

Utilizing Data from American FactFinder with TIGER/Line Shapefiles in ArcGIS

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3 Methods of Acquiring TIGER GIS Files

- Via American Fact Finder
 - Flexible, user may select the geographies of immediate interest
 - Only a single data field per downloaded shapefile
- Via TIGER website
 - Contains index field (GEOID) to join with all downloaded Census Bureau data tables
 - Less flexible, may only download by state or county
- TIGER Geodatabase

www.census.gov Select 'Data Tools and Apps' then 'American FactFinder'

The screenshot shows the Census Bureau website with the following elements:

- Header:** United States Census Bureau logo, navigation links for Topics, Geography, Library, Data, About the Bureau, and Newsroom. A search bar is located in the top right.
- Search Bar:** A red arrow points to the search bar.
- Data Tools and Apps:** A red box highlights the 'Data Tools and Apps' menu item in the top navigation bar. A dropdown menu is open, showing options like Developers, Mobile Apps, Product Catalog, etc. The 'Data Tools and Apps' text in the dropdown is also circled in red.
- American FactFinder:** In the dropdown menu, 'American FactFinder' is circled in red.
- World Population:** A section showing population statistics for June 02, 2014, with a 'Learn More >>' link.
- Stat of the Day:** A section titled 'Asians' with a 'Read More' link.
- Are You in a Survey?:** A promotional banner with a 'Learn more >>' link.

AFF Homepage

United States[™]
Census
Bureau

AMERICAN
FactFinder

Feedback FAQs Glossary Help

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

i Good News! We've released the new American FactFinder. If you're having any issues viewing the new site, [click here](#) for more information.

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 Options

News and Notes

Jan 29, 2013
The Demographic Profile for American Samoa is available...

• Click on Advanced Search



▶ **Community Facts**

▶ **Guided Search**

▼ **Advanced Search**

Search all data in American FactFinder, with access to all geographic types and datasets.

SHOW ME ALL

▶ **Download Center**



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](#).

Using American FactFinder

Learn about American FactFinder's [functions and features](#).

What We Provide

The following data are available on American FactFinder:

- American Community Survey - more » Last data »

News and Notes

GET EMAIL UPDATES



Apr 29, 2014

Data from the 2012 Census of Governments: Finance - Survey of Public Pensions: State- and Locally-Administered Defined Benefit Data...



[view all news, release schedules, and more »](#)

Address Search

Find Census data by entering a [street address](#).



To Select All Cities & Towns in Clinton Co., NY

U.S. Department of Commerce
United States Census Bureau

AMERICAN **FactFinder**

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

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

Your Selections
Your Selections is empty

To search for tables and other files in American FactFinder:
Enter search terms and an optional geography and click GO

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:
..... County Subdivision - 060

Select a state:
New York

Select a county:
Clinton

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

- All County Subdivisions within Clinton County, New York
- Altona town, Clinton County, New York
- Au Sable town, Clinton County, New York
- Beekmantown town, Clinton County, New York
- Black Brook town, Clinton County, New York
- Champlain town, Clinton County, New York
- Chazy town, Clinton County, New York
- Clinton town, Clinton County, New York
- Dannemora town, Clinton County, New York
- Ellenburg town, Clinton County, New York

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.

To Select For Per Capita Income

U.S. Department of Commerce
United States Census Bureau

AMERICAN **FactFinder**

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

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

Your Selections

Search using...
Search: "per capita"
People: Income & Earnings: Income/Earnings (Individuals)
County Subdivision: All County Subdivisions within Clinton County, New York
[clear all selections and start a new 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 69 tables and other products match "Your Selections" per page: 25

