

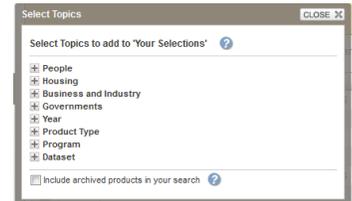
# American FactFinder *Advanced Search Examples*



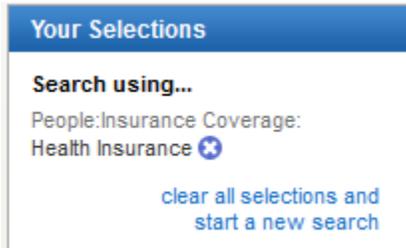
## AFF ADVANCED SEARCH: Search for State & County Level Data

### 1. *What is the most current percentage of people in Montana and in Flathead County who do not have health insurance?*

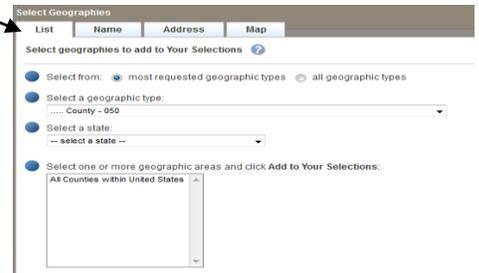
Click on Advanced Search in the blue menu bar at the top  
Select Topics Bar> click on + to expand People  
> Insurance Coverage = Health Insurance  
Close Topics overlay



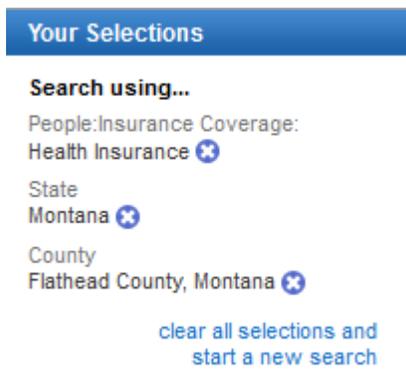
Your Selections Box should show:



Open Geographies Bar > (List tab is default)  
Select a geographic type = State – 040  
Highlight Montana > Add to Your Selections  
(still on List tab) Select a geographic type = County – 050 >  
Select a state = Montana  
Highlight Flathead County, > Add to Your Selections  
Close Geographies overlay



Your Selections Box should show:



Click hyperlink (table title for S2701 Health Insurance Coverage Status, 2010-2014 ACS 5-Year Estimates) **Answers: Without health insurance in Montana, 16.7% (+/-0.3); Flathead County, 19.0% (+/- 1.2)**

Click Back to Advanced Search and clear all selections from the Your Selections box.

## AFF ADVANCED SEARCH: Search for State & County Level Data

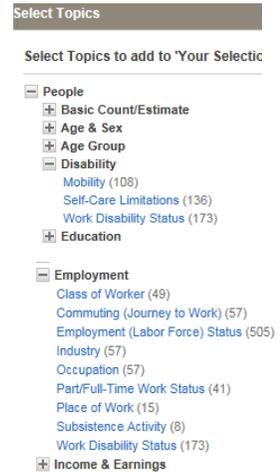
### 2. **What is the number of employed people in the labor force with a disability (any type) in Great Falls City?**

Click on Advanced Search in the blue menu bar at the top  
Select Topics Bar> Click on + to expand People > Disability > Disability

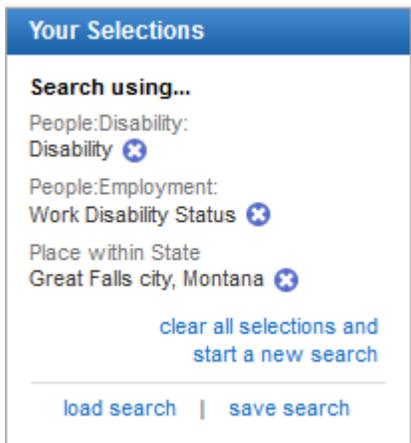
(Still in Topics) Click on the + to expand People > Employment > Work Disability Status

Close Topics overlay

Open Geographies Bar > (List tab is default)  
Select a geographic type (Scroll Down)= **Place – 160**  
Select a state = Montana  
Highlight Great Falls city> Add to Your Selections  
Close Geographies overlay



Your Selections Box should show:



Click hyperlink table title for: C18120. Employment Status by Disability Status – 2010-2014 American Community Survey 5-year Estimates

**Answers: Estimate for number of employed people in the labor force with a disability in Great Falls City is 1,989 (+/- 263)**

Click Back to Advanced Search and clear all selections from the Your Selections box.

**AFF ADVANCED SEARCH: Try Using Topic / Geography Search Boxes**

**3. Statewide, what was the 2014 median earnings by gender of Full-time Montana workers in Management Occupations and in Health Technologies and Technicians?**

Click on Advanced Search in the blue menu bar at the top  
Select Topics Bar> click on + to expand People  
Click on + to expand Income & Earnings > (Individual)

Close Topics overlay

In the Refine your search box, enter Occupation in the topic box and Montana in the State

Refine your search results:      
 topics  race/ancestry  industries  occupations

Your Selections Box should show: (Misspelled Occupation purposefully to show auto correct- be mindful of this)

**Your Selections**

Search using...

