

Preparing Census Data for Using in Tableau

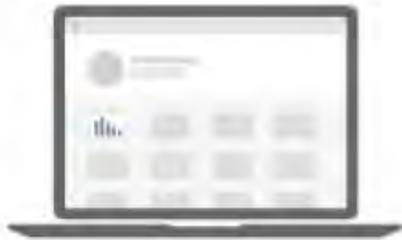
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Welcome to Tableau

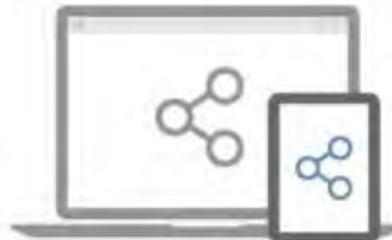


Hi, Kim Davis.



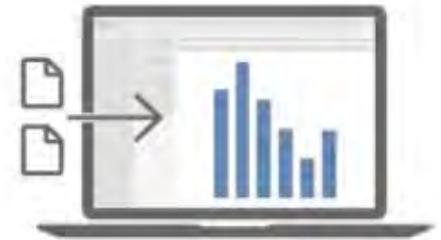
Welcome to your new Tableau Online site! This is where you'll publish data sources and workbooks created in Tableau Desktop and share them with colleagues.

[Watch a getting started video](#)



Share your work with colleagues. Adding users to your site allows them to view and interact with the workbooks and data sources you publish.

[Add users](#)



Get started by publishing a workbook. Connect to data in Tableau Desktop, create a view, and publish the workbook to your Tableau Online site.

[Connect to data in Tableau Desktop](#)

What You Can Do With Tableau

STEP 1



Publish to Tableau Online.

STEP 2



Use projects to organize your analytics.

STEP 3



Add colleagues to your site.

STEP 4



Share your views and subscribe to updates.

STEP 5



Know where to find help.

Accessing Tableau

- **Login into Tableau Online site from Tableau Desktop.**
- **Don't have Tableau Desktop yet? Download a free 14 day trial [here](#).**
- **Choose how your workbook is published to Tableau Online:**
- **If you've connected to data saved locally on your computer or your company's local network, Tableau will create an extract of the data source and publish it with your workbook.**
- **Tableau Online also publishes your workbook's data connection(s).**
- **Using a live connection to data already hosted in the cloud, Tableau will package the live connection with your workbook and publish them both—no data extract needed.**

Updates to Uploads

- Tableau Online in the cloud cannot reach data sources that you maintain on your local network..
- Some cloud-hosted data sources always require extracts:
 - Google Analytics,
 - Salesforce.com
 - Oracle
 - Odatas
 - some ODBC data sources

You can set up refresh schedules for some of these data sources directly on Tableau Online; for others you use Tableau Bridge

- Web data connector data sources always require extracts.
- If you connect to the data source using standard user name and password authentication, you can refresh it using Tableau Bridge.
- If you connect to the WDC data source using OAuth authentication, you will need to use an alternative method to refresh it.

Tableau

Video topic supported website

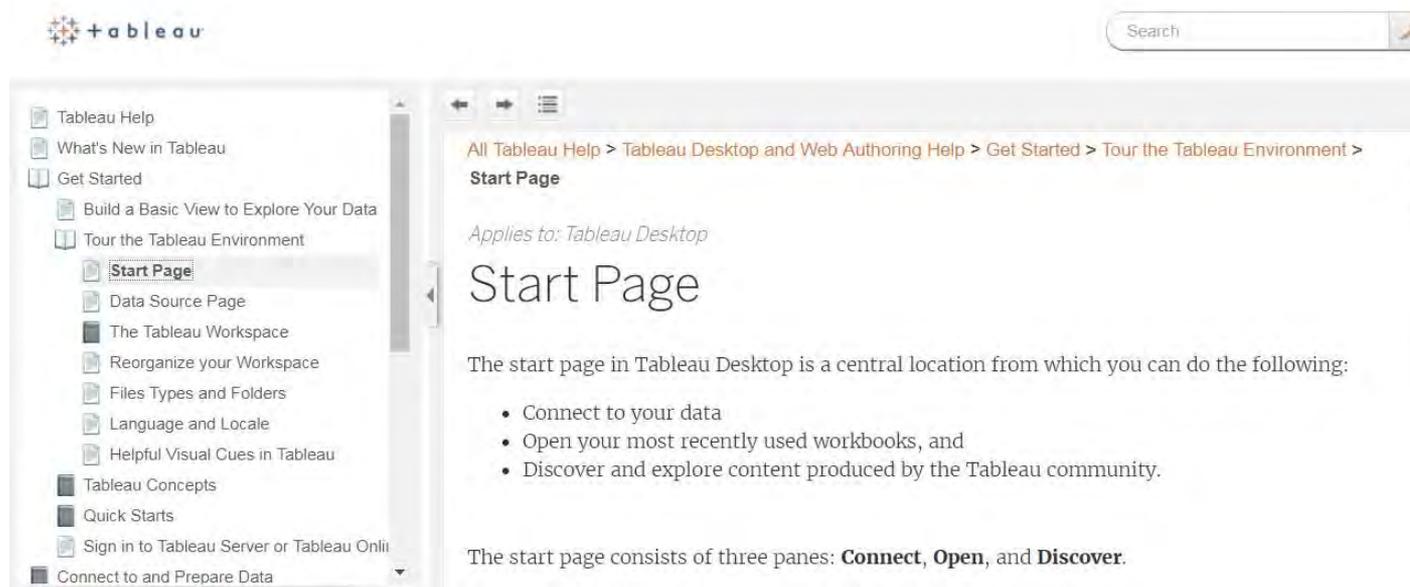
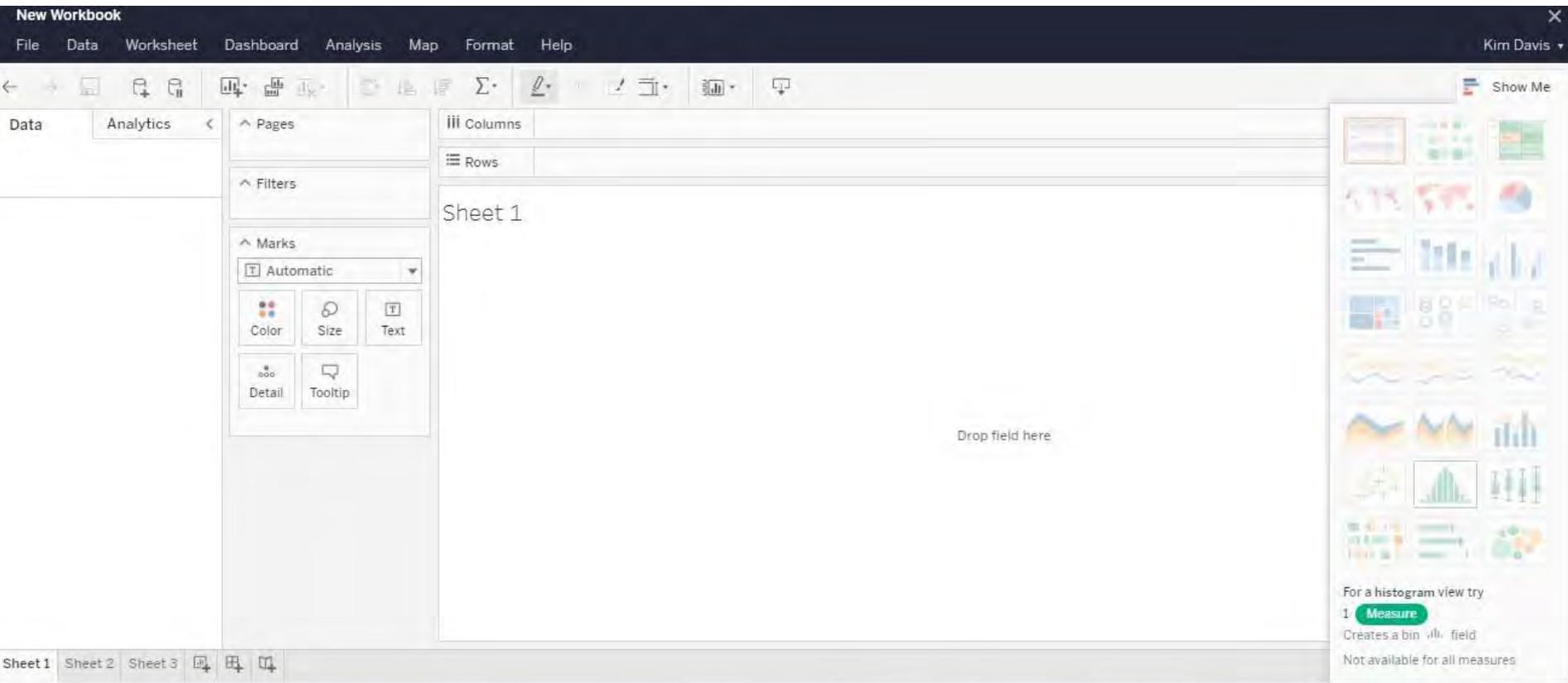