Refine your search results:

topics race/ancestry industries occupations

Selected: View Download Compare Clear All

[Reset sort](#) | Show results from: All available years

ID	Table, File or Document Title	Dataset	About
<input checked="" type="checkbox"/>	B19301 PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301A PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301B PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301C PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301D PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301E PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301F PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301G PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301H PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE, NOT HISPANIC OR LATINO)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301I PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO)	2013 ACS 5-year estimates	
<input type="checkbox"/>	B19301 PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301A PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301B PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (BLACK OR AFRICAN AMERICAN ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301C PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (AMERICAN INDIAN AND ALASKA NATIVE ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301D PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (ASIAN ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301E PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301F PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (SOME OTHER RACE ALONE)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301G PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (TWO OR MORE RACES)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301H PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (WHITE ALONE, NOT HISPANIC OR LATINO)	2012 ACS 5-year estimates	
<input type="checkbox"/>	B19301I PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2012 INFLATION-ADJUSTED DOLLARS) (HISPANIC OR LATINO)	2012 ACS 5-year estimates	

The Data Table

U.S. Department of Commerce
United States Census Bureau
AMERICAN FactFinder
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MAIN | COMMUNITY FACTS | GUIDED SEARCH | **ADVANCED SEARCH** | DOWNLOAD CENTER

Advanced Search - Search all data in American FactFinder

1 Advanced Search | **2 Table Viewer** | Result 1 of 1 | VIEW ALL AS PDF

B19301 | PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS)
 Universe: Total population
 2009-2013 American Community Survey 5-Year Estimates

Table View | BACK TO ADVANCED SEARCH

Actions: Modify Table | Bookmark | Print | Download | **Create a Map**

Click on a data value in the table to map. CANCEL

View Geography Notes | View Table 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 estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

<<< 1 - 18 of 30 >>>

	Altona town, Clinton County, New York		Au Sable town, Clinton County, New York		Beekmantown town, Clinton County, New York		Black Brook town, Clinton County, New York		Champlain town, Clinton County, New York		Chazy town, Clinton County, New York		Clinton town, Clinton County, New York		Dannemora town, Clinton County, New York		Ellenburg town, Clinton County, New York	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Per capita income in the past 12 months (in 2013 inflation-adjusted dollars)	21,005	+/-4,610	23,869	+/-2,458	28,417	+/-2,756	25,800	+/-2,614	25,826	+/-2,579	27,340	+/-3,025	22,969	+/-2,985	9,733	+/-2,151	21,139	+/-2,603

Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey

Explanation of Symbols:
 An "*" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

The Map & Download Interface

B19301 PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS)
Universe: Total population ⓘ
2009-2013 American Community Survey 5-Year Estimates

Table View Map View

Actions: Bookmark Print **Download** Show Statistical Significance Create a Different Map

← BACK TO ADVANCED SEARCH

Thematic Map of Estimate: Per capita income in the past 12 months (in 2013 inflation-adjusted dollars)
Geography: by County Subdivision

View Table Notes

Legend

Data Classes
Persons
9733 - 9733
21005 - 22969
23869 - 25826
27340 - 28417
32594 - 32594

Boundaries
State
 '13 County

Features
Major Road
Street
Stream/Waterbody

Items in grey text are not visible at this zoom level

Modify the map using the options below:

Colors and Data Classes ▶

Boundaries and Features ▶

Find a Location ▶

Map Markers ▶

Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey

Download

Select a download format and click OK. ⓘ

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

Presentation-ready formats

PDF
 JPEG image (.jpg)
 Microsoft Excel (.xls)
 Rich Text Format (.rtf)

Orientation
 Portrait Landscape

Paper size
 8 1/2" x 11"
 8 1/2" x 14"

Map Title:

Spatial Data formats

Shapefiles (.zip)
(includes the data used to create the map in .csv format)

[PDF] or indicate a document in Adobe's Portable Document Format. To view the file you will need the [Adobe® Acrobat® Reader](#) available free from Adobe.