People:Income & Earnings:  
Income/Earnings (Individuals) ✕

People:Employment:  
Occupation ✕

State  
Montana ✕

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

---

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

Click hyperlink (table title for: “S2402 Occupation **by Sex** and Median Earnings in the Past 12 Months.. 16 Years and Older 2014 ACS **1-Year Estimates**”)

**Answers: Estimates for median earnings for full-time workers (male or female) in Management Occupations in 2014 was \$47,493 +/- \$4,226  
Health Technologists and Technicians \$36,460 +/- \$3,287**

**AFF ADVANCED SEARCH: Modify Table, Sort Results, Filter Results**

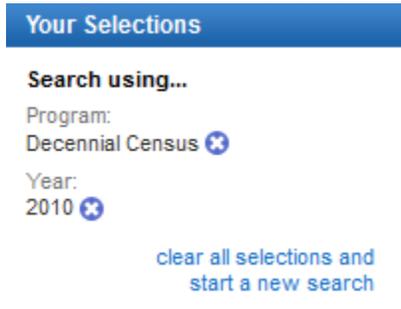
**4. Find a 2010 Census table that lists the American Indian Alone population in Montana by county. Sort the counties in descending order (largest to smallest) by American Indian Alone population.**

**(a) Which Montana county had the largest American Indian Alone population on the 2010 Census? Which county had the smallest?**

**(b) How do you display only the counties with American Indian Alone populations of 5,000 people or more? How many counties display? What are they?**

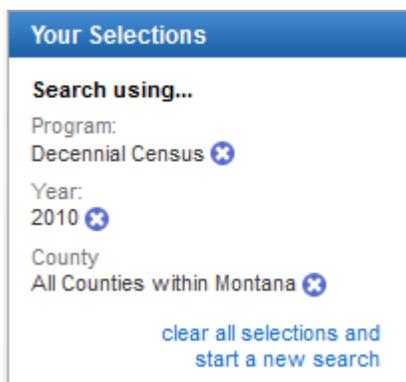
Click on Advanced Search in the top blue bar menu>  
Clear all selections in the Your Selections box (lower right corner of box)  
Select Topics > click on + to expand Program = Decennial Census  
(still on Topics) click on + to expand Year = 2010

Your Selection Box should show:



Close Topics overlay after confirming that your selections are in the Your Selections box  
Open Geographies Bar > (List tab is default) Select a geographic type = County - 050  
Select a state = Montana  
Select one or more . . . = (highlight) All Counties within Montana> Add to Your Selections  
Close Geographies window after confirming that your selection is in the Your Selections box

Your Selection Box should show:

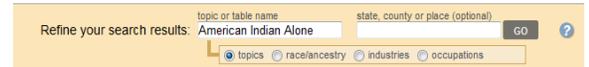


**Tip:** Table ID PCT (Population) or HCT (Housing) are from the Decennial Census only and sometimes provide more complex cross-tabulations than you will see on the Detailed Tables.

The “CT” refers to the fact that they are only available down to the census tract level.

**..4. Find a 2010 Census table that lists the American Indian Alone population in Montana by county (Continued)...**

Refine your search (text box): American Indian Alone >GO



Check table titles. Generally, choose the simplest table that has the information you need.

Select PCT4, AIAN Alone or in Combination by clicking the table name hyperlink. Or, you can check the box next to table then choose View above menu of results. (You may check more than one table at a time in this manner)

You want to sort the results (by population), and you can only sort data in columns

Click Modify Table > Transpose Rows / Columns

**(A yellow box above the table notes that you have modified the original table.)**

Note the Legend under table tools



Mouse over down arrow in the first column American Indian Alone.., then click on the down arrow (you want AI Alone in the “Sort by” column, and “Descending (Z-A)” in the right column) > Click OK

**Answer (a): The Largest American Indian Alone (County) population in 2010 was Glacier County, at 8,428, and the smallest was Petroleum County with 0 persons. This is an actual count because it was a census not a survey.**

	American Indian alone (People who reported a specific American Indian tribe only) (A01-M38, T01-Z99)	Alaska Native alone (People who reported a specific Alaska Native tribe only) (M52-R98)	American Indian and Alaska Native alone (People who reported both a specific American Indian tribe(s) and a specific Alaska Native tribe(s) and no other race) (A01-M38, T01-Z99) & (M52-R98)	American Indian in combination with one or more other races (People who reported a specific American Indian tribe and reported one or more other races) (A01-M38, T01-Z99) & (100-299) or (400-999)	
Glacier County, Montana	9,149	8,428	15	4	318
Big Horn County, Montana	8,566	7,507	13	1	203

Click on down arrow (in red now) and select Remove Sort

Next, Click on the filter icon (funnel) in the first column - American Indian Alone... > (drop-down menu) =greater than or equal to > 5,000 > OK