Tableau Public opening page

The screenshot shows the Tableau Public opening page. On the left is a dark blue sidebar with a 'Connect' section. Under 'To a File', there are options for Microsoft Excel, Text file, JSON file, Microsoft Access, PDF file, Spatial file, and Statistical file. Under 'To a Server', there are options for OData and More... (with a right arrow). At the bottom of the sidebar is a button labeled 'Upgrade Now'. The main area is titled 'Open' and features a prominent orange button labeled 'Open from Tableau Public'. On the right is a light gray sidebar titled 'Discover'. It contains a 'How-to Videos' section with links for Overview, Intro to the Interface, Chart Types, and More how-to videos... Below this is a 'Viz of the Day' section with a link for Evictions in the United States. At the bottom of the sidebar are links for Blog - Introducing Tableau Public 10.5, Sample Data Sets, Live Training, and Current Status.

Tableau Desktop



Workbooks

Training Workbook

Connection: Live | Extract | Edit | Refresh | Filters: 0 | Add
Extract includes all data. 3/19/2018 5:21:47 PM

Sort fields: Data source order | Show aliases: | Show hidden fields: | 1,224 rows

MOE Name	MOE	State Code (MOE ...)	State Name (MOE ...)	State Data 1. Language other than English spoken at home (percent)	MOE Language ot...	State Name1	Response Final	Return Final	Estimate Name1	Estim...
American Indian or A...	0.1	01	Alabama	5.1000	0.100000	Alabama	62.5000	78.4%	American Indian or A...	
American Indian or A...	0.2	02	Alaska	15.2000	0.300000	Alaska	55.6000	74.8%	American Indian or A...	
American Indian or A...	0.1	04	Arizona	26.9000	0.200000	Arizona	61.3000	77.6%	American Indian or A...	
American Indian or A...	0.1	05	Arkansas	7.1000	0.100000	Arkansas	62.3000	77.0%	American Indian or A...	
American Indian or A...	0.1	06	California	44.0000	0.100000	California	68.2000	76.9%	American Indian or A...	
American Indian or A...	0.1	08	Colorado	17.0000	0.200000	Colorado	67.2000	79.1%	American Indian or A...	
American Indian or A...	0.1	09	Connecticut	22.1000	0.200000	Connecticut	69.5000	79.1%	American Indian or A...	
American Indian or A...	0.1	10	Delaware	12.7000	0.300000	Delaware	64.1000	80.0%	American Indian or A...	
American Indian or A...	0.1	11	District of Columbia	17.4000	0.400000	District of Columbia	66.0000	78.3%	American Indian or A...	
American Indian or A...	0.1	12	Florida	28.3000	0.100000	Florida	63.0000	80.2%	American Indian or A...	
American Indian or A...	0.1	13	Georgia	13.7000	0.100000	Georgia	62.5000	77.2%	American Indian or A...	
American Indian or A...	0.1	15	Hawaii	25.7000	0.400000	Hawaii	64.1000	76.8%	American Indian or A...	
American Indian or A...	0.1	16	Idaho	10.6000	0.200000	Idaho	67.1000	82.6%	American Indian or A...	
American Indian or A...	0.1	17	Illinois	22.7000	0.100000	Illinois	70.5000	80.7%	American Indian or A...	

Data Source | Map | Bar Chart | Table | Donut | State Dashboard | [Icons]

Adding Census Data

- **American FactFinder**

<https://factfinder.census.gov>

- **Developers Page with APIs**

<http://www.census.gov/developers>

American FactFinder



Download Limits

	Product View		Advanced Search Search Results	Download Center
	Presentation Download	CSV Download		
Number of tables that can be selected	Viewed table only	Viewed table only	40 tables	40 tables
Number of geographies that can be selected	250 individual and collections	250 individual and collections	250 individual and collections	1 collection or a single geography
Subject to row limits	Yes	Yes	Yes	No
.CSV Download	N/A	Subject to "2M Check"	Subject to "2M Check"	Unlimited, not checked
Rows limit for full manipulation and download	5,000	2,000,000	2,000,000	N/A

Table or Search Results

The screenshot shows the American FactFinder interface. On the left, there are navigation menus for 'Your Selections', 'Search using...', and 'Search using the options below:'. The main area displays search results for 'education' with a table of results. A 'Download' dialog box is open, indicating that 3 items have been selected for download. The dialog box text reads: 'You have selected 3 item(s) to download. Click "OK" to create a zip file containing your selected products. (some downloads can take several minutes, depending on the size of the download)'. The dialog box has 'OK' and 'CANCEL' buttons.

