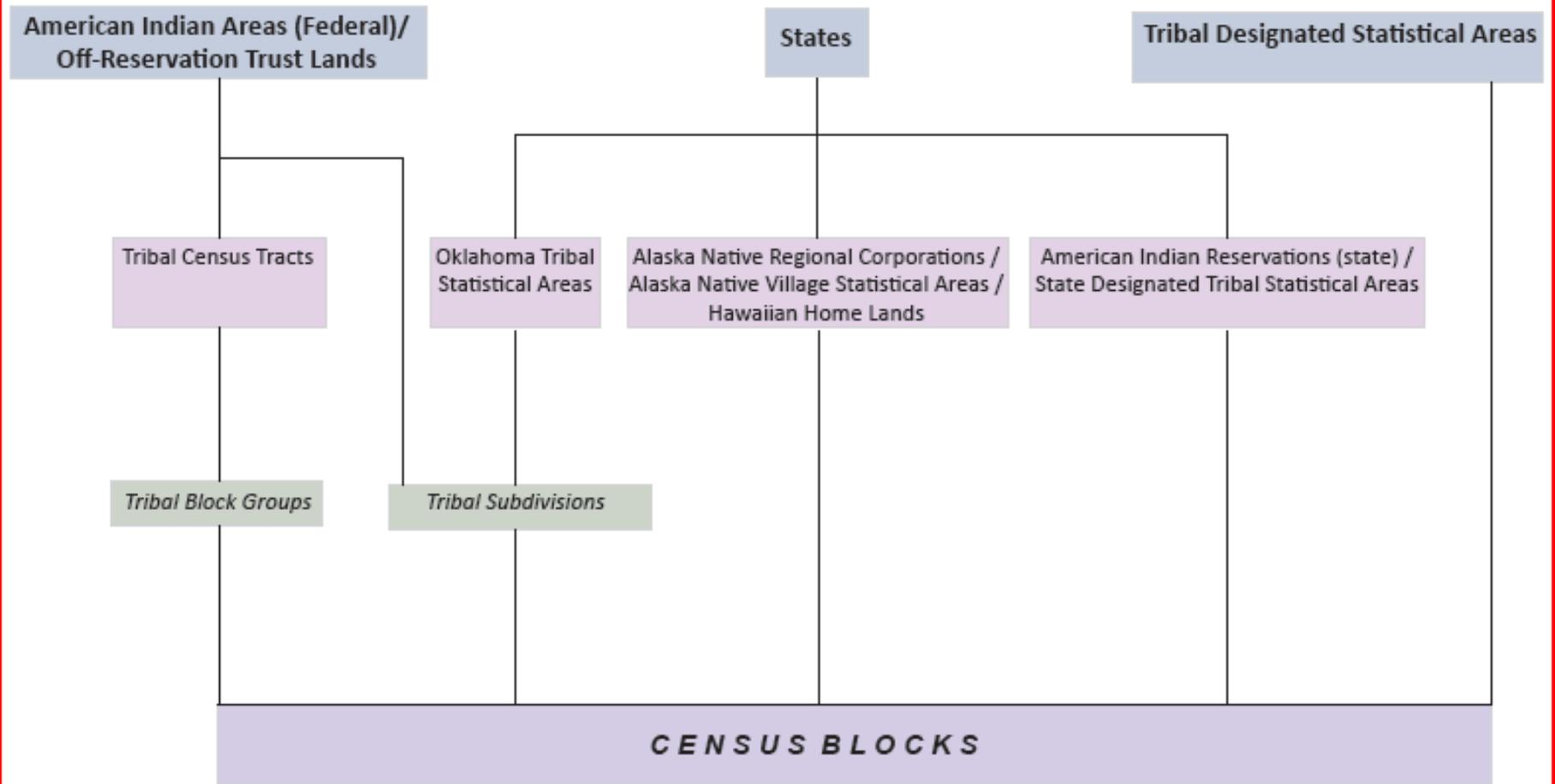


## Census Small-Area Geography



1. **Census Tracts** are small, relatively permanent statistical subdivisions and generally have a population of 1,500 to 8,000 (optimum **4,000**).
2. **Block Groups** are subdivisions of a census tract and generally have a population of 300 to 4,000 (optimum **1,500**).

## Hierarchy of American Indian, Alaska Native, and Native Hawaiian Areas



# Update to Geographic Boundaries

7

## IMPORTANT POINT!

Make sure you know to which year the geographic boundaries are tied

**Legally Defined Geographic Areas:** These are boundary changes submitted through the annual Boundary Annexation Survey (BAS) from the official source for the geographic area – Example a County Clerk submitting a boundary changes for the legal governments (incorporated places and minor civil divisions) within the County

**Statistical Areas:** boundary changes are mostly associated with updates from each Decennial Census and don't have a local legal tie – Example a Census Tract or Block

NOTE: Multi-year series are adjusted for new boundaries. For example, the 2015 ACS 5-year estimates (2011-2015) released in 2016 will be re-tabulated for the new boundaries for ALL years covered. This will be the first series to use the state legislative geographic boundaries that were approved in 2013 by the redistricting committee.

[https://www.census.gov/programs-surveys/acs/geography-acs/geography-boundaries-by-year/2014.html#par\\_textimage\\_o](https://www.census.gov/programs-surveys/acs/geography-acs/geography-boundaries-by-year/2014.html#par_textimage_o)

## Example ACS 5 Year Data - Current Boundary Source for Various Available Geographies

Area	Source of Boundaries	Data Collection Time Period	Data Available
State and Counties	January 2014 BAS	Estimates for 2011-2015	2016
Congressional Districts	114 Congress	Estimates for 2011-2015	2016
Incorporated Place or Consolidated City (e.g. Billings / Butte-Silver Bow)	January 2014 BAS	Estimates for 2011-2015	2016
Census Designated Place (e.g. East Missoula)	2010 Decennial	Estimates for 2011-2015	2016
7 MT Reservations	January 2014 BAS	Estimates for 2011-2015	2016
State Legislative Districts (Upper and Lower Chambers)	Redistricting Commission Report 10/2013	Estimates for 2011-2015	2016 All years revised to the new boundaries
School Districts	2013-2014 School District Review Program	Estimates for 2011-2015	2016
Census Tract, Block Group, Block, Designated Area or Division	2010 Decennial Census	Estimates for 2011-2015	2016
5 Digit Zip Code (ZCTA)	2010 Decennial Census	Estimates for 2011-2015	2016

Note – all years for the ACS 5 year revised to new boundaries

# A Review of Census / Other Data Sets

9



# American FactFinder (AFF) Toolkit

10

## DATA(MOST USED SOURCES)

- DECENNIAL CENSUS
- AMERICAN COMMUNITY SURVEY (ACS)
- POPULATION ESTIMATES
- ECONOMIC CENSUS AND ANNUAL ECONOMIC SURVEY

## TOOLS

- TABLES
- DOWNLOADS
- MAPS

# Frequently Accessed Data that is not in AFF

- **INTERNATIONAL TRADE DATA**

<http://www.census.gov/foreign-trade/data/index.html>

- **CURRENT POPULATION SURVEY (CPS):** sponsored jointly by the U.S. Census Bureau and the U.S. Bureau of Labor Statistics (BLS), is the primary source of labor force statistics for the population of the United States.

<http://www.bls.gov/data/>

- **QUARTERLY CENSUS OF EMPLOYMENT AND WAGES (QCEW)** program publishes a quarterly count of employment and wages reported by employers covering 98 percent of U.S. jobs, available at the county, MSA, state and national levels by industry.

<http://www.bls.gov/cew/>

**MT Department of Labor & Industry Staff Are the Experts on Labor Data!**

# 2010 Census Versus ACS

12

## 2010 Census

100% Coverage  
Ask Everyone in  
U.S. and  
Territories

Answers: How  
Many & Where  
People live in U.S.?

### Point in Time

April 1, 2010 –  
Done once every 10  
years

Complete Count of  
People & Housing  
Units

## ACS\*

Sample Data  
11,955 Montana  
households in  
surveyed last year

Answers How Do  
People Live in the  
U.S.?

