



Using American Community Survey Summary File Data

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January 25, 2017

Outline

- **American Community Survey (ACS) basics**
- American FactFinder Download Center
- Overview of ACS Summary File (ACS SF)
- Ways to access the ACS SF
 - Summary File Retrieval Tool
 - DataFerrett
 - Census API
 - FTP site
 - TIGER/Line Shapefiles
- Wrap up

ACS Basics

- Ongoing monthly survey sent to 3.5 million addresses per year to produce detailed population and housing estimates each year
 - Visit 20,000 Group Quarter facilities and sample approximately 194,000 residents each year
- Designed to produce *critical information on small areas and small population groups* previously collected on the decennial long form
- Covers 35+ topics and supports over 300 known Federal Government uses
- Data released twice annually
 - 1-year estimates (12 months of data)
 - 5-year estimates (60 months of data)

The image displays three overlapping representations of the American Community Survey (ACS) materials:

- Top (Paper Questionnaire):** A paper form titled "Housing" with various questions and checkboxes. Questions include: "Which best describes this building?", "How many acres in this house or mobile home?", "Does this house, apartment, or mobile home have...", and "At this house, apartment, or mobile home - do you or any member of this household own or use any of the following computers?".
- Middle (Paper Envelope):** A paper envelope titled "THE American Community Survey" with a circular seal on the left and a return address on the right.
- Bottom (Computer Screen):** A screenshot of the ACS online survey interface. It features a green header with the "United States Census Bureau" logo and the text "American Community Survey". Below the header, it says "Welcome to the American Community Survey. All the information that you provide will remain completely confidential." and "Please Log In". There is a field for "Enter the 10-digit User ID found below the barcode on the materials we mailed to you." and a "Log In" button. A "WARNING" box at the bottom contains legal disclaimers.

ACS Content

Social

Ancestry
Citizenship
Disability
Educational Attainment
Fertility
Grandparents
Language Spoken at Home
Marital Status
Migration
School Enrollment
Veterans

Demographic

Age
Hispanic Origin
Race
Relationship
Sex

Economic

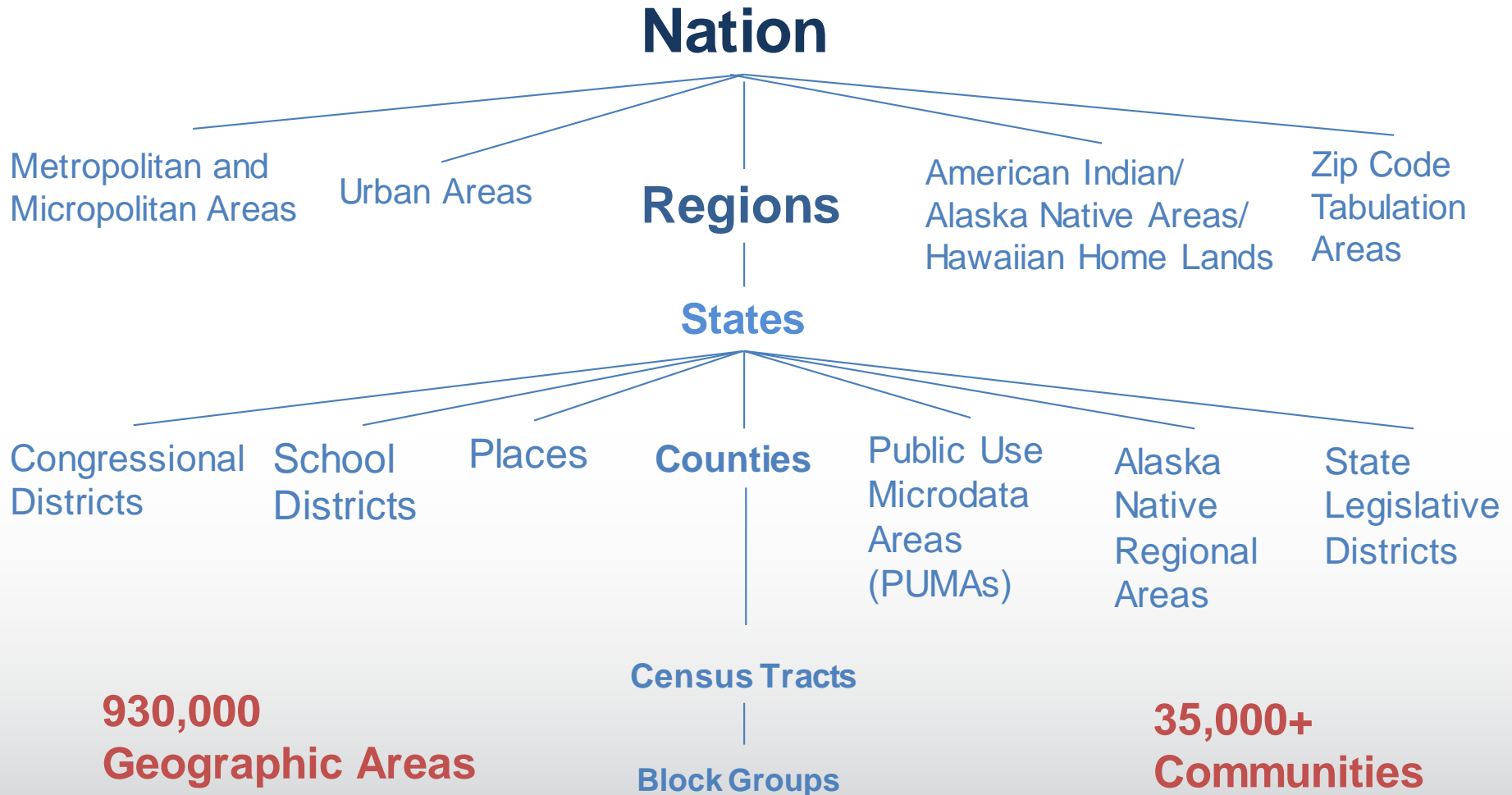
Class of Worker
Commuting
Employment Status
Food Stamps (SNAP)
Health Insurance
Hours/Week, Weeks/Year
Income
Industry & Occupation