OK CANCEL

ACS_13_5YR_B01002_with_ann - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles Cells Editing

A1 GEO.id

	A	B	C	D	E	F	G	H	I	J	
1	GEO.id	GEO.id2	GEO.displ	HD01	VD(C	HD02	VD(C	HD01	VD(C	HD02	VD04
2	Id	Id2	Geograph	Estimate;	Margin of	Estimate;	Margin of	Estimate;	Margin of	Error; Medi	
3	1400000US3400100	34001000100	Census Tr	32.2	1.9	31.1	3.6	33.3	2.8		
4	1400000US3400100	34001000200	Census Tr	46	2.8	46.9	4.3	45.7	9.5		
5	1400000US3400100	34001000300	Census Tr	31.2	3.1	30.4	2.8	32.4	4.3		
6	1400000US3400100	34001000400	Census Tr	45.4	11	40.7	13	48.8	12.6		
7	1400000US3400100	34001000500	Census Tr	29.1	4.3	26.6	3.7	30.7	3.2		
8	1400000US3400100	34001001100	Census Tr	44.2	10.1	44.7	7	38	18.7		
9	1400000US3400100	34001001200	Census Tr	37.9	5.7	30.2	6.6	42.9	4		
10	1400000US3400100	34001001300	Census Tr	35.7	10.7	30.8	12.8	42	12.4		
11	1400000US3400100	34001001400	Census Tr	23.1	3.7	17.2	5.3	28.1	2.9		
12	1400000US3400100	34001001500	Census Tr	38.5	19.7	23.1	11.7	49.1	10.6		
13	1400000US3400100	34001001900	Census Tr	37.6	6.9	38.6	3.4	31	13		
14	1400000US3400100	34001002300	Census Tr	31.6	5.6	34.7	9.5	30.8	5.8		
15	1400000US3400100	34001002400	Census Tr	35.7	9.4	44.5	13.5	32.1	5.1		
16	1400000US3400100	34001002500	Census Tr	50.7	3.1	49.8	3.6	51.9	6.1		

ACS_13_5YR_B01002_with_ann

Ready Count: 9 100%

- Open **ACS_13_5YR_B01002-with_ann**
- Delete Row 1.
- Change the column B header from **Id2** to **GEOID**
- Change the format of the **GEOID** column from **General** to **Text** and **File - Save As - Save as type as Excel Workbook.**

NJMedianAgeBySex - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Cells Editing

B1 GEOID

	A	B	C	D	E	F	G	H	I	J
1	Id	GEOID	Geograph	Estimate;	Margin of	Estimate;	Margin of	Estimate;	Margin of	Error; Medi
2	1400000US3400100	34001000100	Census Tr	32.2	1.9	31.1	3.6	33.3	2.8	
3	1400000US3400100	34001000200	Census Tr	46	2.8	46.9	4.3	45.7	9.5	
4	1400000US3400100	34001000300	Census Tr	31.2	3.1	30.4	2.8	32.4	4.3	
5	1400000US3400100	34001000400	Census Tr	45.4	11	40.7	13	48.8	12.6	
6	1400000US3400100	34001000500	Census Tr	29.1	4.3	26.6	3.7	30.7	3.2	
7	1400000US3400100	34001001100	Census Tr	44.2	10.1	44.7	7	38	18.7	
8	1400000US3400100	34001001200	Census Tr	37.9	5.7	30.2	6.6	42.9	4	
9	1400000US3400100	34001001300	Census Tr	35.7	10.7	30.8	12.8	42	12.4	
10	1400000US3400100	34001001400	Census Tr	23.1	3.7	17.2	5.3	28.1	2.9	
11	1400000US3400100	34001001500	Census Tr	38.5	19.7	23.1	11.7	49.1	10.6	
12	1400000US3400100	34001001900	Census Tr	37.6	6.9	38.6	3.4	31	13	
13	1400000US3400100	34001002300	Census Tr	31.6	5.6	34.7	9.5	30.8	5.8	
14	1400000US3400100	34001002400	Census Tr	35.7	9.4	44.5	13.5	32.1	5.1	
15	1400000US3400100	34001002500	Census Tr	50.7	3.1	49.8	3.6	51.9	6.1	
16	1400000US3400101	34001010101	Census Tr	52.7	2.9	50.8	3.3	54.3	2.6	

ACS_13_5YR_B01002_with_ann

Ready Average: 34019292191 Count: 2011 Sum: 6.83788E+13 100%

- Save your work (we'll call this NJMedianAgeBySex) and close the Excel Workbook.