	Dataset	About
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?
<input checked="" type="checkbox"/>	2012 ACS 1-year estimates	?
<input type="checkbox"/>	2012 ACS 3-year estimates	?
<input type="checkbox"/>	2012 ACS 5-year estimates	?

- Users can select from Search Results or Table View to download

- Up to 40 items may be selected from Search Results

- Only single Table downloading at a time

Download Center

- Allows large amounts of table data for a group of related geographies, all counties in the United States, all census tracts in Montana



The screenshot shows the American FactFinder Download Center interface. At the top, there is a navigation bar with the U.S. Department of Commerce logo, the United States Census Bureau logo, and the American FactFinder logo. Below the navigation bar, there is a title "Download Center - A step-by-step guide to downloading data" and a progress indicator with four steps: 1 Start, 2 Databases, 3 Geographies, and 4 Search Results. The current step is 1 Start. Below the progress indicator, there is a heading "Choose from one of the following and click Next" and two radio button options: "I know the dataset or table(s) that I want to download." (selected) and "I want to find prepackaged data that I can download." Below the options, there is a note: "The Download Center is designed for experienced users, providing quick access to downloadable data for predefined groups of geographies and prepackaged files. [tell me more >](#)" At the bottom, there are three buttons: "PREVIOUS", "NEXT", and "CANCEL".

- The Download Center's table path creates database-compatible commadelimited files
- Provides a path to search for and select prepackaged datasets that have been indexed by American FactFinder and are available on Census Bureau FTP servers
- Use if you are an experienced user wanting fast access to downloadable data, and you know what tables what you want to download.

AFF csv file option

- Allows user option to leave descriptions and annotations off for Shapefile downloads
- Excel workbook is recommended for Tableau.

Comma delimited (.csv) format (data rows only)
 (.csv is compatible with spreadsheet programs such as Microsoft Excel)

Data and annotations in a single file
 Data and annotations in separate files
 Include descriptive data element names

	United States	Alaska	Hawaii
Total:	308,745,609	716,231	1,260,301
Male:	151,781,328	369,020	581,243
Under 5 years	10,319,427	27,896	45,018
5 to 9 years	10,389,808	26,938	42,847
10 to 14 years	10,575,882	26,147	41,699
15 to 17 years	8,655,209	16,325	28,867
18 and 19 years	4,647,457	10,354	16,143
20 years	2,388,319	5,828	9,872
21 years	2,221,195	5,874	10,401

DEC_10_SF1_P12.csv

	A	B	C	D	E	F	G	H	I
1	GEO.id	GEO.id2	GEO.display-label	D001	D002	D003	D004	D005	D006
2	0100000US		United States	30874538	151781326	10319427	10389638	10579862	6650
3	0400000US02	2	Alaska	710231	369628	27896	26038	26147	16
4	0400000US15	15	Hawaii	1360301	681243	45019	42847	41699	26

DEC_10_SF1_P12_ann.csv

	A	B	C	D	E	F	G	H	I
1	GEO.id	GEO.id2	GEO.display-label	D001	D002	D003	D004	D005	D006
2	id	id2	Geography	Total:	Male:	Male: - Under 5 years	Male: - 5 to 9 years	Male: - 10 to 14 years	Male: - 15 to 17 years
3	0100000US		United States	T1_POP\$0100000US					

DEC_10_SF1_P12.txt

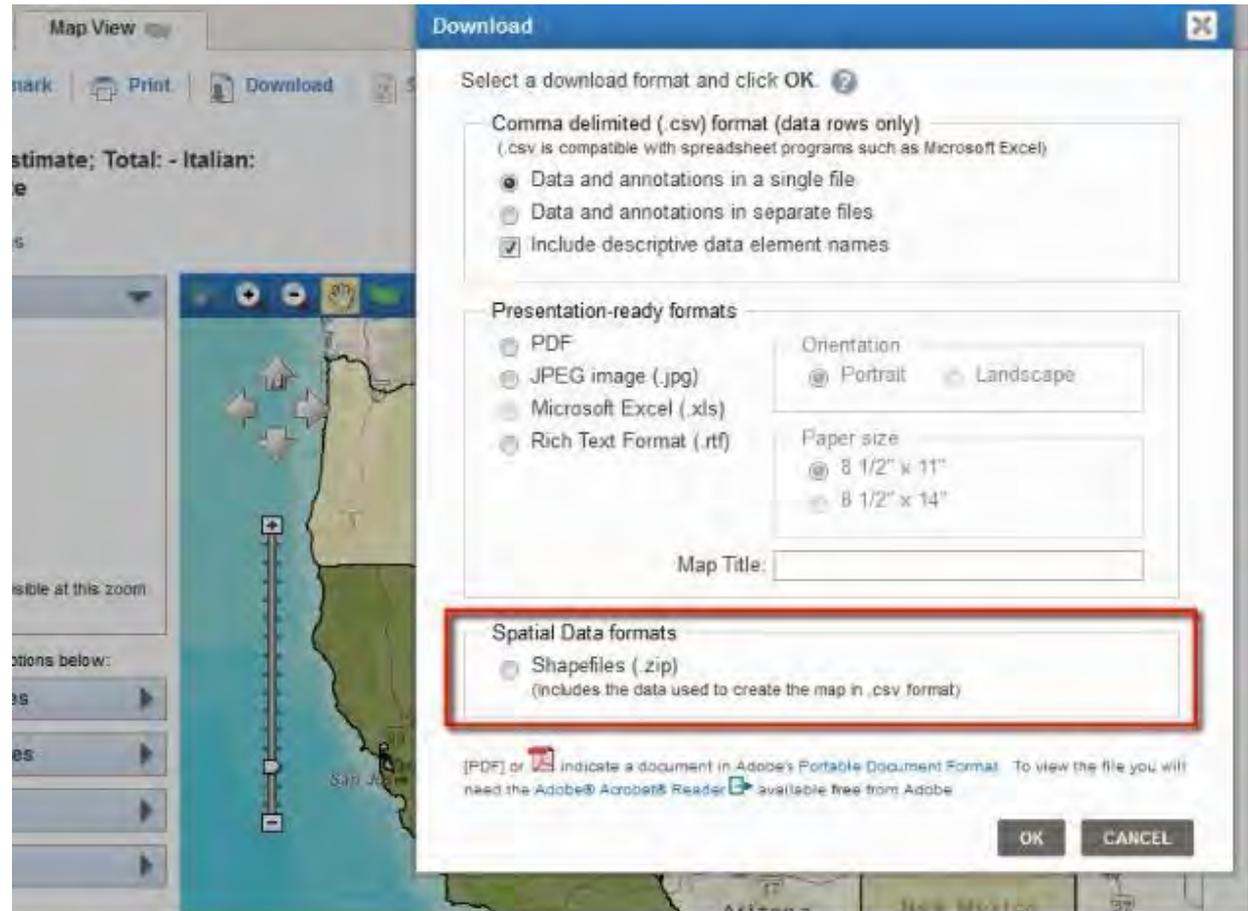
T1_POP\$0100000US
 (19688) This count has been revised.
 Revised count: 308,745,609 Revision date: 02-28-2012
 For more information, see 2010 Census Count Question Resolution.