**Answer (b): 4 counties had American Indian Alone populations of 5,000 or greater: Big Horn, Glacier, Lake, and Roosevelt in 2010. This is an actual count because it was a census not a survey.**

Big Horn County, Montana	8,566	7,507
Glacier County, Montana	9,149	8,428
Lake County, Montana	8,236	5,619
Roosevelt County, Montana	6,581	5,879

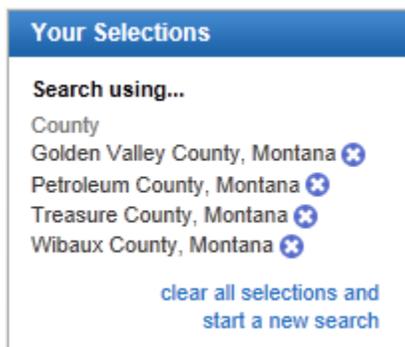
Click Back to Advanced Search and clear all selections from the Your Selections box.

## AFF ADVANCED SEARCH: Bookmark and Save a Query

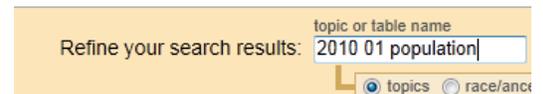
5. **Make a table of the total 2010 population (P1 Population) for the following counties in Montana: Golden Valley, Petroleum, Treasure, and Wibaux. Save the query to the desktop and load the query from that saved file.**

Click on Advanced Search in the blue menu bar at the top  
Open Geographies Bar > > (List tab) > County-050> (select a state) Montana  
Scroll Down and Highlight Golden Valley County, **then hold Ctrl key down** while selecting Petroleum, Treasure, and Wibaux Counties  
Click Add to Your Selections  
Close Geographies window overlay

Your Selection Box should show:



Refine your search results by typing in the topic or table name area: 2010 p1 population then hit return

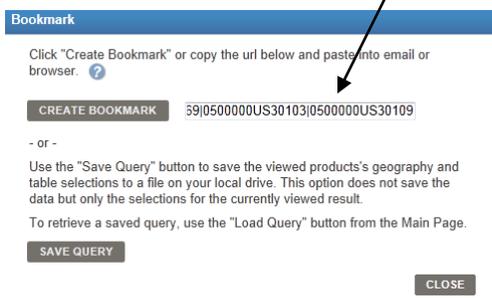


Click hyperlink for P1 Total Population

Click on Bookmark in Actions Menu:



(Note that you may copy the URL and paste into an e-mail or other document.)



**..7. Make a table of the total 2010 population... save the query (Continued)...**

**To Save Your Geography Selections for Later Use:**

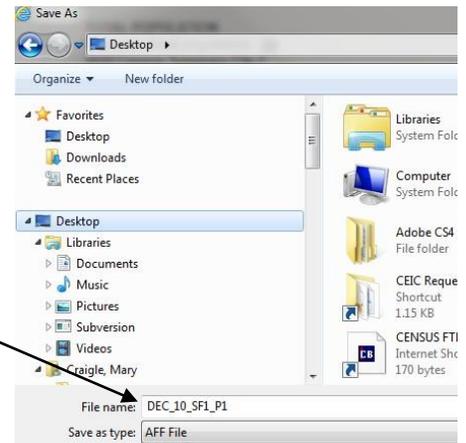
Click on Save Query > **Save as** (not Save)> Desktop (or folder) > Save as Type AFF File (**Note: instructions may vary by browser**) Now Test by clicking Back to Advanced Search and clearing all selections)

To restore this saved query

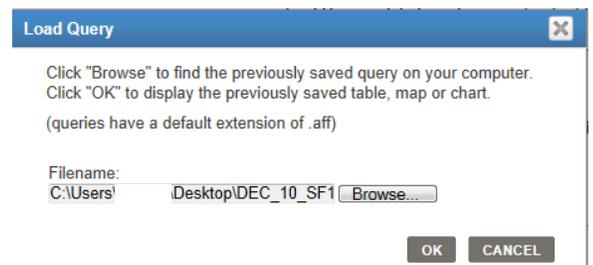
Go to AFF Main tab

In the lower right corner, Click on Load Query > Browse (desktop)

File name = \*.aff (the extension for American FactFinder documents)



Click on document so it appears in the File name text box > Open > OK Back to Advanced Search  
Your geographies remain in the Your Selections box and you may select other topics and tables



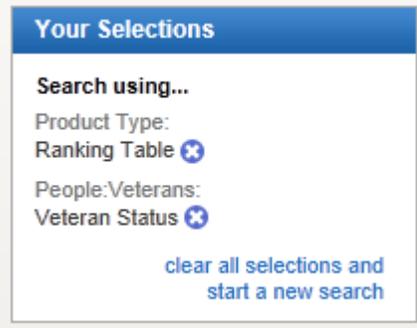
Clear all selections from the Your Selections box

**AFF ADVANCED SEARCH: ACS Product Types – Ranking Table, Comparison Profiles**

**6. Make a Ranking Table**

Click on Advanced Search in the blue menu bar at the top Select Topics Bar> Product Type = Ranking Tables (**still in Topics**) > Select People = Veterans = Veteran Status Close Topics overlay (window) by clicking “X” upper right OR by clicking Topics filter bar