Housing

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

35+ Topics → 1000+ Tables → 11 Billion Estimates

Selected Census Geographic Concepts



Availability of ACS Data Products

Estimated Population of Geographic Area	1-Year Estimates	1-Year Supplemental Estimates	5-Year Estimates
65,000 or more	X	X	X
20,000 to 64,999		X	X
Less than 20,000			X
Planned Release Date	September	October	December

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

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AFF Download Center

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

Download Center - A step-by-step guide to downloading data

1 Start 2 Dataset 3 Geographies 4 Search Results

Choose from one of the following and click **Next**.

I know the **dataset** or **table(s)** that I want to download.

I want to find **prepackaged data** that I can download.

*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 »](#)*

PREVIOUS **NEXT** CANCEL

factfinder.census.gov

2-Dataset

The screenshot shows the American FactFinder website's Download Center. The header includes the United States Census Bureau logo and navigation tabs for MAIN, COMMUNITY FACTS, GUIDED SEARCH, ADVANCED SEARCH, and DOWNLOAD CENTER. The main heading is "Download Center - A step-by-step guide to downloading data". A progress bar shows four steps: 1 Start, 2 Dataset (highlighted), 3 Geographies, and 4 Search Results. Below the progress bar, a blue circle icon is followed by the instruction: "Select the program and dataset you're interested in. Click **Next**." The main content area contains two selection steps, both highlighted with red boxes. The first step is "Select a program:" with a dropdown menu showing "American Community Survey". The second step is "Select a dataset and click **Add to Your Selections**:" with a list of datasets. The top item, "2014 ACS 5-year estimates", is highlighted in blue. Below the list is a red "ADD TO YOUR SELECTIONS" button. To the right, a blue "Your Selections" box contains the text "'Your Selections' is empty". At the bottom right are three buttons: "PREVIOUS", "NEXT" (highlighted with a red border), and "CANCEL".

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AMERICAN
FactFinder

MISSOURI
KANSAS
KENTUCKY

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

Download Center - A step-by-step guide to downloading data

1 Start 2 **Dataset** 3 Geographies 4 Search Results

Select the program and dataset you're interested in. Click **Next**.