### Period of Time

1 & 5 year spans -  
**New data every  
year**

Characteristics of  
People  
Income, Poverty,  
Education, etc.

\* Similar  
Questions to  
2000 Long  
Form Survey

# DATA AVAILABILITY

13

- 2010 Census: Every Geographic Level
  - Data Collected As of A Point in Time – April 1
- American Community Survey (ACS) 1, & 5 Year Estimate Files
  - ACS 1 Year Estimate (Data Collected Over One Year)
    - ✦ State & Population Areas 65,000+ - ACS Annual Estimate
    - ✦ In MT, Large Counties and Metropolitan Areas
  - ACS 5 Year Estimate (Data Collected Over Five Years)
    - ✦ Population Areas Below 20,000
    - ✦ In MT, most Counties and Places are only available in the ACS 5-Year Estimates

# Compiled 2010 Census Questions

14

1. **How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?**
2. **Were there any additional people staying here April 1, 2010 that you did not include in Question 1?**
3. **Is this house, apartment, or mobile home: owned with mortgage, owned without mortgage, rented, occupied without rent?** Asked since 1890. Homeownership rates serve as an indicator of the nation's economy.
4. **Please provide information for each person living here. What is Person 1's sex? What is Person 1's age and Date of Birth?** Asked since 1800.
5. **Is Person 1 of Hispanic, Latino or Spanish origin?** Asked since 1970.
6. **What is Person 1's race?** Asked since 1790. Race is key to implementing many federal laws and is needed to monitor compliance with the Voting Rights Act and the Civil Rights Act.

Remember: **All responses given to the Census Bureau are confidential** and no individual data is ever shared. All Census Bureau employees take the oath of nondisclosure and are sworn for life to protect the confidentiality of the data. The penalty for unlawful disclosure is a fine of up to \$250,000 or imprisonment of up to 5 years, or both.

# ACS Questions

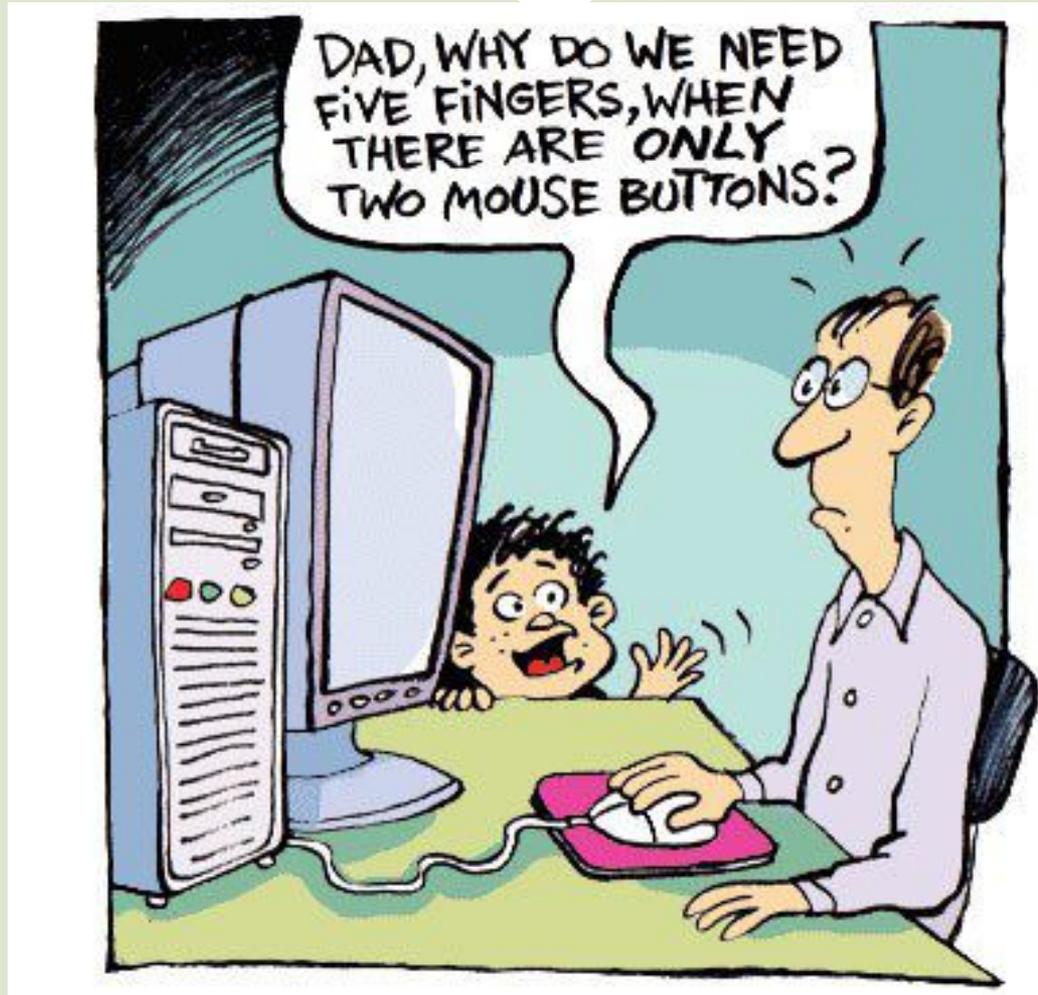
15

- **Population**: Age, Sex, Hispanic Origin, Race, Relationship
- **Social**: Ancestry, Citizenship Status, Disability, Educational Attainment, Fertility, Grandparents as Caregivers, Language Spoken at Home, Marital History, Marital Status, Period of Military Service, Place of Birth, School Enrollment, Residence 1 Year Ago, Undergraduate Field of Degree, Veteran Status, VA Service Connected Disability Rating, Year of Entry to US
- **Financial**: Business or Medical Office On Property, Cost of Utilities, Condominium Fee, Insurance, Mobile Home Costs, Mortgage, Real Estate Taxes, Rent, Tenure, Value of Property
- **Physical**: Acreage, Agricultural Sales, Bedrooms, Computer/Internet Use, Housing Heating Fuel, Kitchen /Plumbing Facilities, Telephone Service Available, Rooms, Units in Structure, Vehicles Available, Year Moved into Unit, Year Structure Built
- **Economic**: Class of Worker, Food Stamps Benefit, Health Insurance Coverage, Income, Vehicles Available, Work Status Last Year, Industry, Journey to Work, Occupation, Place of Work, Labor Force Status

WHY DO THEY ASK THAT? [www.census.gov/acs/www/about the survey/questions and why we ask/](http://www.census.gov/acs/www/about_the_survey/questions_and_why_we_ask/)

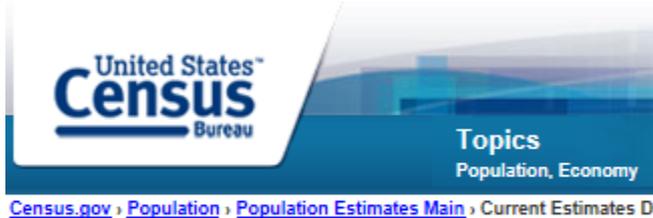
# That's a Lot Of Questions

16



# Population Estimates

17



<https://www.census.gov/popest/data/>

## Population Estimates

### Current Estimates Data

The population and housing unit estimates are released on a flow basis throughout each year. Each new series of data (called vintages) incorporates the latest **administrative record data, geographic boundaries, and methodology**. Therefore, the **entire time series of estimates beginning with the most recent decennial census is revised annually, and estimates from different vintages of data may not be consistent across geography and characteristics detail**. When multiple vintages of data are available, the most recent vintage is the preferred data

# Census Works with States to Produce the Estimates



The Census Bureau begins the process of preparing population estimates by updating population information from the most recent census with information found in the annual administrative records of Federal and state agencies. The Federal agencies provide tax records, Medicare records and some vital statistics information. The FSCPE agencies supply vital statistics, and information about group quarters like college dorms or prisons. The Census Bureau and FSCPE members combine census and administrative records information to produce current population estimates consistent with the last decennial census counts. The Census estimates are sent to the FSCPE agencies for review and comment.