DEC_10_SF1_P12_metadata.csv

	A	B
1	GEO.id	id
2	GEO.id2	id2
3	GEO.display-label	Geography
4	D001	Total:
5	D002	Male:
6	D003	Male: - Under 5 years
7	D004	Male: - 5 to 9 years
8	D005	Male: - 10 to 14 years
9	D006	Male: - 15 to 17 years

Spatial Data Formats

For Reference
Maps and Thematic,
the spatial data
download will
contain shapefiles for
all of the
geographies you've
added to
'Your Selections'.



Single Table Download

The screenshot displays the 'Select Topics' dialog box in the Census Bureau's data tool. On the left, a sidebar lists search options: 'Topics (age, income, year, (dataset...))', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Group (race, ancestry, tribe)', 'Industry Codes (NAICS industry, ...)', and 'EEO Occupation Codes (executives, analysts, ...)'. A red arrow points to the 'Topics' option. The 'Select Topics' dialog box has a 'CLOSE X' button in the top right corner. Inside the dialog, it says 'Select Topics to add to "Your Selections"'. A list of topics is shown with expandable icons: People, Housing, Business and Industry, Year, Product Type, Program, and Dataset. A red arrow points to the 'Dataset' category, which is expanded to show a list of datasets: 2012 Population Estimates (3), 2011 ACS 5-year estimates (2,140), 2011 ACS 3-year estimates (2,740), 2011 ACS 1-year estimates (2,041), 2011 American Housing Survey (56), 2011 Annual Survey of Manufactures (0), and 2011 Population Estimates (19). To the right of the dialog is the 'Your Selections' panel, which has a blue header. It shows 'Search using...' with the following selections: Dataset: 2010 SF1 100% Data (with a close icon), People: Age & Sex: Age (with a close icon). At the bottom of the panel, there is a link that says 'clear all selections and start a new search'.

Selecting Topics

Your Selections

Search using...
 Dataset: 2010 SF1 100% Data
 People: Age & Sex
 Age
 Sex

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 151 tables and other products match "Your Selections"

Select Geographies

List | Name | Address | Map

Select geographies to add to Your Selections

Select from: most requested geographic types all geographic types

Select a geographic type: Census Tract - 140

Select a state: Montana

Select a county: -- select a county --

Select one or more geographic areas and click **Add to Your Selections**:

- All Census Tracts within Montana
- All fully/partially Urban Census Tracts within Montana
- All fully/partially Rural Census Tracts within Montana

ADD TO YOUR SELECTIONS

Didn't find your geographic type? Click the 'all geographic types' radio button above, or try the Name, Address or Map geography search options instead.

<input type="checkbox"/>	P13G	MEDIAN AGE BY SEX (TWO OR MORE RACES)	2010 SF1 100% Data	
<input type="checkbox"/>	P13H	MEDIAN AGE BY SEX (HISPANIC OR LATINO)	2010 SF1 100% Data	
<input type="checkbox"/>	P13I	MEDIAN AGE BY SEX (WHITE ALONE, NOT HISPANIC OR LATINO)	2010 SF1 100% Data	
<input type="checkbox"/>	P14	SEX BY AGE FOR THE POPULATION UNDER 20 YEARS	2010 SF1 100% Data	
<input type="checkbox"/>	P43	GROUP QUARTERS POPULATION BY SEX BY AGE BY GROUP QUARTERS TYPE	2010 SF1 100% Data	
<input type="checkbox"/>	PCO1	GROUP QUARTERS POPULATION BY SEX BY AGE	2010 SF1 100% Data	
<input type="checkbox"/>	PCO10	GROUP QUARTERS POPULATION IN OTHER NONINSTITUTIONAL FACILITIES BY SEX BY AGE	2010 SF1 100% Data	

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

CONNECT WITH US

Accessibility | Information Quality | FOIA | Data Protection and Privacy Policy | U.S. Department of Commerce

Select Table and Action to Download

Your Selections

Search using...
 Dataset: 2010 SF1 100% Data
 People Age & Sex:
 Age
 Sex
 Census Tract
 All Census Tracts within 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 Oc (executive)

Search Results: 1-25 of 54 tables and other products match "Your Selections"

Refine your search results: **GO** ?

topics race/ancestry industries occupations

Download **Compare** **Clear All** **Reset Sort** ?

ID	Table, File or Document Title	Dataset	About
DP-1	Profile of General Population and Housing Characteristics: 2010	2010 SF1 100% Data	i
P12	SEX BY AGE	2010 SF1 100% Data	i
P12A	SEX BY AGE (WHITE ALONE)	2010 SF1 100% Data	i
P12B	SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE)	2010 SF1 100% Data	i
P12C	SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	2010 SF1 100% Data	i
P12D	SEX BY AGE (ASIAN ALONE)	2010 SF1 100% Data	i
P12E	SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	2010 SF1 100% Data	i
P12F	SEX BY AGE (SOME OTHER RACE ALONE)	2010 SF1 100% Data	i
P12G	SEX BY AGE (TWO OR MORE RACES)	2010 SF1 100% Data	i
P12H	SEX BY AGE (HISPANIC OR LATINO)	2010 SF1 100% Data	i
P12I	SEX BY AGE (WHITE ALONE, NOT HISPANIC OR LATINO)	2010 SF1 100% Data	i
<input checked="" type="checkbox"/>	P13 MEDIAN AGE BY SEX	2010 SF1 100% Data	i
P13A	MEDIAN AGE BY SEX (WHITE ALONE)	2010 SF1 100% Data	i
P13B	MEDIAN AGE BY SEX (BLACK OR AFRICAN AMERICAN ALONE)	2010 SF1 100% Data	i
P13C	MEDIAN AGE BY SEX (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	2010 SF1 100% Data	i
P13D	MEDIAN AGE BY SEX (ASIAN ALONE)	2010 SF1 100% Data	i
P13E	MEDIAN AGE BY SEX (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	2010 SF1 100% Data	i
P13F	MEDIAN AGE BY SEX (SOME OTHER RACE ALONE)	2010 SF1 100% Data	i
P13G	MEDIAN AGE BY SEX (TWO OR MORE RACES)	2010 SF1 100% Data	i
P13H	MEDIAN AGE BY SEX (HISPANIC OR LATINO)	2010 SF1 100% Data	i
P13I	MEDIAN AGE BY SEX (WHITE ALONE, NOT HISPANIC OR LATINO)	2010 SF1 100% Data	i
P14	SEX BY AGE FOR THE POPULATION UNDER 20 YEARS	2010 SF1 100% Data	i
P43	GROUP QUARTERS POPULATION BY SEX BY AGE BY GROUP QUARTERS TYPE	2010 SF1 100% Data	i
PCT12	SEX BY AGE	2010 SF1 100% Data	i
PCT12A	SEX BY AGE (WHITE ALONE)	2010 SF1 100% Data	i