Your Selection Box should show:



Click hyperlink for R2101 Percent of Civilian Population 18 Years and Over Who Are Veterans (2014 ACS1-Year Estimates)

**Answer: MT ranked 3rd among states, with 10.6% (+/-0.4) in Percent of Veterans**

Click on US Map Icon in the Actions menu, With Statistical Significance  With Statistical Significance

Then select Montana in the Stat Sig Geographical Area box

Geography:  

Stat Sig: Geographical Area:  

Notice in the table the states around Montana that now have a # sign in the column. The # indicates the states value is not significantly different. So, for example since the estimate of Virginia at 10.9 +/-0.2 the estimate range (10.7 to 11.2) overlaps Montana’s estimates so these states are indistinguishable in rank (10.2 to 11.0).

Rank	Geographical Area	Stat Sig?	Percent	Margin of Error
	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

Click Back to Advanced Search and clear all selections from the Your Selections box

## **AFF ADVANCED SEARCH: ACS Product Types – Ranking Table, Comparison Profiles**

(Comparison Profiles are only available for populations of 65,000 or more – 1-year estimates)

**... 6 Make a Comparison Profile on home values in Bozeman, Montana using the 2014 ACS 1-Year estimates. In which of the past five years was the estimated median value of the owner-occupied homes the highest, and what was that median value?**

Click on Advanced Search in the blue menu bar at the top  
Open Topics filter bar > Product Type = Comparison Profile  
Also on Topics > Dataset = 2014 ACS 1-year estimates  
Also on Topics > Housing > Financial Characteristics = Value of Home  
Close Topics window overlay  
Open Geographies Bar > > Go to Name tab > Type in Bozeman, Montana > GO  
(In Geography Results) Click on hyperlink for Bozeman, Montana Micro Area  
Close Geographies window

Select Geographies

List Name Address Map

Enter a geography name or use the Geography Filter Options below:

Enter a geography name (Alabama, Marengo County, ...)

GO

Your Selection Box should show:

Your Selections

Search using...

Product Type:  
Comparison Profile ✕

Dataset:  
2014 ACS 1-year estimates ✕

Housing: Financial Characteristic:  
Value of Home ✕

Metro/Micro Statistical Area  
Bozeman, MT Micro Area ✕

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

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

(In Search Results) click hyperlink for CP04 Selected Housing Characteristics  
Scroll about half way down table to “Value” and look at row- Median (dollars). There will be estimates for each of the 5 years (2010-2014)  
**Answer: 2014 Estimate, \$280,100**

CAUTIONARY NOTE: Make sure you know what geographic area your “geography selection” represents. In the above example, we selected “Bozeman, MT Micro Area”. That area, geographically, is equal to the entire Gallatin Valley. Because a geography in AFF has a seemingly familiar name doesn’t always mean it represents the actual geography we would assume it represents locally.

**AFF ADVANCED SEARCH: Refining with Key Words and Downloading a Table**

**7. Access all the Detailed Tables on immigration - - for (1) the U.S., (2) the state of Montana (3) Missoula County, and (4) the City of Billings. Then use the topic or table name text box to refine the results by entering (one at a time) citizen, year of entry, Asia.**

**(A) In B05007, 2014 ACS 5-year estimates. Where is the South America section?  
How many Asia Not U.S. Citizens entered Billings City in 2010 or later?**

**(B) Download B05007 (2010-2014 ACS 5-year) into an Excel (.xls) format**

Advanced Search > Topics filter > Product Type = Detailed Table

Close Topics window overlay

In Topic or table name text box enter immigration > GO  
(933 tables match)

Open Geographies Bar > (list tab) > select a geographic type > United States - 010

Highlight United States and Add to Your Selections

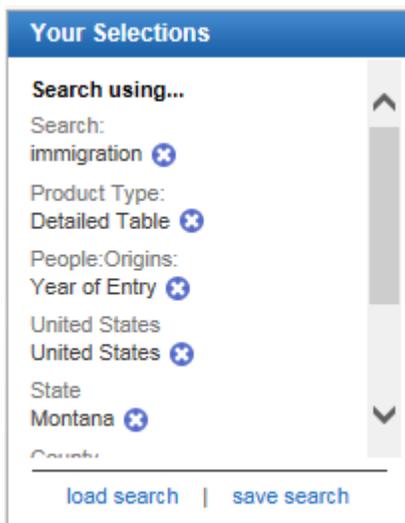
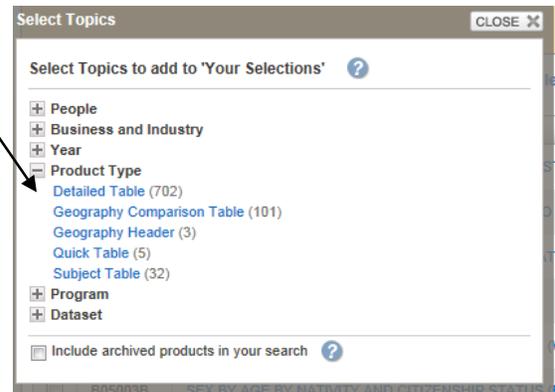
Select next geographic type > State - 040 = Montana > Highlight and Add to Your Selections