FSCPE Contact for MT: Kyle Morrill.....(406) 243-2731  
Senior Economist/Director of Forecasting,  
Bureau of Business and Economic Research, University of Montana

# Economic Census

19



[Preview forms](#)

## The Economic Census

- Covers all non-farm businesses
- Only source on industry revenues (and other measures like sales, shipments, productivity of employees) that are comparable across industry and geographic areas / and over time
- Includes the number of locations, employment, payroll, total revenue, and product sales for every industry—plus over **150 detailed statistics** for various industries.
- Basis of Input-Output models created by Bureau of Economic Analysis for GDP

**Caveat** – although all businesses are covered the 2012 Census is most recent available .

# Economic Census – Data is in AFF

Program	Employees	Total Sales	Establishment Size by # of Employees	Establishments with Paid Employees	Annual Payroll	Legal Form of Organization
Annual Survey of Manufactures						
Commodity Flow Survey						
County & ZIP Code Business Patterns						
Economic Census						
Economic Census of Island Areas						
Nonemployer Statistics						
Survey of Business Owners						

# Take a Break



See you in 10 minutes

# American FactFinder Advanced Search Tool

22

## MAIN SCREEN

GO TO <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>



United States Census Bureau

AMERICAN FactFinder

Feedback FAQs Glossary Help

MAIN COMMUNITY FACTS GUIDED SEARCH ADVANCED SEARCH DOWNLOAD CENTER

English Español

▼ **Community Facts**  
Find popular facts (population, income, etc.) and frequently requested data about your community.  
Enter a state, county, city, town, or zip code:

▶ **Guided Search**

▶ **Advanced Search**

▶ **Download Center**

### Popular Tables

#### Population and Housing

- Annual Population Estimates (2015 PEP, PEPANNRES)
- Demographic and Housing Estimates (2014 ACS, DP05)
- General Housing Characteristics (2014 ACS, DP04)
- General Demographic Characteristics (2010 Census, DP-1)

#### Poverty and Income

- General Economic Characteristics (2014 ACS, DP03)

#### Age, Race, Sex and Education

- Selected Social Characteristics (2014 ACS, DP02)
- Educational Attainment (2014 ACS, S1501)

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



December 03, 2015

The 2010-2014 American Community Survey 5-year estimates are now available....



# American FactFinder Advanced Search Tool

23

## This Class Will Focus On Advanced Search



U.S. Department of Commerce  
United States<sup>™</sup>  
**Census**  
Bureau

AMERICAN  
**FactFinder**

MAIN COMMUNITY FACTS GUIDED SEARCH **ADVANCED SEARCH** DOWNLOAD OPTIONS

▼ **Community Facts**

Find popular facts (population, income, etc.) and frequently requested data about your community.

Enter a state, county, city, town, or zip code:

# American FactFinder Advanced Search Tool

24

## Click on Advanced Search to Open Screen

The screenshot shows the American FactFinder website's advanced search interface. At the top, there is a navigation bar with the United States Census Bureau logo and the text 'AMERICAN FactFinder'. A magnifying glass icon is positioned over the word 'FactFinder'. To the right of the navigation bar are links for 'Feedback', 'FAQs', 'Glossary', and 'Help'. Below the navigation bar is a dark blue menu with several options: 'MAIN', 'COMMUNITY FACTS', 'GUIDED SEARCH', 'ADVANCED SEARCH' (highlighted in orange), and 'DOWNLOAD CENTER'. The main content area has a heading: 'Search - Use the options on the left (topics, geographies, ...) to narrow your search results'. On the left side, there is a 'Your Selections' section which is currently empty, with 'load search' and 'save search' links. Below this is a section titled 'Search using the options below:' with five expandable categories: 'Topics (age, income, year, dataset, ...)', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Groups (race, ancestry, tribe)', 'Industry Codes (NAICS industry, ...)', and 'EEO Occupation Codes (executives, analysts, ...)'. The main search area contains the instruction: 'To search for tables and other files in American FactFinder:'. This is followed by a numbered step 1: 'Enter search terms and an optional geography and click GO'. Below this is a search form with two input fields: 'topic or table name' and 'state, county or place (optional)'. A 'GO' button and a help icon (?) are to the right of the second field. Below the input fields are four radio button options: 'topics' (selected), 'race/ancestry', 'industries', and 'occupations'. Below the search form is the text '-- or --' and the instruction: 'Select from Topics, Race and Ethnic Groups, Industry Codes, EEO Occupation Codes.' This is followed by a list of two bullet points: '• these are added to 'Your Selections'' and '• the Search Results are updated'. This is followed by a numbered step 2: 'Next, select Geographies (states, counties, cities, towns, etc.)'. This is followed by another list of two bullet points: '• these are added to 'Your Selections'' and '• the Search Results are updated'. Finally, there is a numbered step 3: 'Select one or more Search Results and click View'.

**Your Selections**  
'Your Selections' is empty  
[load search](#) | [save 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, ...)

**To search for tables and other files in American FactFinder:**

- 1 Enter search terms and an optional geography and click GO

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

topics    race/ancestry    industries    occupations

-- or --

Select from **Topics**, **Race and Ethnic Groups**, **Industry Codes**, **EEO Occupation Codes**.

- these are added to 'Your Selections'
- the Search Results are updated

- 2 Next, select **Geographies** (states, counties, cities, towns, etc.)

- these are added to 'Your Selections'
- the Search Results are updated

- 3 Select one or more Search Results and click **View**

# American FactFinder Advanced Search Tool

25

## THREE MAIN SCREEN AREAS:

### 1. Selection Box

MAIN COMMUNITY FACTS GO

Search - Use the options on the left

Your Selections

Your Selections' is empty

### 2. Topic and Geography Search Boxes

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

topics race/ancestry industries occupations

### 3. Filter Bars: Topics, Geographies, Race & Ethnic Groups

Also: Industry Codes (Econ Census Only) & EEO Codes (EEO Tabulation Only)

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, ...)

# American FactFinder Advanced Search Tool

26

## OVERVIEW OF GEOGRAPHIC BAR

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, ...)



# American FactFinder Advanced Search Tool

Click on  
Geography  
Bar

The screenshot shows the American FactFinder Advanced Search Tool interface. On the left, there is a sidebar with several categories: 'Your Selections' (empty), '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, ...), and 'EEO Occupation Codes' (executives, analysts, ...). The 'Geographies' bar is highlighted, and a dropdown menu is open, showing a list of geographic types. The dropdown menu has a search box and a 'GO' button. The list includes: -- select a geographic type --, United States - 010, Region - 020, Division - 030, State - 040, County - 050, County Subdivision - 060, Place/Remainder (or part) - 070, Census Tract (or part) - 080, Urban/Rural - 085, Block Group (or part) - 091, Urban/Rural - 090, Subminor Civil Division - 067, Estimates Universe County Subdivision - 061, Estimates Universe Place/Balance (or part) - 071, Estate (US Virgin Islands only) - 06V, Place/Remainder (or part) - 07V, Place - 150, Estimates Universe Place/Balance (or part) - 157, Congressional District (or part) - 512, State Legislative District (Upper Chamber) (or part) - 840, State Legislative District (Lower Chamber) (or part) - 841, Voting District/Remainder - 700, County Subdivision (or part) - 710, Place/Remainder (or part) - 720, Census Tract (or part) - 730, Block Group (or part) - 740, Subminor Civil Division (or part) - 715, Census Tract (or part) - 735, and Block Group (or part) - 745.

# American FactFinder Advanced Search Tool

28

## OVERVIEW OF TOPICS BAR

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, ...)