Download

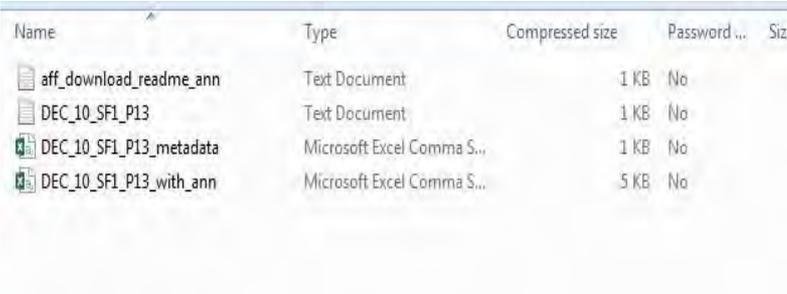
Click "OK" to create a zip file containing your selected products. (some downloads can take several minutes, depending on the size of the download)

OK **CANCEL**

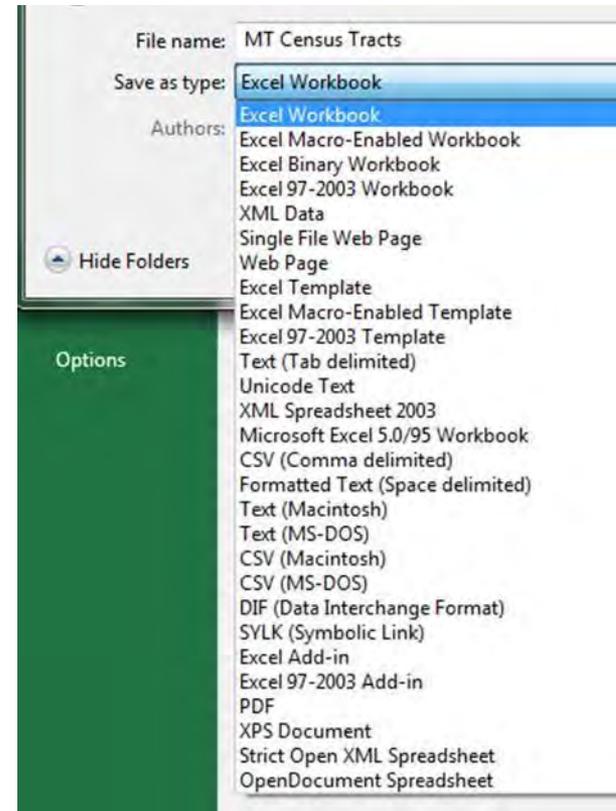
Download & Save

Downloading may take a while

Save in Excel WorkBook



Name	Type	Compressed size	Password ...	Size
aff_download_readme_ann	Text Document	1 KB	No	
DEC_10_SF1_P13	Text Document	1 KB	No	
DEC_10_SF1_P13_metadata	Microsoft Excel Comma S...	1 KB	No	
DEC_10_SF1_P13_with_ann	Microsoft Excel Comma S...	5 KB	No	



Zip File

Adjust Table

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J
1	GEO.id	GEO.id2	GEO.display-label	Median age	Median age	Median age				
2	Id	Id2	Geography	Median age	Median age	Median age	--			Female
3	1400000US300	3001000100	Census Tract 1, Beaverh	49	51.1	46.6				
4	1400000US300	3001000200	Census Tract 2, Beaverh	45.7	45.7	45.7				
5	1400000US300	3001000300	Census Tract 3, Beaverh	35.3	33	38.4				
6	1400000US300	3003000100	Census Tract 1, Big Horn	36	33.3	38.1				
7	1400000US300	3003940400	Census Tract 9404, Big H	22.9	21.7	23.8				
8	1400000US300	3003940500	Census Tract 9405, Big H	35	36	33.8				
9	1400000US300	3003940600	Census Tract 9406, Big H	26.8	25.6	27.9				
10	1400000US300	3003940700	Census Tract 9407, Big H	28.3	27.2	29				
11	1400000US300	3005000100	Census Tract 1, Blaine Co	38.9	39	38.9				
12	1400000US300	3005000200	Census Tract 2, Blaine Co	45.5	45.2	45.9				
13	1400000US300	3005940100	Census Tract 9401, Blain	23.8	22.3	25.5				
14	1400000US300	3005940200	Census Tract 9402, Blain	26.6	23.4	29.5				
15	1400000US300	3007000100	Census Tract 1, Broadwa	44.7	44.1	45.5				
16	1400000US300	3007000200	Census Tract 2, Broadwa	45.7	46.2	45.2				
17	1400000US300	3009000100	Census Tract 1, Carbon C	45.6	45	46.1				
18	1400000US300	3009000200	Census Tract 2, Carbon C	48.1	47.8	48.3				
19	1400000US300	3009000300	Census Tract 3, Carbon C	47.4	47.1	47.7				
20	1400000US300	3009000400	Census Tract 4, Carbon C	50.5	51	50.1				
21	1400000US300	3009000500	Census Tract 5, Carbon C	50	49.7	50.3				
22	1400000US300	3011000300	Census Tract 3, Carter Co	50.2	49	51.4				
23	1400000US300	3013000100	Census Tract 1, Cascade	35.3	32.9	38.2				
24	1400000US300	3013000200	Census Tract 2, Cascade	40.3	37.6	42.9				
25	1400000US300	3013000300	Census Tract 3, Cascade	34.3	33	36.6				
26	1400000US300	3013000400	Census Tract 4, Cascade	37.2	33.9	41.1				

TIGER Shapefiles

- <https://www.census.gov/geo/maps-data/data/tiger-line.html>

Geography

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Maps & Data

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 - [Census Data Mapper](#)
 - [Reference](#)
 - [Thematic](#)
 - [Maps Available for Purchase](#)
- [Data](#)
 - [TIGER Products](#)
 - [Census Geocoder](#)
 - [Partnership Shapefiles](#)
 - [Relationship Files](#)
 - [Gazetteer Files](#)
 - [Block Assignment Files](#)
 - [Name Lookup Tables](#)
 - [Tallies](#)
 - [LandView](#)