Select a third geographic type > County - 050 > Select a state = Montana > Highlight Missoula County and Add to Your Selections

Select a fourth geographic type > Place - 160 > Select a state = Montana > Highlight Billings City and Add to Your Selections

Close Geographies window overlay (

Your Selection Box should show (you will need to scroll down):



**...7. Access all the Detailed Tables on immigration - - for (1) the U.S., (2) the state of Montana (3) Missoula County, and (4) the City of Billings (Continued)...**

Click hyperlink for B05007, 2010-2014 ACS **5-year** estimates

**Answers (A): The ACS estimate is 149 +/- 164 South Americans Not U.S. Citizens entered Billings City in 2010 or later. This number should NEVER be cited because the margin of error is TOO large.**

**Answer (B): Downloading an AFF table into an Excel Spreadsheet (.xls)**

Click Download > Select the Radio button next to Microsoft Excel (.xls)

OK > (will get a message building file...) > then Download.

Click Open (screen bottom) to view the file.

Close Excel

Click Back to Advanced Search and clear all selections from the Your Selections box

**AFF FEATURES: Address Search, Reference Map Thematic Map of “Service Area”**

8. You want to find data for the **area around a specific address**. (Remember that data are protected for individuals as well as individual households and businesses.)

(a) What is the 2010 census tract number for the Montana Department of Commerce? The address is 301 South Park, Helena, MT 59601.

(b) What was the median household income (in 2011 inflation-adjusted dollars) for this census tract for the period 2007-2011, from the ACS Data Profile DP03, Selected Economic Characteristics?

(c) Make a **reference map** of this Census Tract 8, Lewis & Clark County, MT to identify all the census tracts adjacent to Census Tract 8. We'll call this your service area.

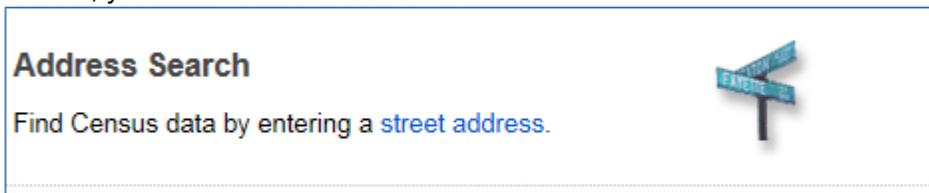
(d) Make a **thematic map** of your service area showing the median household income by census tract (2007-2011 ACS estimate). Customize the map to show two data classes, \$45,000 and below, and more than \$45,000 per year.

**Instructions (a):**

Click on Main Tab in the blue menu bar at the top American FactFinder (AFF) >Main Tab



In the right column toward the bottom of the screen, you will see **Address Search**.



Click on street address

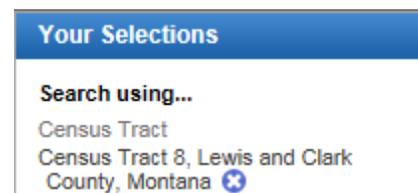
Enter (in street address box) 301 S. Park (in city box) Helena (choose state drop-down) Montana (zip) 59601 = GO (Always double-check resulting address.)

**Answer (a): Census Tract 8, Lewis & Clark County Montana.**

**Instructions (b):**

Click on the hyperlink for *Census Tract 8, Lewis & Clark County Montana*.

After making certain the census tract appears in the Your Selections box, close the Geographies window.



Click on the hyperlink for Selected Characteristics of the Total and Native Population s in The United State (S0601) from the dataset 2014 ACS 5-year estimates and scroll down the table until you find the answer.

**Answer (b): In the period 2010-2014, the median household income in Census Tract 8, Lewis & Clark County, in 2014 inflation-adjusted dollars, was \$20,850 (+/- \$3,335).**

Select “Back to Advanced Search”

..8. You want to find data for the area around a specific address. (Continued)...