Select a program:
American Community Survey

Select a dataset and click **Add to Your Selections**:
2014 ACS 5-year estimates
2014 ACS 1-year estimates
2013 ACS 5-year estimates
2013 ACS 3-year estimates
2013 ACS 1-year estimates
2012 ACS 5-year estimates
2012 ACS 3-year estimates
2012 ACS 1-year estimates
2011 ACS 5-year estimates
2011 ACS 3-year estimates

ADD TO YOUR SELECTIONS

Your Selections
"Your Selections" is empty

PREVIOUS **NEXT** CANCEL

3-Geographies

The screenshot shows the American FactFinder website's Download Center. At the top, there is a navigation bar with links for MAIN, COMMUNITY FACTS, GUIDED SEARCH, ADVANCED SEARCH, and DOWNLOAD CENTER. Below the navigation bar, the page title is "Download Center - A step-by-step guide to downloading data". A progress indicator shows four steps: 1 Start, 2 Dataset, 3 Geographies (highlighted), and 4 Search Results. The main content area contains a blue circular icon and the text "Select geographies to add to Your Selections. Click **Next**." Below this is a sub-header: "The download center allows you to select from groups of geographies, such as all counties in a state. To select from all available geographies, use [Advanced Search](#)." The form has four sections: 1. "Select a geographic type:" with a dropdown menu showing "..... Block Group - 150". 2. "Select a state:" with a dropdown menu showing "Michigan". 3. "Select a county:" with a dropdown menu showing "-- select a county --". 4. "Select one or more geographic areas and click **Add to Your Selections**:" with a list box containing "All Block Groups within Michigan". Below the list box is a red button labeled "ADD TO YOUR SELECTIONS". To the right of the form is a "Your Selections" box containing "Search using...", "Dataset: 2014 ACS 5-year estimates", and "Tables matching your selections: 2,282". At the bottom of the "Your Selections" box are three buttons: "PREVIOUS", "NEXT" (highlighted with a red border), and "CANCEL".

4-Search Results

The screenshot shows the American FactFinder interface. At the top, there is a navigation bar with links for MAIN, COMMUNITY FACTS, GUIDED SEARCH, ADVANCED SEARCH, and DOWNLOAD CENTER. Below this is a breadcrumb trail: 1 Start, 2 Dataset, 3 Geographies, and 4 Search Results. The main content area is titled 'Download Center - A step-by-step guide to downloading data'. A blue circle icon indicates the current step: 'Select table(s) to download:'. Below this, a search results box shows 'Search Results: 1-1 of 1 tables and other products match 'Your Selections'' with a 'per page: 25' dropdown. A search refinement box is highlighted with a red border, containing the text 'Refine your search results:' and a 'GO' button. Below the refinement box, a table of results is shown with columns for 'Table, File or Document Title', 'ID', and 'About'. The first row is selected and contains the text 'EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER' and ID 'B23025'. To the right of the table is a 'Your Selections' panel listing the search criteria: 'Search using...' with 'b23025', 'Dataset: 2014 ACS 5-year estimates', 'Block Group within Census Tract', and 'All Block Groups within Michigan'. At the bottom right, there are 'PREVIOUS', 'NEXT', and 'CANCEL' buttons.

United States Census Bureau

AMERICAN FactFinder

MAIN COMMUNITY FACTS GUIDED SEARCH ADVANCED SEARCH DOWNLOAD CENTER

Download Center - A step-by-step guide to downloading data

1 Start 2 Dataset 3 Geographies 4 Search Results

Select table(s) to download:

Search Results: 1-1 of 1 tables and other products match 'Your Selections' per page: 25

topic or table name

Refine your search results: GO

1 Selected: Download Check All Clear All Reset Sort

Table, File or Document Title	ID	About
EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER	B23025	

1 Selected: Download Check All Clear All Reset Sort

Your Selections

Search using...