TIGER/Line® Shapefiles and TIGER/Line® Files

- [Format:](#)
 - [Shapefile - 2007 to Present](#)
 - [TIGER/Line ASCII format - 2006 and earlier](#)
 - [Census 2000 available in both formats](#)
- [The core TIGER/Line Files and Shapefiles do not include demographic data, but they do contain geographic entity codes \(GEOIDs\) that can be linked to the Census Bureau's demographic data, available on \[American FactFinder\]\(#\).](#)
- [How Do I Choose Which Vintage to Use? \[PDF\]](#)
- [Note on Special Characters Not Displaying Correctly](#)
- [Working with TIGER/Line Shapefiles How-To Guides](#)
- [Geography Change & Errata](#)
 - [Geographic Boundary Change Notes](#)
 - [Geography Notes and Errata from the 2010 Census \[PDF\]](#)
 - [Substantial County Changes](#)



[2017](#) [2016](#) [2015](#) [2014](#) [2013](#) [113th CD](#) [2012](#) [2011](#) [2010](#) [2009](#) [2008](#) [2007](#) [2006SE](#) [Census 2000](#) [1992](#)

2017 TIGER/Line Shapefiles

All legal boundaries and names are as of January 1, 2017. Released September 28, 2017.

[Download](#)

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[Yes](#) [No](#)

Developers in Data Tab

Developers

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The Census Bureau has begun rolling out our datasets via APIs. Check out our [Discovery Tool](#). Sign up for our [newsletter](#) to get the latest updates and newest dataset addition. We also invite you to make requests for features / data via our [forum](#).

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Error in the Variable Labels for the 2016 1-Year ACS API

September 29, 2017

The U.S. Census Bureau fixed this issue and variable labels are now correct. Data for these variables are correct and were not changed.

1990 Decennial (SF1) Block Groups Temporarily Decommissioned

September 21, 2017

Issue Resolved: Conversion Error for Select 2015 ACS 1-Year Endpoints

September 14, 2017

The conversion error has been resolved for aggregate estimates with values over 2.1 billion in the 2015 ACS 1-Year endpoints.

[View All Updates](#)

Discovery Page

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Developers

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Census Data API Discovery Tool

March 01, 2014



The Census Data API Discovery Tool provides a machine-readable dataset discovery service and is available in three formats:

- api.census.gov/data.html
- api.census.gov/data.xml
- api.census.gov/data.json

The content of api.census.gov/data.json is based largely on the Open Project Data Common Core Metadata Schema and is extended to include metadata specific to Census Bureau datasets. The api.census.gov/data.xml URI may be used to access the same information as XML.

In addition to the above URIs dataset discovery is available for the entire vintage/dataset hierarchy as well. For example, the following URIs may be used to discover all datasets within the 2010 vintage:

- api.census.gov/data/2010.html
- api.census.gov/data/2010.json
- api.census.gov/data/2010.xml

The [Open Project Data Common Core Metadata Schema](#) documentation is a good starting point for understanding the fields output by the discovery service.

Happy discovering!

Last Revised: February 21, 2017

api.census.gov/data.html

Content

Census API: Datasets in /data and its descendants

Title	Description	Vintage	Dataset Name	Geography List	Variable List	Group List	Tag List	Examples	Developer Documentation	API Base URL
1986 County Business Patterns: Business Patterns	County Business Patterns (CBP) is an annual series that provides economic data by industry at the U.S., State, County and Metropolitan Area levels. This series includes the number of establishments, employment during the week of March 12, first quarter payroll, and annual payroll. CBP provides statistics for businesses with paid employees for the U.S., Puerto Rico, and the Island Areas. Census Bureau staff identified a processing error that affects selected data from the 2014 County Business Patterns (CBP). As a result, we suppressed 2014 employment and payroll totals in the Health Care and Social Assistance sector (Sector 62) for the following geographies: U.S.; Michigan; Battle Creek, MI metro area; Calhoun County, MI; and the 3rd congressional district of Michigan. This processing error did not affect other sectors. While suppressed values can be derived by subtraction, we do not recommend using the derived values in any analyses. The Census Bureau plans to release revised statistics at a later date.	1986	cbp	geographies	variables	groups	N/A	examples	documentation	https://api.census.gov
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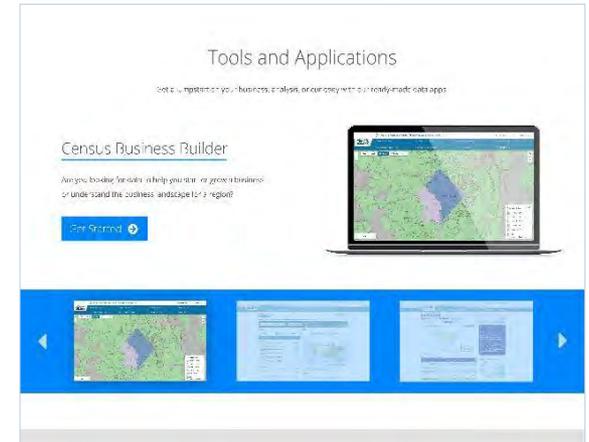
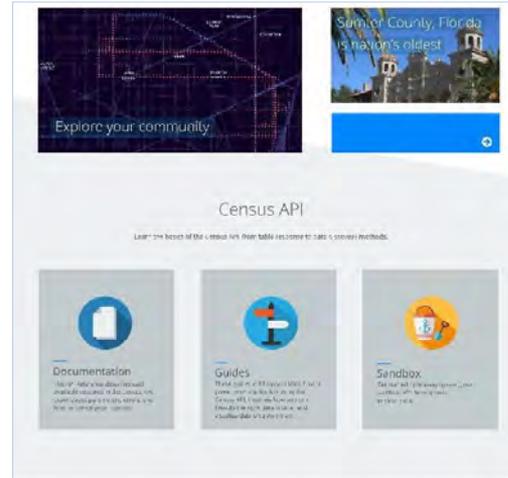
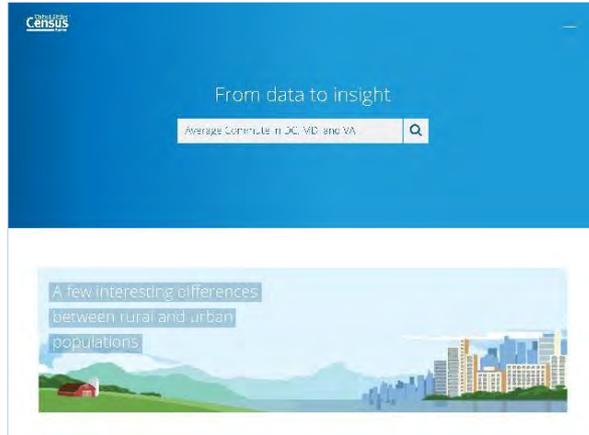
Future of API