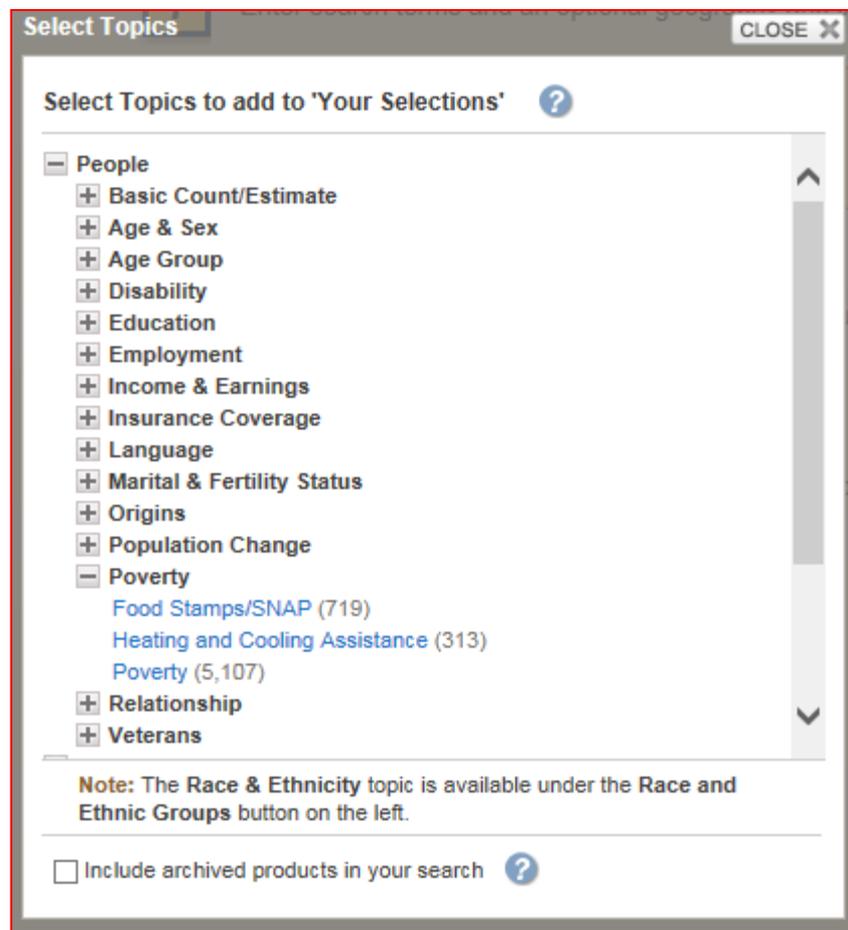
# American FactFinder Advanced Search Tool

Click on Topics Bar

The screenshot displays the American FactFinder Advanced Search Tool interface. On the left, a sidebar contains a 'Your Selections' section (currently empty) and a 'Search using the options below:' section with expandable categories: Topics (age, income, year, dataset, ...), Geographies (states, counties, places, ...), Race and Ethnic Groups (race, ancestry, tribe), and Industry Codes (NAICS industry, ...). A red box highlights this sidebar. In the main area, a search bar is visible with a yellow arrow pointing to it. Below the search bar, a 'Select Topics' dialog box is open, titled 'Select Topics to add to "Your Selections"'. The dialog lists several topic categories with plus signs: People, Housing, Business and Industry, Governments, Year, Product Type, Program, and Dataset. At the bottom of the dialog, there is a checkbox for 'Include archived products in your search'. A 'CLOSE X' button is located in the top right corner of the dialog. The background text reads 'To search for tables and other files in American Fac'.

# American FactFinder Advanced Search Tool

Click on + to Expand a People Topic



# American FactFinder Advanced Search Tool

Click on + to Expand the Housing Topics

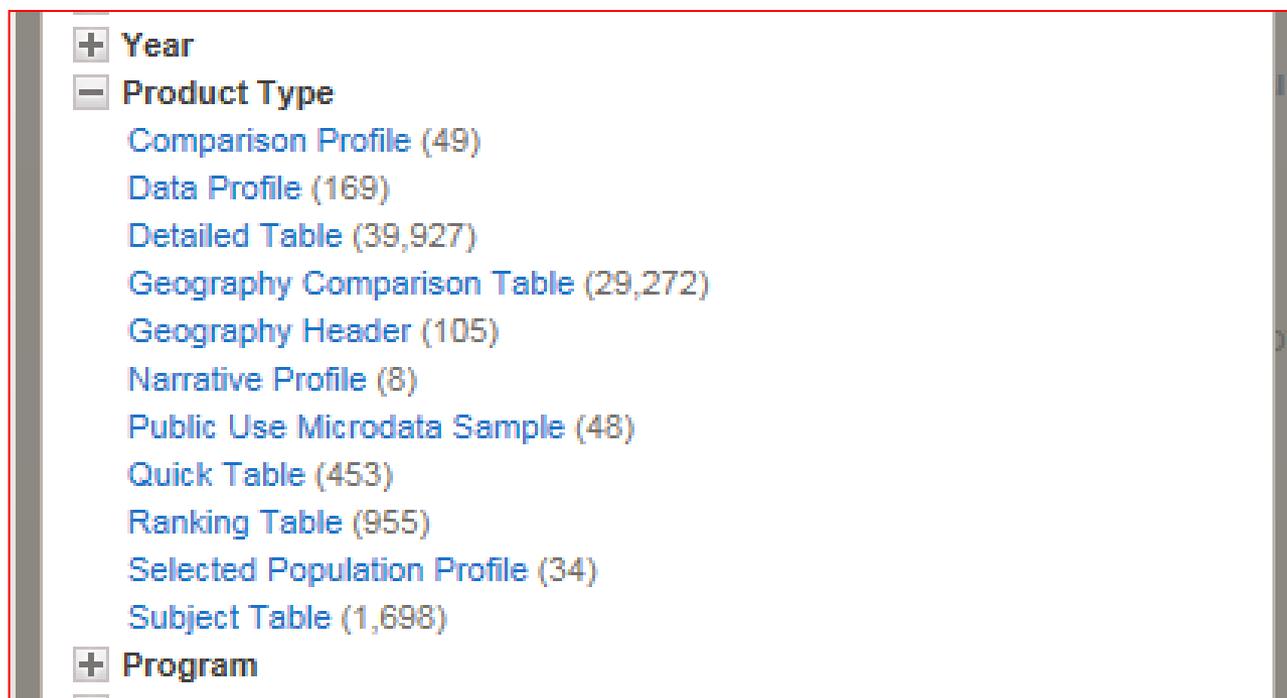
Select Topics

Select Topics to add to 'Your Selections' ?

- + People
- Housing
  - + Basic Count/Estimate
  - + Financial Characteristic
  - + Occupancy Characteristic
  - + Physical Characteristic
  - + Health and Safety Characteristic
- + Business and Industry

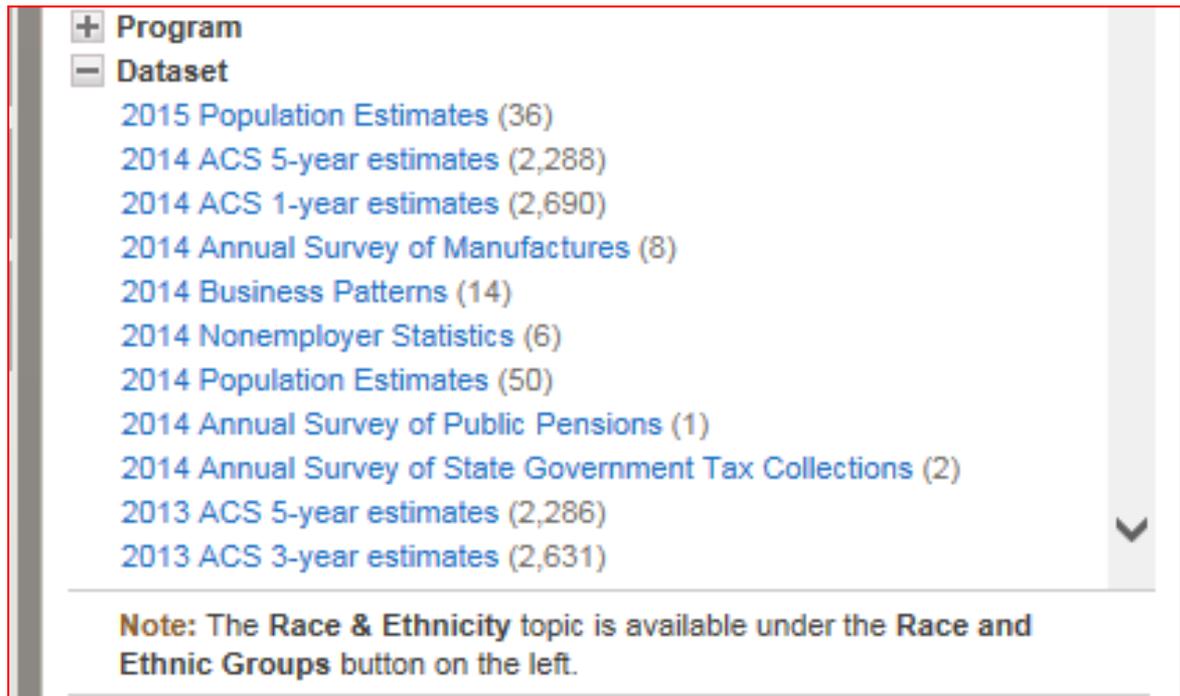
# American FactFinder Advanced Search Tool