TIGER/Line Shapefiles and TIGER/Line Files

- TIGER/Line products are free spatial extracts from the Census Bureau's MAF/TIGER database, containing features such as roads, railroads, rivers, as well as legal and statistical boundaries.
 - Since 2007, the files are in shapefile format.
 - They are available for download here:
<http://www.census.gov/geo/maps-data/data/tiger-line.html>

Downloading TIGER/Line Shapefiles

- There are four methods for downloading TIGER/Line Shapefiles:
 - Website Interface
 - Direct from the FTP site
 - Connect via FTP client
 - Direct from Data.gov
- This example will utilize the Website Interface method.
- For additional information about downloading and unzipping TIGER/Line Shapefiles, see the brochure “Downloading TIGER/Line Shapefiles”, available on our “How To” webpage: <http://www.census.gov/geo/education/howtos.html>.

2014 2013 113th CD 2012 2011 2010 2009 2008 2007 2006SE Census 2000 1992

2014 TIGER/Line Shapefiles

All legal boundaries and names are as of January 1, 2014. Released August 19, 2014.

→ **Download**

- [Web interface](#)
- [FTP site](#)

▶ **Technical Documentation**

▶ **File Availability**

▶ **User Notes**

The boundaries shown are for Census Bureau statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement.

- Visit <http://www.census.gov/geo/maps-data/data/tiger-line.html>.
- Click on the **2014** Tab.
- Click **Download**.
- Under **Download by File Type**, Click **Web Interface**.

2014 TIGER/Line® Shapefiles

Select the layer you are interested in from the dropdown menu and click 'submit' for a list of the available geographic areas.

Select a layer type

Source: US Census Bureau, Geography Division

[Documentation](#)
[Access our FTP site for](#)

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2014 TIGER/Line® Shapefiles: Census Tracts

[Return to: Main Download Page](#) | [2014 TIGER/Line Shapefiles Main](#)

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Census Tract

--Select a state--

- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York

BUSINESS & INDUSTRY
 Help With Your Forms
 Economic Indicators
 Economic Census
 E-Stats
 International Trade
 Export Codes
 NAICS
 Governments
 Local Employment Dynamics
 Survey of Business Owners

PEOPLE & HOUSEHOLDS
 2010 Census
 2000 Census
 American Community Survey
 Income
 Poverty
 Population Estimates
 Population Projections
 Health Insurance
 Housing
 International
 Genealogy

SPECIAL TOPICS
 Statistics in Schools
 Tribal Resources (AIAN)
 Emergency Preparedness
 Statistical Abstract
 Special Census Program
 Fraudulent Activity & Scams
 Recovery Act
 USA.gov
 BusinessUSA.gov