Data.census.gov Preview Platform

Developers Page:

Developers Page Preview

MOVEPEOPLE FROM DATA TO INSIGHT



1. Single search for API



2. Sandbox for testing



3. Snapshot of tools and applications

Conceptual Design

Developers Page:

Documentation with references of materials starting at overview

The screenshot shows the 'Documentation' page for the Census API. The navigation bar includes 'Documentation', 'Sandbox', and 'API Status'. A search icon is in the top right. The left sidebar lists navigation items: Overview (selected), API Root, Authorization, Data, Geography, Metadata, Programs, Search, and Discover. The main content area is titled 'Get started with the Census API' and includes a placeholder text. Below are two tables:

API Root

HTTP Method	Endpoint	Function
GET	/	API Root

Authorization

HTTP Method	Endpoint	Function
POST	/authorize	Link your application
GET	/authorize	Get a list of your applications

Conceptual Design

Developers Page:
API Status
up to date, easy
view of API related
stats for specific
day, week and
month in question

Datacenter	Status	Uptime today	Uptime this week	Uptime this month	Report
CENSUS01	✓	100%	100%	99.95%	📄
CENSUS02	✗	50%	100%	99.95%	📄
CENSUS03	✓	100%	100%	99.95%	📄
CENSUS04	✓	100%	100%	99.95%	📄
CENSUS05	✓	100%	100%	99.95%	📄
CENSUS06	✓	100%	100%	99.95%	📄
CENSUS07	✓	100%	100%	99.95%	📄
CENSUS08	✓	100%	100%	99.95%	📄

Conceptual Design

Census Engagement Navigator

- Created by two Data Dissemination Specialist
- Testing Census Bureau Data Products in public tools
- Partner with Tableau to enhance user-ability of public data

<https://census.gov/library/visualizations/interactive/engagement.html>

Resources

- Tableau training webinars

https://www.census.gov/mso/www/training/recent_webinars.html

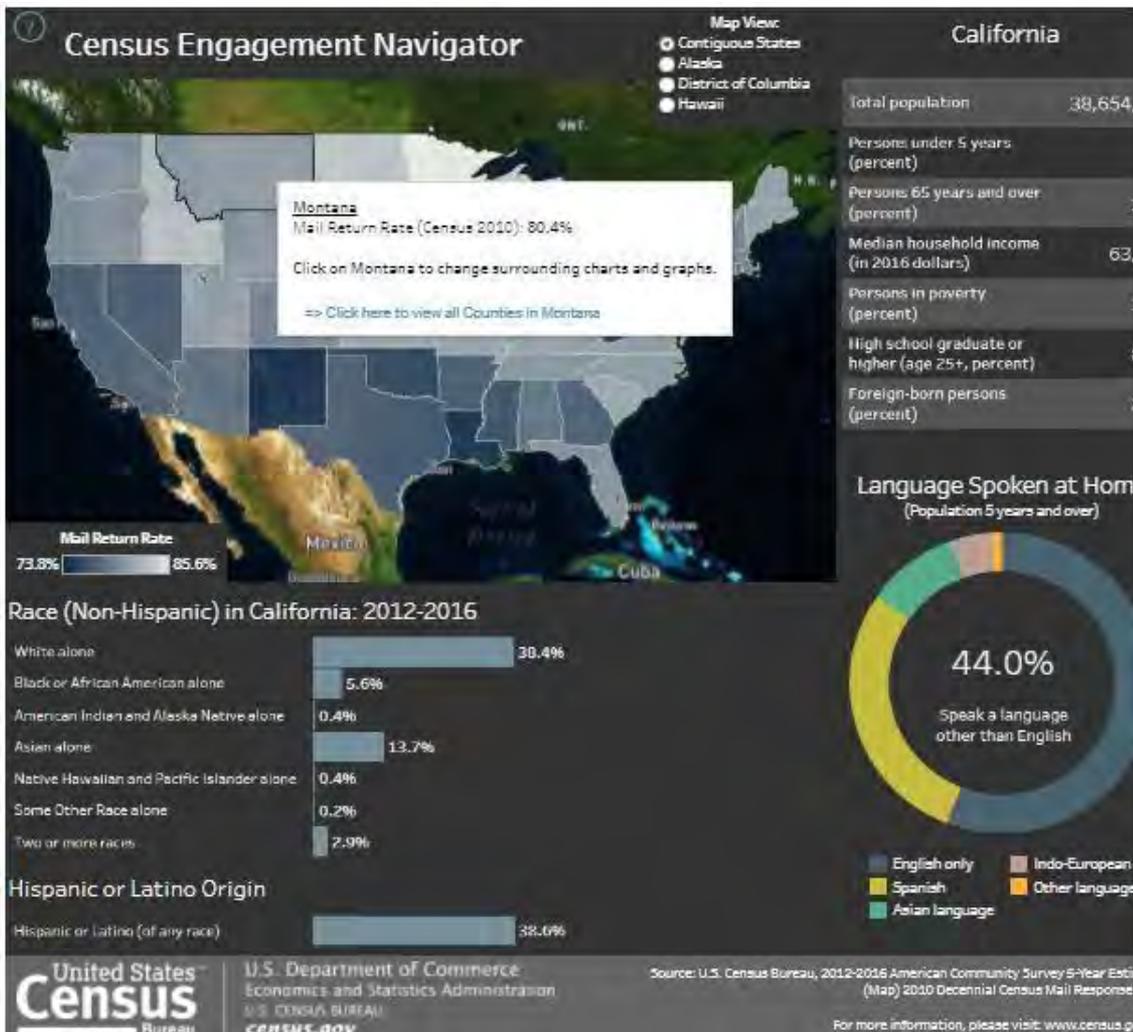
- Tableau Link for assistance:

<https://community.tableau.com/docs/DOC-9135>

Accessing TIGERweb – July 6, 2017

[Archived Webinar](#) | [Transcript](#)

Dashboard



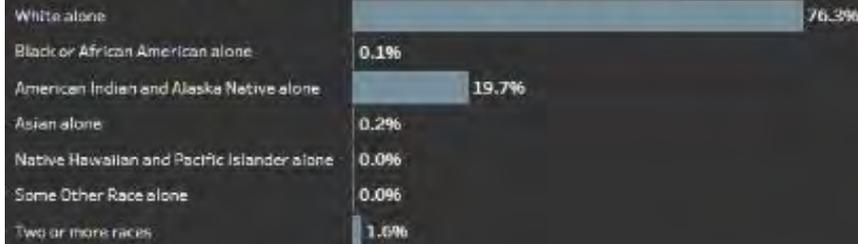
- Interactive maps
- Analytics
- Tables
- Graphs and Charts
(Donut Chart)
- Connects to information