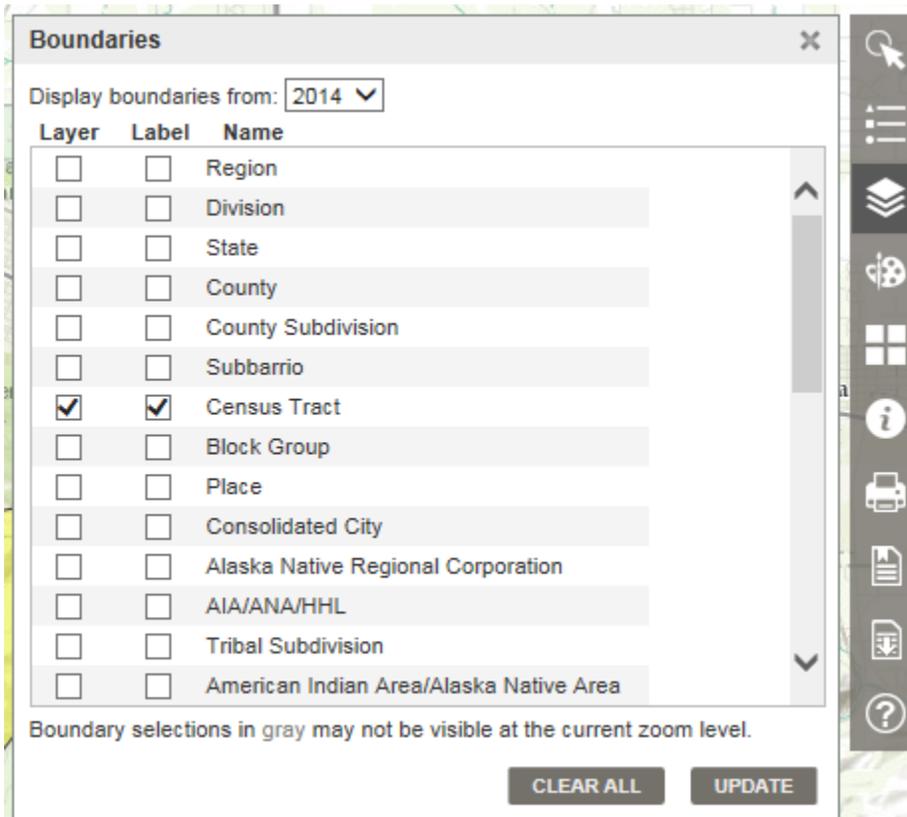
(c) **Make a reference map of this Census Tract 8, Lewis & Clark County, MT to identify all the census tracts adjacent to Census Tract 8. We'll call this your service area.**

**Instructions (c):**

Select the Geographies bar > Map tab  
Under Select Geographies, open the drop-down menu and select Census Tract



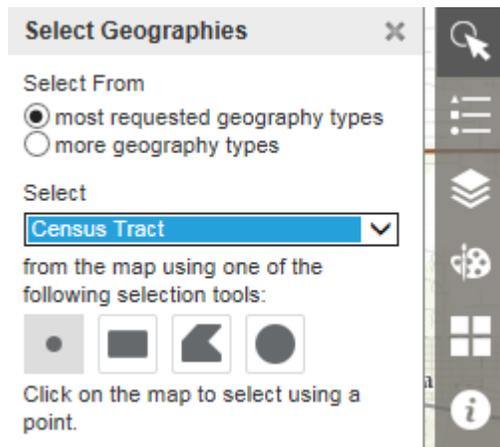
Click on Boundaries and Features Bar> check Boundary and check Label for 2012 Census Tract (Census tracts are redefined once per decade, so the boundaries for 2010 tracts are the same.)



**Scroll to bottom of screen and click Update (don't forget this step!)**

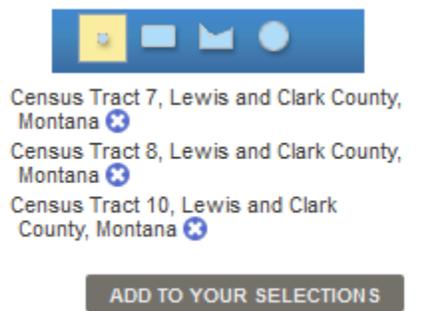
## Select multiple geographies

Click on the first Icon which is a Circle with an Arrow pointed in the middle.  
Next choose Census Tract from the pulldown Select Menu

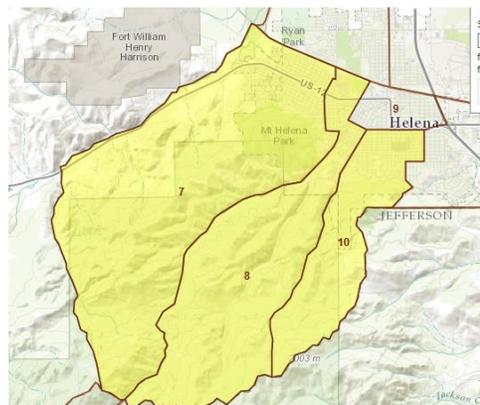
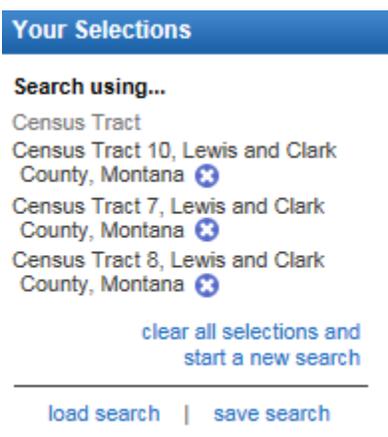


Select Census Tract 7 as the first geography using “select using a point,” from pointer tools at the bottom (the small circle). Then click on Census Tract 8 and then Census Tract 10. Each one will turn grey as selected