Search: b23025

Dataset: 2014 ACS 5-year estimates

Block Group within Census Tract

All Block Groups within Michigan

Tables matching your selections: 1

PREVIOUS NEXT CANCEL

Table B23025

	A	B	C	D	E	F	G
1	GEO.id	GEO.id2	GEO.display-label	HD01_VD01	HD02_VD01	HD01_VD02	HD02_VD02
2	Id	Id2	Geography	Estimate; Total:	Margin of Error; Total:	Estimate; In labor force:	Margin of Error; In labor force:
3	1500000US	2.6E+11	Block Group 1, Census Tract 1, Alcona County, Michigan	595	74	174	41
4	1500000US	2.6E+11	Block Group 2, Census Tract 1, Alcona County, Michigan	1040	100	365	60
5	1500000US	2.6E+11	Block Group 1, Census Tract 9701, Alcona County, Michigan	959	79	375	52
6	1500000US	2.6E+11	Block Group 2, Census Tract 9701, Alcona County, Michigan	1136	99	442	65
7	1500000US	2.6E+11	Block Group 1, Census Tract 9704, Alcona County, Michigan	1191	111	523	77
8	1500000US	2.6E+11	Block Group 2, Census Tract 9704, Alcona County, Michigan	1228	118	627	93
9	1500000US	2.6E+11	Block Group 1, Census Tract 9705, Alcona County, Michigan	610	121	250	74
10	1500000US	2.6E+11	Block Group 2, Census Tract 9705, Alcona County, Michigan	528	78	213	50
11	1500000US	2.6E+11	Block Group 3, Census Tract 9705, Alcona County, Michigan	707	87	215	51
12	1500000US	2.6E+11	Block Group 1, Census Tract 9706, Alcona County, Michigan	859	101	313	75
13	1500000US	2.6E+11	Block Group 2, Census Tract 9706, Alcona County, Michigan	571	90	299	61
14	1500000US	2.6E+11	Block Group 0, Census Tract 9900, Alcona County, Michigan	0	10	0	10

Complete instructions at:

[census.gov/programs-surveys/acs/technical-documentation/summary-file-documentation.html](https://www.census.gov/programs-surveys/acs/technical-documentation/summary-file-documentation.html)

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What is the ACS Summary File?

- Set of comma-delimited text files that contain all of the Detailed Tables
- Stored in a series of files on the FTP site
- Files contain only the data from the tables (no information such as table title, description of the rows, etc)
- Data have already been tabulated for specific geographic areas

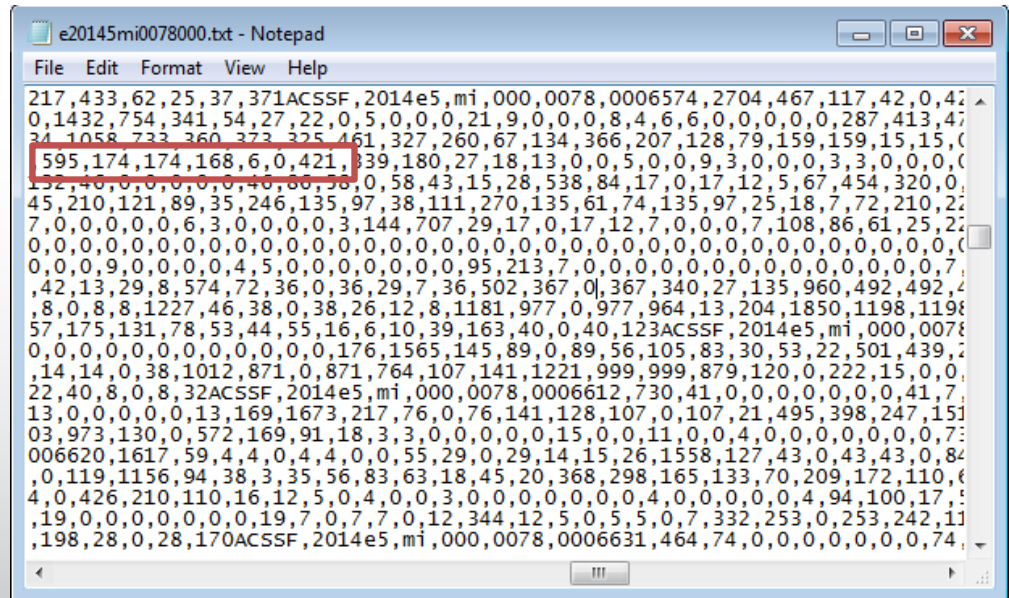
AFF vs. Summary File

B23025

EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER
 Universe: Population 16 years and over ⓘ
 2010-2014 American Community Survey 5-Year Estimates