Click on + to Expand Product Type



# American FactFinder Advanced Search Tool

Lastly, Skip Down and Click on + to Expand Dataset

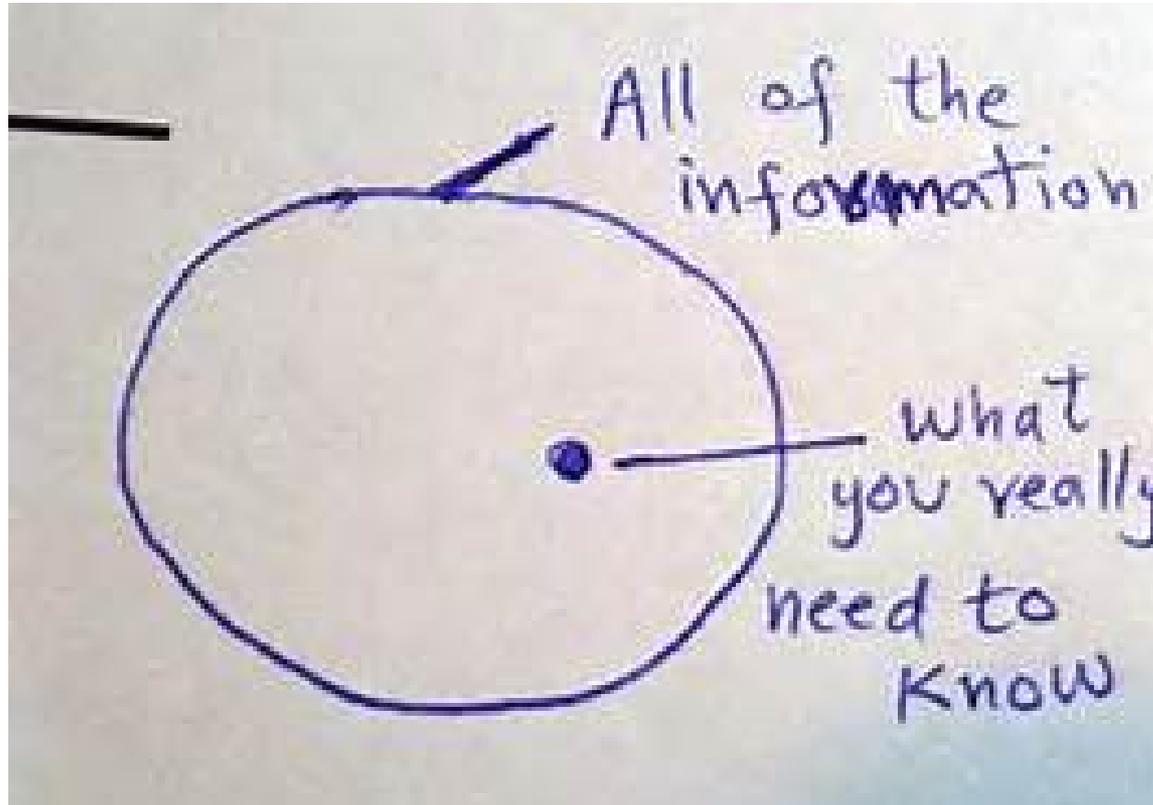
A screenshot of the American FactFinder dataset list. The list is titled '+ Program' and '- Dataset'. It contains a list of datasets with their respective counts in parentheses. A vertical scrollbar is visible on the right side of the list. A note at the bottom states: 'Note: The Race & Ethnicity topic is available under the Race and Ethnic Groups button on the left.'

- + Program
- Dataset
  - 2015 Population Estimates (36)
  - 2014 ACS 5-year estimates (2,288)
  - 2014 ACS 1-year estimates (2,690)
  - 2014 Annual Survey of Manufactures (8)
  - 2014 Business Patterns (14)
  - 2014 Nonemployer Statistics (6)
  - 2014 Population Estimates (50)
  - 2014 Annual Survey of Public Pensions (1)
  - 2014 Annual Survey of State Government Tax Collections (2)
  - 2013 ACS 5-year estimates (2,286)
  - 2013 ACS 3-year estimates (2,631)

**Note:** The Race & Ethnicity topic is available under the Race and Ethnic Groups button on the left.

# HOW TO FIND THE INFORMATION YOU WANT

34



# American FactFinder Advanced Search Tool

Lets Try It: First, Choose Montana Using the Geographies Bar  
STEP ONE: Use Pull Down Menu to Find Geographic Type: STATE

The screenshot displays the American FactFinder Advanced Search Tool interface. On the left, a sidebar titled "Your Selections" shows that it is currently empty. Below this, there are four search options: "Topics", "Geographies", "Race and Ethnic Groups", and "Industry Codes". The "Geographies" option is selected, indicated by a downward arrow. The main area of the tool features a search bar with the instruction "Enter search terms and an optional geography and click GO". Below the search bar, a "Select Geographies" dialog box is open. This dialog box has four tabs: "List", "Name", "Address", and "Map". The "List" tab is active, showing a section titled "Select geographies to add to Your Selections" with a help icon. Underneath, there are two radio buttons: "most requested geographic types" (which is selected) and "all geographic types". Below the radio buttons is a dropdown menu labeled "Select a geographic type:" with the text "-- select a geographic type --". At the bottom of the dialog box, there is a note: "Didn't find your geographic type? Click the 'all geographic types' radio button above, or try the Na options instead."

# American FactFinder Advanced Search Tool

Step TWO: Highlight Montana then hit ADD TO YOUR SELECTION

The screenshot displays the American FactFinder Advanced Search Tool interface. On the left, a sidebar contains navigation options: 'Your Selections' (empty), '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, ...), and 'EEO Occupation Codes' (executives, analysts, ...). The main area is titled 'To search for tables and other files in' and features a search input field. A 'Select Geographies' dialog box is open, showing a table with columns 'List', 'Name', 'Address', and 'Map'. The dialog prompts the user to 'Select geographies to add to Your Selections' and offers options to 'Select from: most requested geographic types' and 'Select a geographic type: State - 040'. A list of states is displayed, with 'Montana' highlighted. An 'ADD TO YOUR SELECTIONS' button is at the bottom of the dialog.

**Your Selections**  
Your Selections' is empty

**To search for tables and other files in**

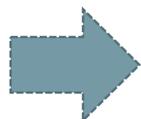
Select Geographies

List	Name	Address	Map
	Select geographies to add to Your Selections ?		
	Select from: <input checked="" type="radio"/> most requested geographic types		
	Select a geographic type: State - 040		
	Select one or more geographic areas and click Add		
	Louisiana		
	Maine		
	Maryland		
	Massachusetts		
	Michigan		
	Minnesota		
	Mississippi		
	Missouri		
	Montana		
	Nebraska		
	Nevada		

**ADD TO YOUR SELECTIONS**

# American FactFinder Advanced Search Tool

## SELECTION BOX



The screenshot displays the American FactFinder Advanced Search Tool interface. On the left, the 'Your Selections' sidebar is visible, showing a search for 'State: Montana'. Below this, there are sections for 'Search using the options below:' with expandable categories: 'Topics (age, income, year, dataset, ...)', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Groups (race, ancestry, tribe)', 'Industry Codes (NAICS industry, ...)', and 'EEO Occupation Codes (executives, analysts, ...)'. A blue arrow points from the 'SELECTION BOX' text to the 'Your Selections' sidebar.