Narrowing to Counties

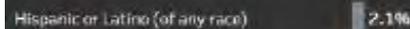


Total population	5,
Persons under 5 years (percent)	
Persons 65 years and over (percent)	
Median household income (in 2016 dollars)	38,
Persons in poverty (percent)	2
High school graduate or higher (age 25+, percent)	9
Foreign-born persons (percent)	

Race (Non-Hispanic) in Chouteau County, Montana: 2012-2016



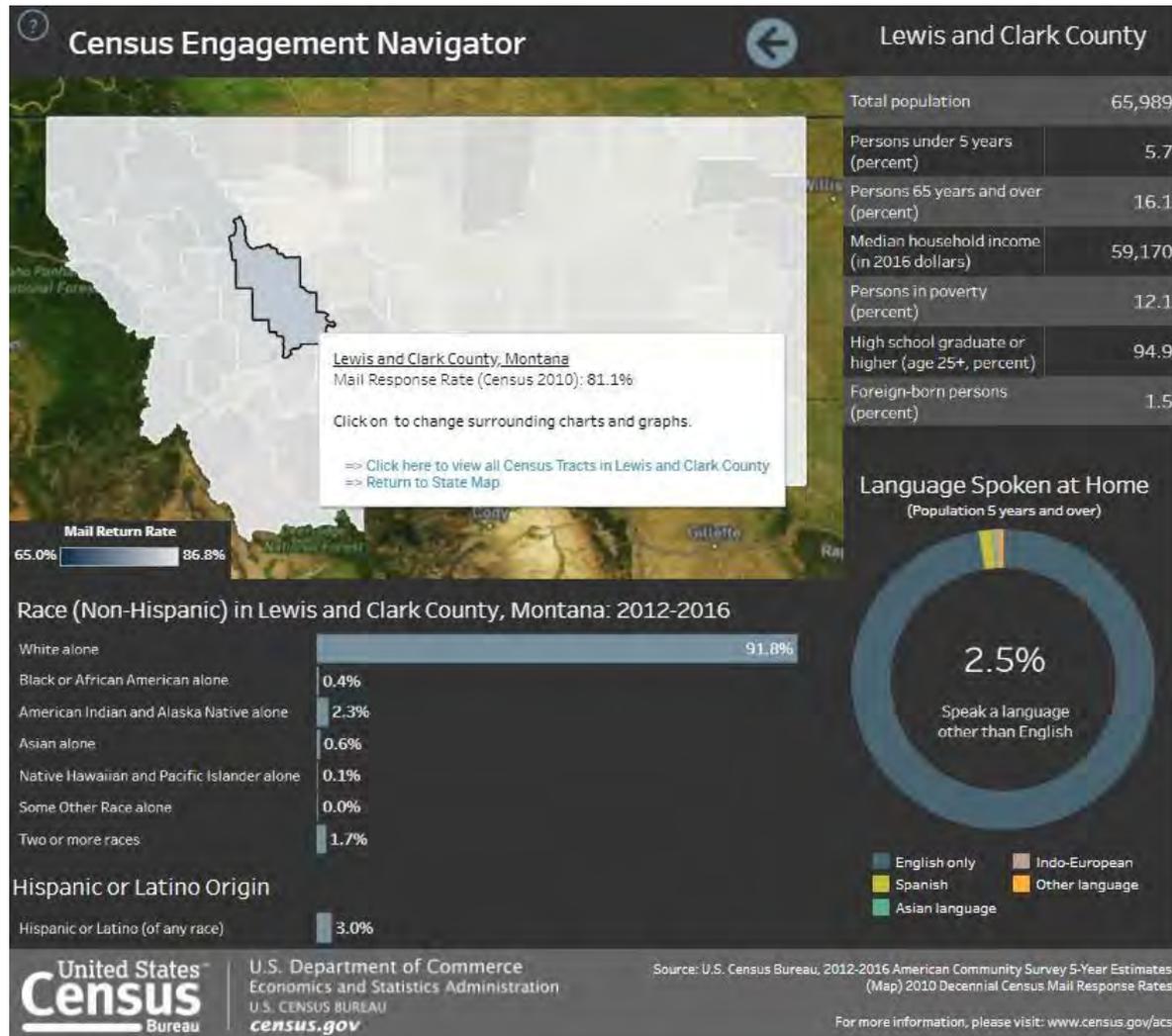
Hispanic or Latino Origin



Language Spoken at Home (Population 5 years and over)



Narrowing to Tracts



Narrative Profile

Narrative Profiles are short, analytic reports derived from the ACS 5year estimates. Each Narrative Profile covers 15 different [topic areas](#) and provides text and bar charts to display highlights of selected social, economic, housing and demographic estimates for a selected geographic area.

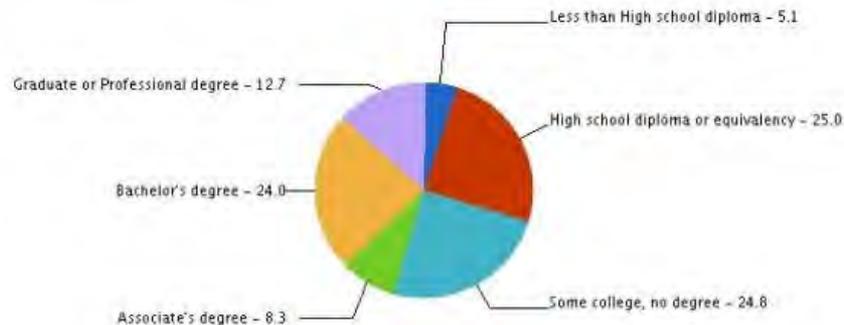
Education

In 2012-2016, 95 percent of people 25 years and over had at least graduated from high school and 37 percent had a bachelor's degree or higher. An estimated 5 percent did not complete high school.

The total school enrollment in Helena, MT Micro Area was 17,700 in 2012-2016. Nursery school and kindergarten enrollment was 1,700 and elementary or high school enrollment was 11,500 children. College or graduate school enrollment was 4,500.

Educational Attainment of People in Helena, MT Micro Area in 2012-2016

[click graph to view data in table format](#)



[Helena Metro](#)

https://thedataweb.rm.census.gov/TheDataWeb_HotReport2/profile/2016/5yr/np01.html?SU_MLEV=310&cbsa=25740

DATA QUESTIONS OR FREE DATA TRAINING?

Contact 1-844-ASK-DATA (1-844-275-3282)

or

email census.askdata@census.gov

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