<< 1 - 18 of 24 >>

	Block Group 1, Census Tract 1, Alcona County, Michigan	
	Estimate	Margin of Error
Total:	595	+/-74
In labor force:	174	+/-41
Civilian labor force:	174	+/-41
Employed	168	+/-40
Unemployed	6	+/-6
Armed Forces	0	+/-10
Not in labor force	421	+/-55



How to Use the ACS SF

- 1—Verify table is available at geography level of interest
(not all tables are published for every geography)
- 2—Use appropriate tool to access ACS SF
 - Summary File Retrieval Tool
 - DataFerrett
 - Census API
 - FTP site
 - TIGER/Line Shapefiles Pre-joined with Demographic Data

Summary File Page

The screenshot shows the 'Summary File Documentation' page for the American Community Survey (ACS). The page is part of the 'Technical Documentation' section. The left sidebar contains a navigation menu with 'Technical Documentation' and 'Summary File Documentation' highlighted. The main content area features a 'Summary File Documentation' heading, social media sharing options, and a detailed description of the ACS Summary File. Below the description is a year selector with '2014' selected. Underneath, there is a 'Technical Document' section listing several PDF files, including '2014 Core Tech Doc' and 'Instructions on How to Read the ACS Summary File into Excel'. At the bottom, there is a section for 'Appendices' with '5-year Appendices' highlighted.

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Search

Topics: Population, Economy | Geography: Maps, Products | Library: Infographics, Publications | Data: Tools, Developers | Surveys/Programs: Respond, Survey Data | Newsroom: News, Blogs | About Us: Our Research

Census.gov | Our Surveys & Programs | American Community Survey (ACS) | Technical Documentation | Summary File Documentation

American Community Survey (ACS)

About the Survey
Respond to the Survey
News & Updates
Data
Guidance for Data Users
Geography & ACS
Technical Documentation
Code Lists, Definitions, and Accuracy
User Notes
Errata
Data Suppression
Table & Geography Changes
Summary File Documentation
PUMS Documentation
Variance Replicate Tables Documentation
Race/Ethnicity and AIAN Release Documentation

Summary File Documentation

Tweet Share

The American Community Survey (ACS) Summary File is a set of comma-delimited text files that contain all of the Detailed Tables for the ACS 1-year, 3-year, and 5-year data releases. Summary File estimates, margins of error, and geography files for each release are available via the [Summary File Data](#) page.

The Detailed Tables are stored in a series of files with only the data from the tables and without such information as the table title, description of the rows, or geographic identifiers. That information is located in other files that the user must merge with the data files to reproduce full tables.

Starting with the 2009-2013 ACS 5-year data release, block groups, the lowest level of geography published by the ACS, are available in American FactFinder. For earlier years, block groups are available only in the ACS 5-year Summary File.

2015 | **2014** | 2013 | 2012 | 2011 | ▶

Technical Document

Core technical document contains information about how to use the ACS Summary File

- 2014 Core Tech Doc [1.0 MB]
- Instructions on How to Read the ACS Summary File into Excel [<1.0 MB]
- Instructions on How to Access ACS Estimates Using the AFF Download Center [1.0 MB]
- Instructions on Joining the ACS Summary File to TIGER/Line Shapefiles [< 1.0 MB]

Appendices include the sequence number and restrictions for all tables, as well as summary levels available for each release

- 1-year Appendices [<1.0 MB]
- 5-year Appendices [<1.0 MB]**

census.gov/programs-surveys/acs/technical-documentation/summary-file-documentation.html

Check Appendix for Table

	A	B	C	D	E
1	Table Number	Table Title	Geography Restrictions	Summary File Sequence Number	Summary File Starting and Ending
680	B23025	Employment Status For The Population 16 Years And Over		0078	38-44
681	B23026	Sex By Work Status In The Past 12 Months By Usual Hours Worked Per Week In The Past 12 Months By Weeks Worked In The Past 12 Months For The Population 65 Years And Over		0078	45-93
682	B23027	Full-Time, Year-Round Work Status In The Past 12 Months By Age For The Population 16 Years And Over		0078	94-129
683	B24011	Occupation By Median Earnings In The Past 12 Months (In 2014 Inflation-Adjusted Dollars) For The Civilian Employed Population 16 Years And Over	No Blockgroups	0079	7-42