On the right, the 'Search Results' section shows '1-25 of 34,452 tables and other products match "You...". Below this, the 'Select Geographies' dialog box is open. It has tabs for 'List', 'Name', 'Address', and 'Map'. The 'List' tab is active, showing a search for 'State - 040'. The dialog includes a 'Select from:' section with radio buttons for 'most requested geographic types' (selected) and 'all geographic types'. Below this, there is a 'Select a geographic type:' section with a dropdown menu showing 'State - 040'. At the bottom, there is a section for 'Select one or more geographic areas and click Add to Your Selections' with a list of states: 'All States within United States', 'Alabama', 'Alaska', 'Arizona', 'Arkansas', 'California', 'Colorado', 'Connecticut', 'Delaware', and 'District of Columbia'.

# American FactFinder Advanced Search Tool

Close Geographies Window: 46,309 Tables of Information

**Your Selections**

Search using...  
 State  
 Montana ✕

clear all selections and start a new search

load search | save 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: 1-25 of 46,309 tables and other products match "Your Selections"** per page

Refine your search results:   **GO** ?

topics  race/ancestry  industries  occupations

**Selected:** View | Download | Compare | Clear All | Reset Sort ?

Show results from:

	ID	Table, File or Document Title	Dataset
<input type="checkbox"/>	PEPANNHU	Annual Estimates of Housing Units for the United States, Regions, Divisions, States, and Counties: April 1, 2010 to July 1, 2015	2015 Population Estimates
<input type="checkbox"/>	PEPANNRES	Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2015	2015 Population Estimates
<input type="checkbox"/>	PEPTCOMP	Estimates of the Components of Resident Population Change: April 1, 2010 to July 1, 2015	2015 Population Estimates
<input type="checkbox"/>	GCT-PEPANNCHG	Estimates of Resident Population Change and Rankings: July 1, 2014 to July 1, 2015 - State -- County / County Equivalent	2015 Population Estimates
<input type="checkbox"/>	GCT-PEPCUMCHG	Cumulative Estimates of Resident Population Change and Rankings: April 1, 2010 to July 1, 2015 - State -- County / County Equivalent	2015 Population Estimates
<input type="checkbox"/>	S0101	AGE AND SEX	2014 ACS 5-year estimates
<input type="checkbox"/>	S0101	AGE AND SEX	2014 ACS 1-year estimates

# American FactFinder Advanced Search Tool

Narrow Your Search Using the Topics: Open Topics Bar & Select Dataset. Highlight 2014 ACS 1 Year (Over 65,000 people) then Click to add to Selection Box

**Your Selections**

Search using...

Dataset:  
2014 ACS 1-year estimates ✕

State  
Montana ✕

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

[load search](#) | [save search](#)

**Search using the options below:**

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

**Geographies**  
(states, counties, places, ...)

**Race and Ethnic Groups**

Search Results: 1-25 of 1,762 tables and other products match 'Your Selections'

Refine your search results:    ?

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
<input type="checkbox"/>	DP05	ACS DEMOGRAPHIC AND HOUSING ESTIMATES	2014 ACS 1-year estimates
<input type="checkbox"/>	C05009	AGE AND NATIVITY OF OWN CHILDREN UNDER 18 YEARS IN FAMILIES AND SUBFAMILIES BY NATIVITY OF PARENTS	2014 ACS 1-year estimates
<input type="checkbox"/>	B05009	AGE AND NATIVITY OF OWN CHILDREN UNDER 18 YEARS IN FAMILIES AND SUBFAMILIES BY NUMBER AND NATIVITY OF PARENTS	2014 ACS 1-year estimates
<input type="checkbox"/>	S0101	AGE AND SEX	2014 ACS 1-year estimates

# American FactFinder Advanced Search Tool

Narrow Your Search Further Using the Topics: Open Topics Bar & Select People. Click on + to Expand the Education List, then Select Field of Degree

The screenshot displays the American FactFinder Advanced Search Tool interface. On the left, the 'Your Selections' panel shows the search criteria: Dataset: 2014 ACS 1-year estimates and State: Montana. Below this, there are buttons for 'load search' and 'save search', and a link to 'clear all selections and start a new search'. The 'Search using the options below:' section includes 'Topics (age, income, year, dataset, ...)' and 'Geographies (states, counties, places, ...)'. The main search results area at the top right shows 'Search Results: 1-25 of 1,762 tables and other products match 'Your Selections''. A 'Select Topics' dialog box is open, titled 'Select Topics to add to 'Your Selections''. The dialog lists several topic categories: 'People' (expanded), 'Age & Sex', 'Age Group', 'Disability', 'Education' (collapsed), and 'Employment'. Under the 'Education' category, the following sub-topics are listed: 'Educational Attainment (62)', 'Field of Degree (14)', 'School Enrollment (36)', and 'School Type (5)'. The 'Field of Degree' sub-topic is highlighted in blue. The dialog box has a 'CLOSE X' button in the top right corner.

# American FactFinder Advanced Search Tool

Close the Topics Window: Now there are 14 Tables

**Your Selections**

Search using...  
Dataset:  
2014 ACS 1-year estimates ✕  
People: Education:  
Field of Degree ✕  
State  
Montana ✕  
[clear all selections and start a new search](#)  
[load search](#) | [save search](#)

Search using the options below:  
**Topics**  
(age, income, year, dataset, ...)  
**Geographies**  
(states, counties, places, ...)  
**Race and Ethnic Groups**

**Search Results** 1-14 of 14 tables and other products match "Your Selections" per page

Refine your search results:  topic or table name  state, county or place (optional)  

topics  race/ancestry  industries  occupations

Selected:      

Show results from: All available years  All available programs

ID	Table, File or Document Title	Dataset
<input type="checkbox"/> B15010	DETAILED FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR FOR THE POPULATION 25 YEARS AND OVER	2014 ACS 1-year estimates
<input type="checkbox"/> C15010	FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR FOR THE POPULATION 25 YEARS AND OVER	2014 ACS 1-year estimates
<input type="checkbox"/> C15010C	FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR THE POPULATION 25 YEARS AND OVER (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	2014 ACS 1-year estimates
<input type="checkbox"/> C15010D	FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR THE POPULATION 25 YEARS AND OVER (ASIAN ALONE)	2014 ACS 1-year estimates
<input type="checkbox"/> C15010B	FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR THE POPULATION 25 YEARS AND OVER (BLACK OR AFRICAN AMERICAN ALONE)	2014 ACS 1-year estimates

# American FactFinder Advanced Search Tool

Click on the Table Title (Hyperlink) to Open the First Table Listed B15010: Detailed Field of Bachelors Degree for First Major for Population 25 Years and Over

B15010 | DETAILED FIELD OF BACHELOR'S DEGREE FOR FIRST MAJOR FOR THE POPULATION 25 YEARS AND OVER  
 Universe: Population 25 years and over with a Bachelor's degree or higher attainment ⓘ  
 2014 American Community Survey 1-Year Estimates

Table View

Actions: [Modify Table](#) | [Add/Remove Geographies](#) | [Bookmark/Save](#) | [Print](#) | [Download](#) | [Create a Map](#)

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

Versions of this table are available for the following years:

**2014** ▶

[2013](#)

[2012](#)

[2011](#)

[2010](#)

[2009](#)

	Montana	
	Estimate	Margin of Error
Total:	203,839	+/-5,327
Science and Engineering		
Computers, Mathematics and Statistics	5,959	+/-1,028
Biological, Agricultural, and Environmental Sciences	26,044	+/-2,250
Physical and Related Sciences	8,211	+/-1,248
Psychology	7,602	+/-1,244
Social Sciences	12,447	+/-1,460
Engineering	12,133	+/-1,658
Multidisciplinary Studies	927	+/-413
Science and Engineering Related Fields	24,583	+/-2,315
Business	30,695	+/-3,059
Education	38,740	+/-2,915
Arts, Humanities, and Other		