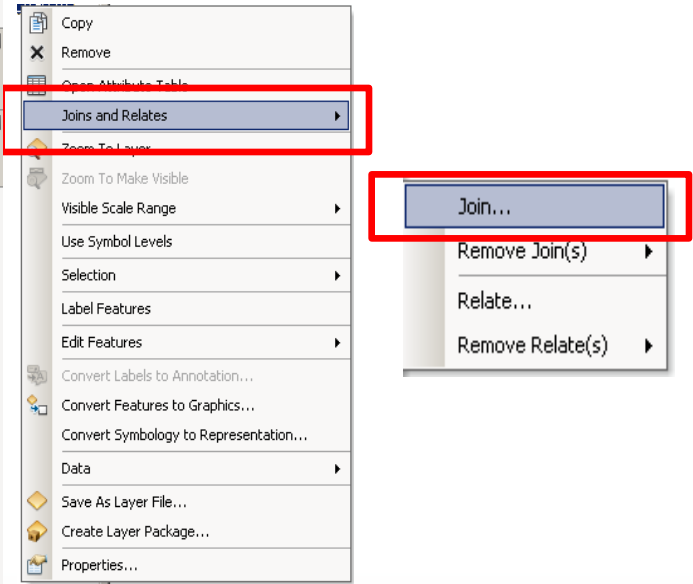
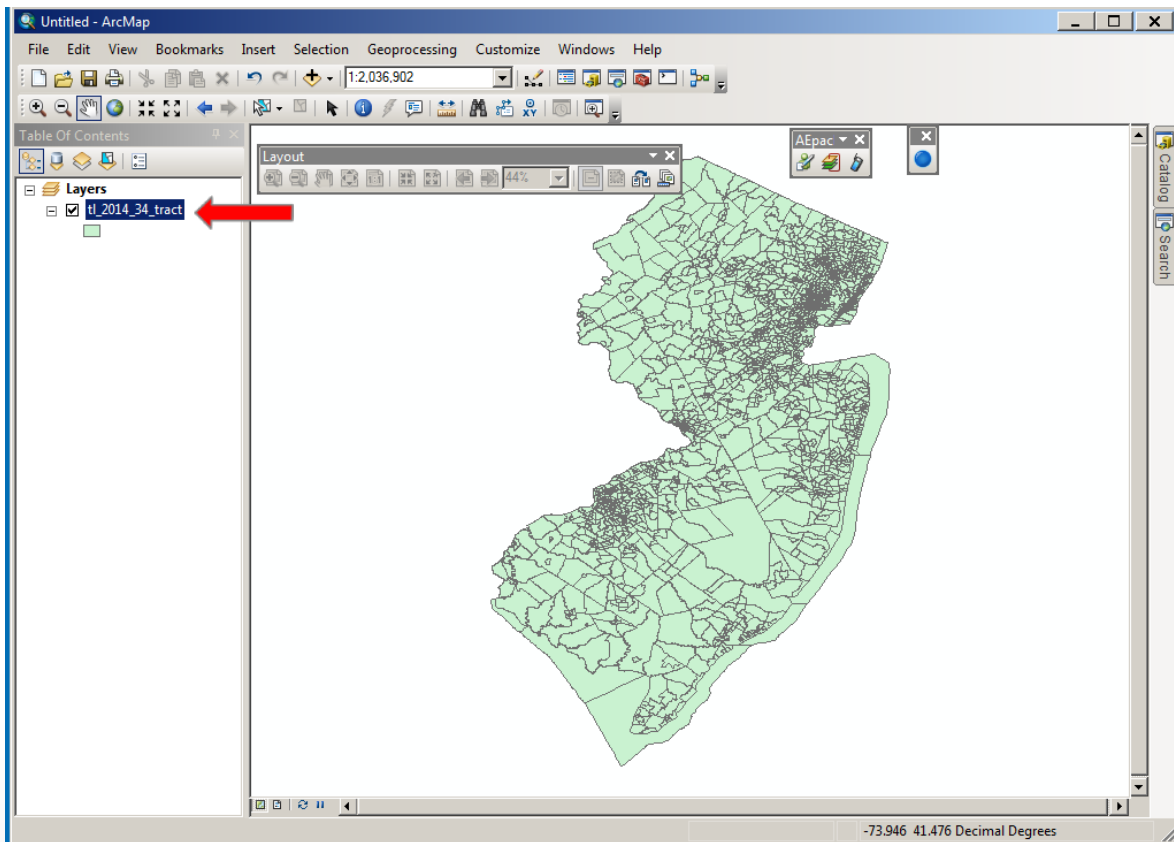
NEWSROOM
 News Releases
 Release Schedule
 Facts for Features
 Blogs
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