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Summary File Retrieval Tool

- Includes datasets through 2012 (i.e., 2008-2012 ACS 5-year estimates)
- Allows users to load tables from the ACS SF into an Excel spreadsheet
- Must have Excel 2007 or newer to run tool
- You can access all tracts and block groups per table per state

census.gov/programs-surveys/acs/data/tools/summary-file-retrieval-tool.html

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DataFerrett

TheDataWeb

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DataFerrett


DataFerrett only works with Microsoft Internet Explorer and Mozilla Firefox. It will not work with Microsoft Edge or Google Chrome.

1/9/2017 - The DataFerrett issue with microdata has been resolved

DataFerrett is a data analysis and extraction tool to customize federal, state, and local data to suit your requirements. Using DataFerrett, you can develop an unlimited array of customized spreadsheets that are as versatile and complex as your usage demands then turn those spreadsheets into graphs and maps without any additional software.


What you should check before getting started:

- ✓ Java Installed: [Check your version](#) or [Download the latest version](#)
- ✓ Allow Pop-ups
- ✓ Run in IE/Firefox



DATAFERRETT

- DataFerrett Home
- Getting Started
- About the Datasets
- User Resources
- FAQs

 Launch DataFerrett

dataferrett.census.gov

Finding Summary Data

DataFerrett

File Edit View Options Special Help

HR2

Introduction Step 1: Select Dataset & Variable Step 2: DataBasket/Download/Make A Table

Select Data Types:

- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data

Refresh Dataset List

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Select Dataset(s) to search:

Search All Datasets

- American Community Survey
 - 3-Year Estimates - Public U
 - 3-Year Estimates - Puerto F
 - 5-Year Estimates - Public U
 - 5-Year Estimates - Puerto F
 - Public Use Microdata Sampl
 - Puerto Rico Public Use Micr
 - Summarized Data
 - 2010-2014
 - 5-Year Summary Fil
 - 2009-2013
 - 2008-2012
 - 2007-2011
 - 2006-2010
 - 2005-2009
 - American Housing Survey
 - Common Core of Data(Educatic

0 Variab

Select Dataset(s) to search:


- B22007, Re
- B22008, M
- B23001, Se
- C23002A, :
- C23002B, S
- C23002C, :
- C23002D, :
- C23002E, S
- C23002F, S
- C23002G, :
- C23002H, :
- C23002I, S
- B23003, Pr
- B23004, W
- B23006, ED
- B23007, Pr
- B23008, Ac
- B23009, Pr
- B23010, PP
- B23013, M
- B23018, Ac
- B23020, M
- B23022, Se
- B23025, F
- C24010
- C24010
- C24010

Description

View Variables

Add all to data basket

Select Geographies



Introduction

Step 1: Select Dataset & Variable

Step 2: DataBasket/Download/Make A Table


Select Data Types:


- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data


Refresh Dataset List

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Variable Labels Names Topics Question Text Values

match ANY word match ALL words  Search

 Instructions

 Empty DataBasket

Select Dataset(s) to search:

- B23004. W
- B23006. ET
- B23007. Pr
- B23008. A
- B23009. Pr
- B23010. PF
- B23013. M
- B23018. A
- B23020. M
- B23022. Se
- B23025. Et**
- C24010. S
- C24010A. :
- C24010B. :
- C24010C. :
- C24010D. :
- C24010E. :
- C24010F. :
- C24010G. :
- C24010H. :
- C24010I. S
- B24011. O
- B24012. Se
- C24020. S
- B24021. O
- B24022. Se
- C24030. S
- B24031. In

Highlight the variables you are interested in

7 Variables returned from search. 8 variables selected in DataBasket.

Browse/Select Highlighted Variables

REQUIRED VARIABLES					
Selected	Topic	Name	Availability	Variable Label	
<input checked="" type="checkbox"/>	Default value selected for you	Selectable Geographies	COMPONENT	2005-2009 - current	Geographic Component
<input checked="" type="checkbox"/>	Needs to be selected	Selectable Geographies	Geography	2005-2009 - current	Geographic Items