# TABLES TYPES

43

- **Data Profiles & Quick Tables (DP)**
  - Specific to one area (e.g. Only Housing Info) and show all key measures with little analysis
- **Detailed Tables (B,C)**
  - Topic Specific give full analysis
  - B Tables give the most complete analysis
  - C Tables less detailed
- **Subject Tables (S)**
  - Popular topics- use People or Housing to filter
- **Geographic Comparison Tables (GCT-H)**
  - Compare Geographies using Percentages, averages, or other derived measures
- **Comparison Profiles (CP) – available for only 1 year estimates**
  - Broad coverage of either social, economic, demographic or housing characteristic
- **Ranking Tables (R) – available for only 1 year estimates**
  - Rank states based on a specific topic
- **Selection Population Profile - available for 1 & 3 year estimates**
  - Lengthy table with many person and household characteristics

# PLEASE DO EXERCISES 1 & 2

## Search for State & County & City Level Data

44



©Ron Leishman \* [illustrationsOf.com/5834](http://illustrationsOf.com/5834)

# PLEASE DO EXERCISES 3 &4

## Try Using Topic / Geography Search Boxes and Modify a Table

45



# American FactFinder Advanced Search Tool

46

## Using the Topics & Geography Search Boxes

The screenshot shows the American FactFinder Advanced Search Tool interface. At the top, there is a navigation bar with the United States Census Bureau logo and the text 'FactFinder'. Below the navigation bar, there are several tabs: 'MAIN', 'COMMUNITY FACTS', 'GUIDED SEARCH', 'ADVANCED SEARCH' (which is highlighted), and 'DOWNLOAD CENTER'. The main content area is titled 'Search - Use the options on the left (topics, geographies, ...) to narrow your search results'. On the left side, there is a 'Your Selections' section which is currently empty, and a 'Search using the options below:' section with five categories: 'Topics (age, income, year, dataset, ...)', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Groups (race, ancestry, tribe)', 'Industry Codes (NAICS industry, ...)', and 'EEO Occupation Codes (executives, analysts, ...)'. In the center, there is a search form with two input fields: 'topic or table name' and 'state, county or place (optional)', a 'GO' button, and a radio button menu with options: 'topics' (selected), 'race/ancestry', 'industries', and 'occupations'. A dashed blue oval highlights the search form and the 'GO' button. Below the search form, there is a section titled 'To search for tables and other files in American FactFinder:' with three numbered steps: 1. Enter search terms and an optional geography and click GO. 2. Next, select Geographies (states, counties, cities, towns, etc.). 3. Select one or more Search Results and click View. Below step 1, there is a note: '-- or -- Select from Topics, Race and Ethnic Groups, Industry Codes, EEO Occupation Codes. • these are added to 'Your Selections' • the Search Results are updated'.

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

**Your Selections**  
'Your Selections' is empty  
[load search](#) | [save 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, ...)

**To search for tables and other files in American FactFinder:**

- 1 Enter search terms and an optional geography and click GO

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

topics    race/ancestry    industries    occupations

-- or --

Select from **Topics, Race and Ethnic Groups, Industry Codes, EEO Occupation Codes.**

- these are added to 'Your Selections'
- the Search Results are updated

- 2 Next, select **Geographies** (states, counties, cities, towns, etc.)
  - these are added to 'Your Selections'
  - the Search Results are updated
- 3 Select one or more Search Results and click **View**

# American FactFinder Advanced Search Tool

47

## Modifying Tables

S0101 | AGE AND SEX ⓘ  
2014 American Community Survey 1-Year Estimates

Table View

Actions: Hide Table Tools | Add/Remove Geographies | Bookmark/Save | Print | Download | Create a Map

Table Tools: Reset Table | Show Hidden Rows/Columns | Transpose Rows/Columns ⓘ

Click 'Back to Search' to select other tables or geographies

Legend:  show/hide rows and columns | collapse/expand data categories | rearrange columns | rearrange rows | sort ascending/descending | filter rows

This table is displayed with default geographies. ⓘ  
Click Back to Search to select other geographies using the search options on the left.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces an for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

Versions of this table are available for the following years:

2014 ▶

2013

2012

2011

2010

2009

2008

2007

Subject	United States					
	Total		Male		Female	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Total population	318,857,056	*****	156,890,101	+/-27,214	161,966,955	+/-27,214
AGE						
Under 5 years	6.2%	+/-0.1	6.4%	+/-0.1	6.0%	+/-0.1
5 to 9 years	6.4%	+/-0.1	6.7%	+/-0.1	6.2%	+/-0.1
10 to 14 years	6.5%	+/-0.1	6.8%	+/-0.1	6.3%	+/-0.1

# PLEASE DO EXERCISE 5

## Bookmark and Save a Query

48



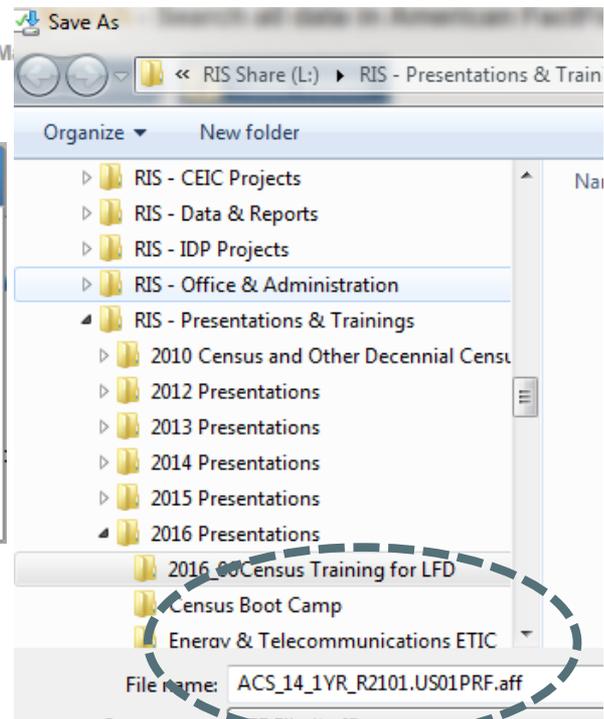
# American FactFinder Advanced Search Tool

49

## Bookmark / Save Query

PERCENT OF THE CIVILIAN POPULATION 18 YEARS AND OVER WHO ARE VETERANS - United States -- States; and Puerto Rico  
Universe: Civilian population 18 years and over ⓘ  
2014 American Community Survey 1-Year Estimates

Modify Table | Add/Remove Geographies | **Bookmark/Save** | Print | Download | Create a Map



### Bookmark/Save

Use the "Save Query" button to save the viewed products' geography and table selections to a file on your local drive. This option does not save the data but only the selections for the currently viewed result.

To retrieve a saved query, use the "Load Search or Query" button on the main page or from "Your Selections" in Advanced Search.

SAVE QUERY

CLOSE

# PLEASE DO EXERCISE 6

## Ranking & Comparison Tables

50



# American FactFinder Advanced Search Tool

51

## Ranking Table

R2101 PERCENT OF THE CIVILIAN POPULATION 18 YEARS AND OVER WHO ARE VETERANS - United States -- States; and Puerto Rico  
 Universe: Civilian population 18 years and over ⓘ  
 2014 American Community Survey 1-Year Estimates

Table View

← BACK

Actions: [Modify Table](#) | [Add/Remove Geographies](#) | [Bookmark/Save](#) | [Print](#) | [Download](#) | [Create a Map](#) | [With Statistical Significance](#)

This table is displayed with default geographies. ⓘ  
 Click Back to Search to select other geographies using the search options on the left.

[View Geography Notes](#)

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

To view this table with statistical significance, select With Statistical Significance in the Action menu.  
 A # next to a geography indicates when an estimate is not statistically significant from the estimate for the selected geography.  
 The ## indicates the selected geography.