**Note that one by one, they will also appear by name below the selection tool icons**

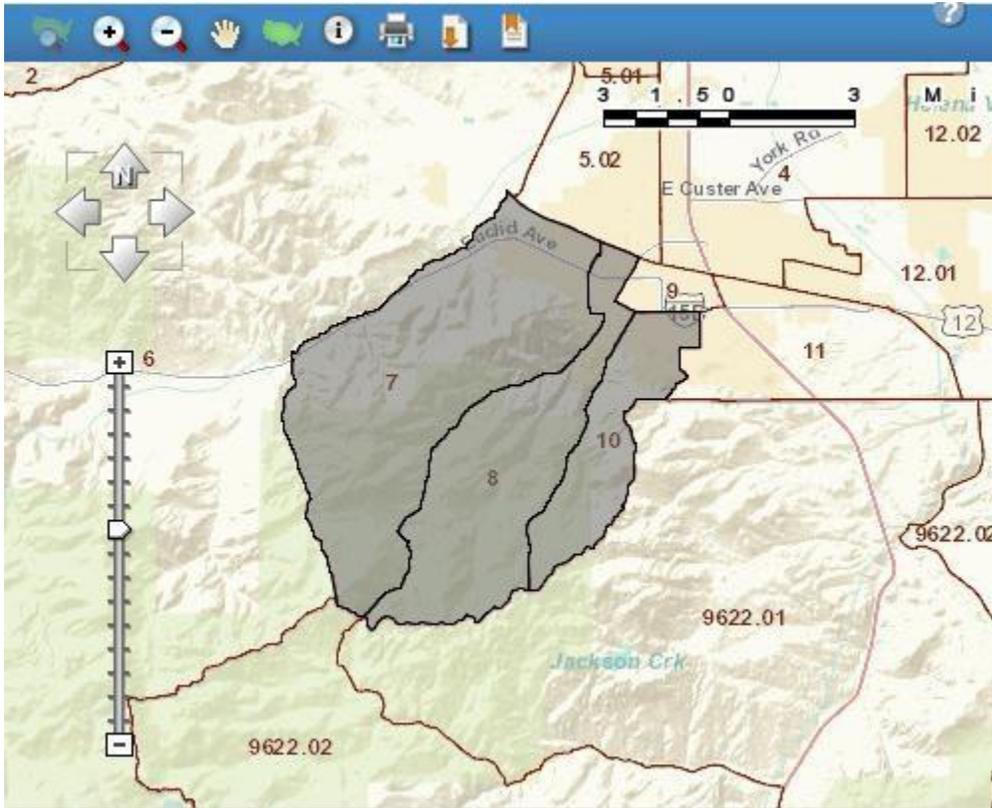


Press the Grey **ADD TO YOUR SELECTIONS** Box. Your Selections and Map should now look as follows:



**...8 Continued You want to find data for the area around a specific address. (Continued)...**

See illustration below of result – this is now your **Reference Map** (no data) of your service area



**(c) Make a thematic map of your service area showing the median household income by census tract (2014 ACS 5 Year estimate). Customize the map to show two data classes, \$45,000 and below, and more than \$45,000 per year.**

Refine your search results text box, enter median household income > GO



Click hyperlink for B19013, Median Household Income in the Past 12 Months (ACS 5-year estimates).

...8. You want to find data for the area around a specific address. (Continued)...

Your Selection Box should show:

**Your Selections**

**Search using...**

Search:  
"Median Household Income" ✕

Census Tract  
Census Tract 10, Lewis and Clark  
County, Montana ✕

Census Tract 7, Lewis and Clark  
County, Montana ✕

Census Tract 8, Lewis and Clark  
County, Montana ✕

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

**Create Map with these 3 Tracts and Median Household Income Data**

Click Create a Map (It will be greyed out if you are not allowed to map data from this table)

Table View 

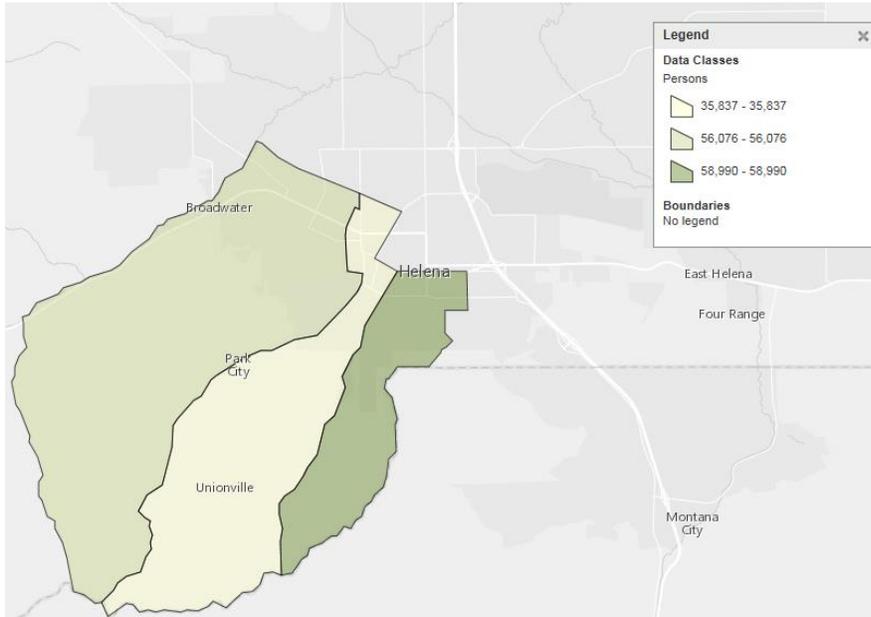
Actions:  [Modify Table](#) |  [Bookmark](#) |  [Print](#) |  [Download](#) |  [Create a Map](#)