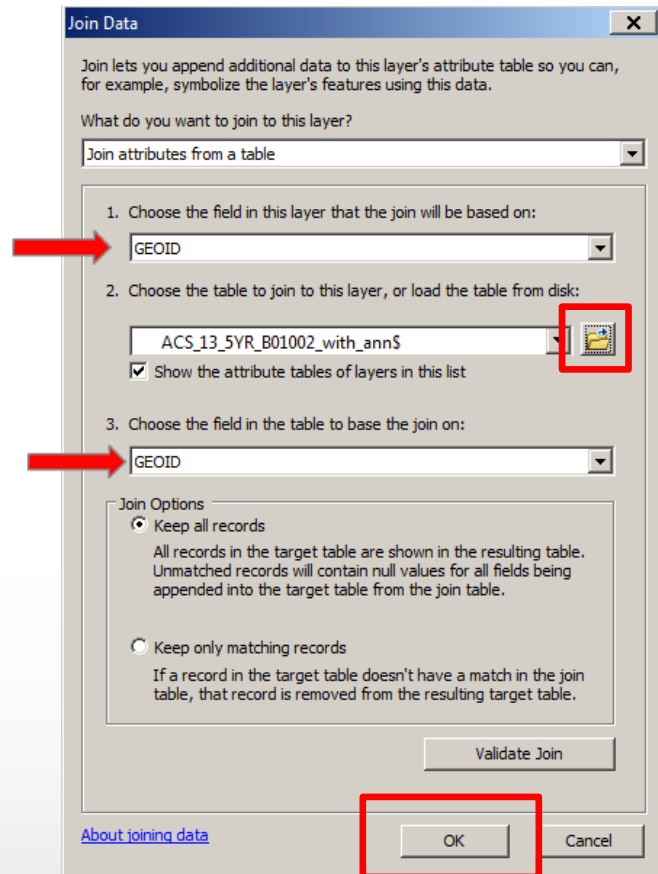
- Select **Census Tracts** in the dropdown menu and click **submit**.
- Under **Census Tract**, Select **New Jersey**, click **Download**.