Versions of this table are available for the following years:

- 2014 ▶
- 2013
- 2012
- 2011
- 2010
- 2009
- 2008

Geography: United States ▼

Rank	Geographical Area	Percent	Margin of Error
1	United States	7.9	+/-0.1
1	Alaska	13.1	+/-0.6
2	Virginia	10.9	+/-0.2
3	Maine	10.6	+/-0.4
3	Montana	10.6	+/-0.4
5	Hawaii	10.3	+/-0.3
5	Washington	10.3	+/-0.2
7	Wyoming	10.2	+/-0.6
8	Delaware	9.9	+/-0.4

Versions of this table are available for the following years:

- 2014 ▶
- 2013
- 2012
- 2011
- 2010
- 2009
- 2008
- 2007
- 2006
- 2005

Geography: United States ▼

Stat Sig: Geographical Area: Montana ▼

Rank	Geographical Area	Stat Sig?	Percent	Margin of Error
1	United States		7.9	+/-0.1
1	Alaska		13.1	+/-0.6
2	Virginia	#	10.9	+/-0.2
3	Maine	#	10.6	+/-0.4
3	Montana	##	10.6	+/-0.4
5	Hawaii	#	10.3	+/-0.3
5	Washington	#	10.3	+/-0.2
7	Wyoming	#	10.2	+/-0.6
8	Delaware		9.9	+/-0.4
8	South Carolina		9.9	+/-0.2
10	Nevada		9.8	+/-0.3
10	South Dakota		9.8	+/-0.4
12	Idaho		9.7	+/-0.4
13	New Mexico		9.6	+/-0.3
13	West Virginia		9.6	+/-0.4

# American FactFinder Advanced Search Tool

52

## Comparison Profile

CP03

COMPARATIVE ECONOMIC CHARACTERISTICS ⓘ  
2014 American Community Survey 1-Year Estimates

Subject	Idaho									Montana								
	2014 Estimate	2013 Estimate	2014 - 2013 Statistical Significance	2012 Estimate	2014 - 2012 Statistical Significance	2011 Estimate	2014 - 2011 Statistical Significance	2010 Estimate	2014 - 2010 Statistical Significance	2014 Estimate	2013 Estimate	2014 - 2013 Statistical Significance	2012 Estimate	2014 - 2012 Statistical Significance	2011 Estimate	2014 - 2011 Statistical Significance	2010 Estimate	2014 - 2010 Statistical Significance
<input checked="" type="checkbox"/> Labor force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>COMMUTING TO WORK</b>																		
<input checked="" type="checkbox"/> Workers 16 years and over	714,398	696,905	-	697,765	-	672,900	-	669,892	-	488,297	475,287	-	475,299	-	470,715	-	459,904	-
Car, truck, or van -- drove alone	78.9%	78.8%		77.8%		77.4%	-	77.8%		74.7%	75.1%		74.4%		75.8%		75.6%	
Car, truck, or van -- carpooled	9.8%	9.6%		10.1%		9.8%		9.9%		10.4%	10.1%		10.7%		10.4%		9.7%	
Public transportation (excluding taxicab)	0.8%	0.7%		0.8%		0.7%		0.8%		1.1%	0.7%	-	1.0%		0.9%		0.8%	
Walked	2.2%	3.1%	-	2.9%	-	3.5%	-	3.2%	-	4.6%	5.3%		4.8%		4.8%		5.2%	
Other means	2.1%	2.3%		2.5%		2.4%		2.3%		2.1%	2.8%	-	2.6%	-	2.4%		2.1%	
Worked at home	6.2%	5.5%		5.9%		6.2%		6.0%		7.1%	6.0%	-	6.5%		5.8%	-	6.5%	
Mean travel time to work (minutes)	20.3	20.1		20.2		19.7	-	20.4		17.9	18.0		18.4		18.2		18.6	

# PLEASE DO EXERCISE 7

## Refining with Key Words and Downloading a Table

53



# American FactFinder Advanced Search Tool

54

## More Practice Refining With Key Words Then Downloading the Table

The screenshot displays the American FactFinder Advanced Search Tool interface. The top navigation bar includes the table ID 'S0101' and the title 'AGE AND SEX 2014 American Community Survey 1-Year Estimates'. The 'Actions' menu contains 'Hide Table Tools', 'Add/Remove Geographies', 'Bookmark/Save', 'Print', 'Download', and 'Create a Map'. The 'Download' button is circled in red. A 'Download' dialog box is open, prompting the user to 'Select a download format and click OK'. The dialog offers two main categories: 'Comma delimited (.csv) format (data rows only)' and 'Presentation-ready formats'. Under the CSV format, options include 'Data and annotations in a single file' (selected), 'Data and annotations in separate files', and 'Include descriptive data element names' (checked). Under presentation-ready formats, options include 'PDF', 'Microsoft Excel (.xls)', and 'Rich Text Format (.rtf)'. There are also sub-options for 'Orientation' (Portrait selected, Landscape) and 'Paper size' (8 1/2" x 11" selected, 8 1/2" x 14"). A note at the bottom of the dialog states: '[PDF] or [Microsoft Excel icon] indicate a document in Adobe's Portable Document Format. To view the file you will need the Adobe Acrobat Reader available free from Adobe.' The background shows a table with columns for 'Subject', 'Estimate', 'Margin of Error', and 'Estimate' for various age groups.

Subject	Total			United States
	Estimate	Margin of Error	Estimate	Margin of Error
Total population	318,857,056	*****	156,890,101	
AGE				
Under 5 years	6.2%	+/-0.1	6.4%	
5 to 9 years	6.4%	+/-0.1	6.7%	
10 to 14 years	6.5%	+/-0.1	6.8%	
15 to 19 years	6.7%	+/-0.1	7.0%	
20 to 24 years	7.1%	+/-0.1	7.4%	

# PLEASE DO EXERCISE 8

## Address Search & Mapping

55



# American FactFinder Advanced Search Tool

56

## Creating and customizing a map

**Advanced Search** - Search all data in American FactFinder

1 Advanced Search

2 Table Viewer

B19013

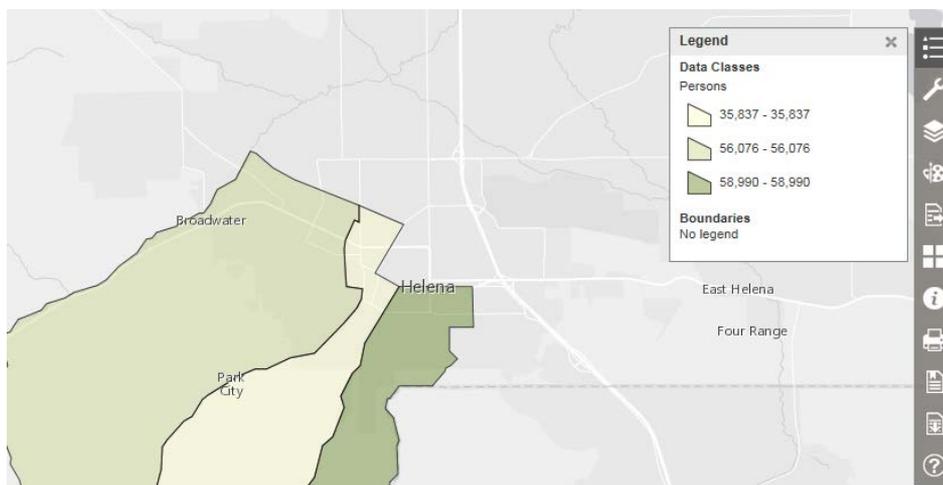
**MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)**

Universe: Households ⓘ

2010-2014 American Community Survey 5-Year Estimates

Table View

Actions: [Modify Table](#) | [Add/Remove Geographies](#) | [Bookmark/Save](#) | [Print](#) | [Download](#) | [Create a Map](#)



# QUESTIONS????

57



# THANK YOU!!!

58

## CONTACT INFORMATION

**JOE RAMLER,**

SENIOR ECONOMIST

MONTANA DEPARTMENT OF COMMERCE

[JRAMLER@MT.GOV](mailto:JRAMLER@MT.GOV)

406.841.2719

**MARY CRAIGLE**

BUREAU CHIEF

MONTANA DEPARTMENT OF COMMERCE

[MCRAIGLE@MT.GOV](mailto:MCRAIGLE@MT.GOV)

406-841-2740

**EVERYTHING YOU'VE SEEN HERE TODAY  
AND MORE IS AVAILABLE AT:**

[WWW.CEIC.MT.GOV](http://WWW.CEIC.MT.GOV)