**Message will appear – Click on a data value in the table to map. You can only get a map by including a selecting a value from the table**

**Click on value in the column for Census Tract 8, Estimate (value is \$35.837) > Show Map**  
Thematic map displays with comparative percentages displayed by intensity of color

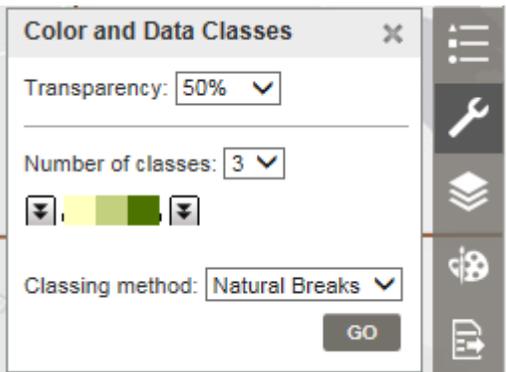
**..8. You want to find data for the area around a specific address. (Continued)...**



### Customize Map

A) To display tract numbers, you again must open Boundaries and Features  
Check Boundary and check Label for 2011 Census Tract > Update

B) For two income groups:  
Open Colors and Data Classes



C) **Change** Number of classes to 2

D) **Change** Classing method = User Defined

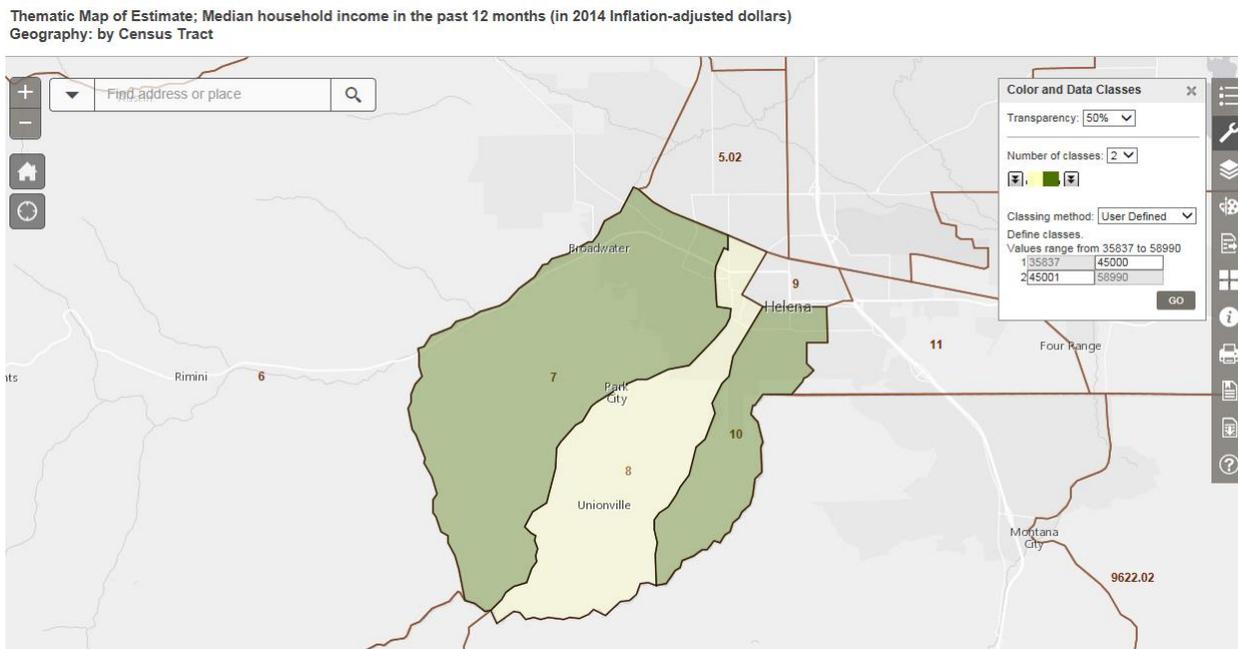
Row 1, column 2 = enter \$45,000 (upper bound)

Put cursor in row 2, column 1 and click enter > value of lower bound autofills to \$45,001 > GO

**See illustration next page**

9. You want to find data for the area around a specific address. (Continued)...

(d) Make a thematic map of your service area showing the median household income by census tract (2014 5 ACS estimate). Customize the map to show two data classes, \$45,000 and below, and more than \$45,000 per year.



### Thematic Map Caveats

(1) Must start with a data table; (2) two or more same level geographies; (3) one theme only per map. If your data source is the ACS, margins of error do not display with the estimates.