Open with WinZip



- Right-click on the TIGER/Line Shapefile name.
- Select **Joins and Relates**.
- Select **Join**.

- A new screen appears for you to select the field from the shapefile that will be used to join the data.
 - You want the fully qualified geographic code. It is **GEOID** in the 2010 TIGER/Line Shapefiles.
 - The TIGER/Line Shapefiles technical documentation has more information on the record layouts and definition of each field.
- Next, select the data file you saved as an Excel Workbook, using the browse (open folder icon).
- Finally, choose the field from the data table to base the join on.
 - Since we edited the field name in the Excel Workbook to **GEOID**, ArcGIS automatically selects this field for the join.

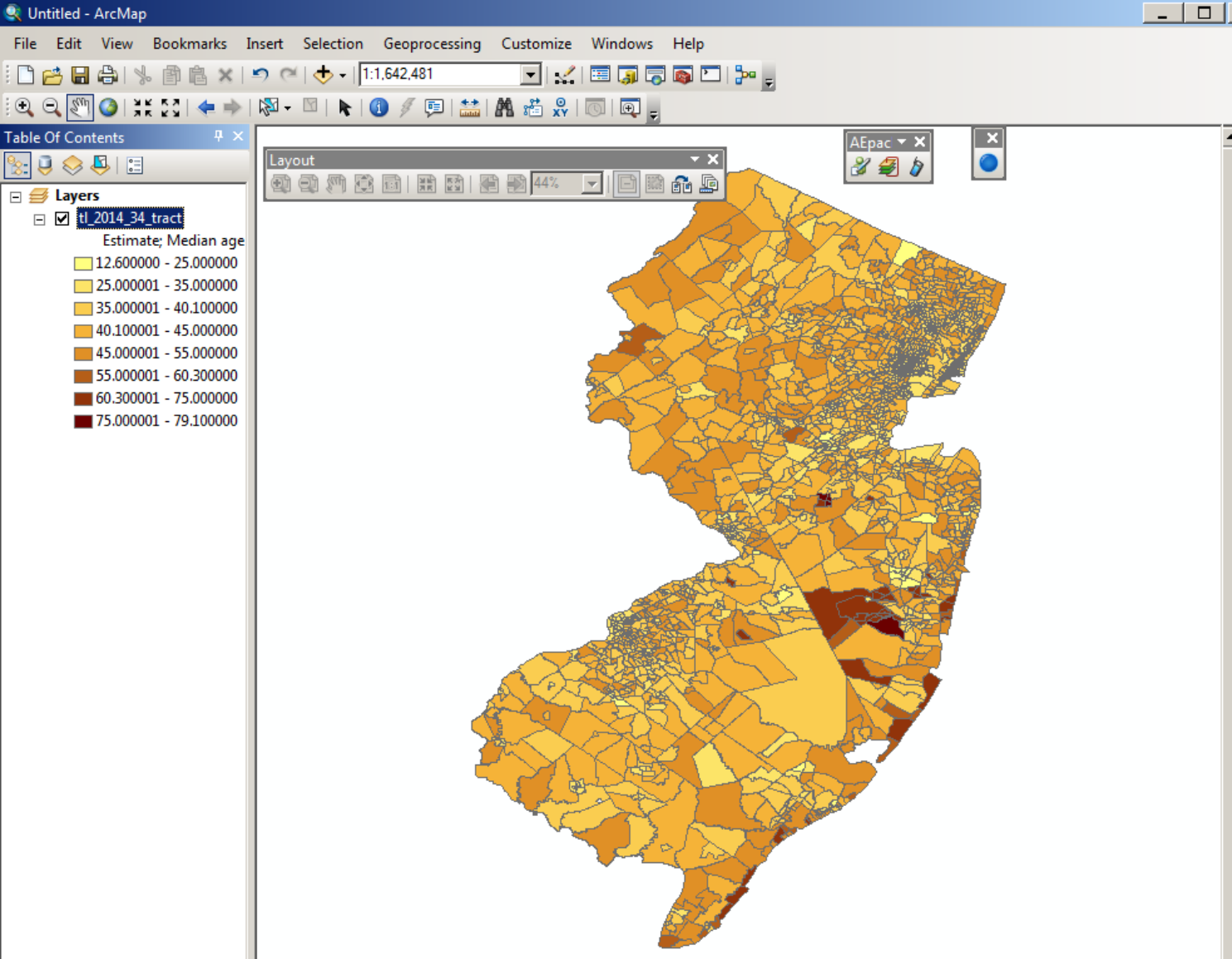


Click **OK**.

The screenshot shows the ArcMap interface with a table view for the layer 'tl_2014_34_tract'. The table has four columns: GEOID, Geography, Estimate; Median age -- Total, and Margin of Error; Median age -- Total. A context menu is open over the table, and the 'Open Attribute Table' option is highlighted with a red box.

GEOID	Geography	Estimate; Median age -- Total	Margin of Error; Median age -- Total
34031256804	Census Tract 2568.04, Passaic County, Ne	44.4	
34031246300	Census Tract 2463, Passaic County, New J	41.2	
34031181200	Census Tract 1812, Passaic County, New J	32	
34031256803	Census Tract 2568.03, Passaic County, Ne	46.4	
34031246003	Census Tract 2460.03, Passaic County, Ne	43.5	

- To see the results, right-click on the TIGER/Line Shapefile name and select **Open Attribute Table**.
 - ArcMap builds a relationship between the shapefile and the data table.
 - The table now has the attributes from both the shapefile and the data table.
- The data can be used to create a thematic map or for other analysis.
- Multiple files can be joined to the shapefile.



New Jersey
 Median Age
 By Census Tract
 2013 American
 Community
 Survey (ACS)
 Estimate

Questions

Regarding TIGER/Line Products:

Visit: www.census.gov/geo

Email: geo.tiger@census.gov

Call: (301) 763-1128 - Geographic Products Branch

Regarding American FactFinder – Data Questions:

Visit:

http://factfinder2.census.gov/faces/nav/jsf/pages/using_factfinder.xhtml

Email: nyro.pds@census.gov

Call: (212) 584- 3440 - NYRO DDS Program

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