REGULAR VARIABLES					
Topic	Name	Availability	Variable Label		Mergeat
B23025. Employment Status for the Population 16 Years and Over	B23025_001E	2007-2011 - 2007-2011	Total:		No
B23025. Employment Status for the Population 16 Years and Over	B23025_002E	2007-2011 - 2007-2011	In labor force:		No
B23025. Employment Status for the Population 16 Years and Over	B23025_003E	2007-2011 - 2007-2011	In labor force:!!Civilian labor force:		No
B23025. Employment Status for the Population 16 Years and Over	B23025_004E	2007-2011 - 2007-2011	In labor force:!!Civilian labor force:!!Employed		No
B23025. Employment Status for the Population 16 Years and Over	B23025_005E	2007-2011 - 2007-2011	In labor force:!!Civilian labor force:!!Unemployed		No
B23025. Employment Status for the Population 16 Years and Over	B23025_006E	2007-2011 - 2007-2011	In labor force:!!Armed Forces		No
B23025. Employment Status for the Population 16 Years and Over	B23025_007E	2007-2011 - 2007-2011	Not in labor force		No

Select Geographies

The screenshot shows a software window titled "Ferrett Geography Codebook" with a close button in the top right corner. The window has a light beige background and contains the following elements:

- Header:** A blue bar with the text "Ferrett Geography Codebook" and a close button (X).
- Information Icon:** A small icon of a lowercase 'i' in a blue square.
- Title:** "Browse/Select Geographies" in bold black text.
- Instructions:** A small illustration of a person sitting at a desk with a computer, followed by the text: "Instructions: Select the type geography from left list. Once selected, either double click or select the hierarchy and click the 'Use Hierarchy' button to navigate that hierarchy."
- Types of geography available:** A list box on the left containing the following items: United States, American Indian/Alaska Native Area and h, Block Group (highlighted in blue), Combined Statistical Area, Congressional District, County, County Subdivision, Division, Legislative District, Metro Area, Place, Public Microdata Use Area, Region, and School District.
- Hierarchies:** A central list box containing the text "State (FIPS Code) > County > Census Tract > Block Group", which is highlighted with a red border.
- Selected Geographic Areas:** An empty rectangular box on the right.
- Buttons:** A row of buttons at the bottom: "Search", "Use Hierarchy", "Cancel", "Delete Selection", "Clear All", and "Finish".

Next Level-State

Ferrett Geography Codebook

Select State (FIPS Code)

Instructions:
Drag geographies to drop into to the right list.
Drag final selections to the "Selected Geographic Areas" list.
Clicking a link at the top will drop directly into that level of the hierarchy.

[Home](#) >> [State \(FIPS Code\)](#) >> [County](#) >> [Census Tract](#) >> [Block Group](#)

Select State (FIPS Code)

- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan**
- Minnesota
- Mississippi
- Missouri

Search:

State (FIPS Code)(s) to drop into.

Michigan

Selected Geographic Areas:

Next Level-County

Ferrett Geography Codebook

Select County

Instructions:
Drag geographies to drop into to the right list.
Drag final selections to the "Selected Geographic Areas" list.
Clicking a link at the top will drop directly into that level of the hierarchy.

[Home](#) >> [State \(FIPS Code\)](#) >> [County](#) >> [Census Tract](#) >> [Block Group](#)

Select County

Select All

- Alcona County, Michigan
- Alger County, Michigan
- Allegan County, Michigan
- Alpena County, Michigan
- Antrim County, Michigan
- Arenac County, Michigan
- Baraga County, Michigan
- Barry County, Michigan
- Bay County, Michigan

Search:

County(s) to drop into.

Clear All Delete Selection

- Alcona County, Michigan
- Alger County, Michigan
- Allegan County, Michigan
- Alpena County, Michigan
- Antrim County, Michigan
- Arenac County, Michigan
- Baraga County, Michigan
- Barry County, Michigan
- Bay County, Michigan
- Benzie County, Michigan
- Berrien County, Michigan

Selected Geographic Areas:

FIPS State Code Count: 1
Michigan

Search Previous Level **Next Level** Cancel Delete Selection Clear All Finish

Next Level-Census Tract

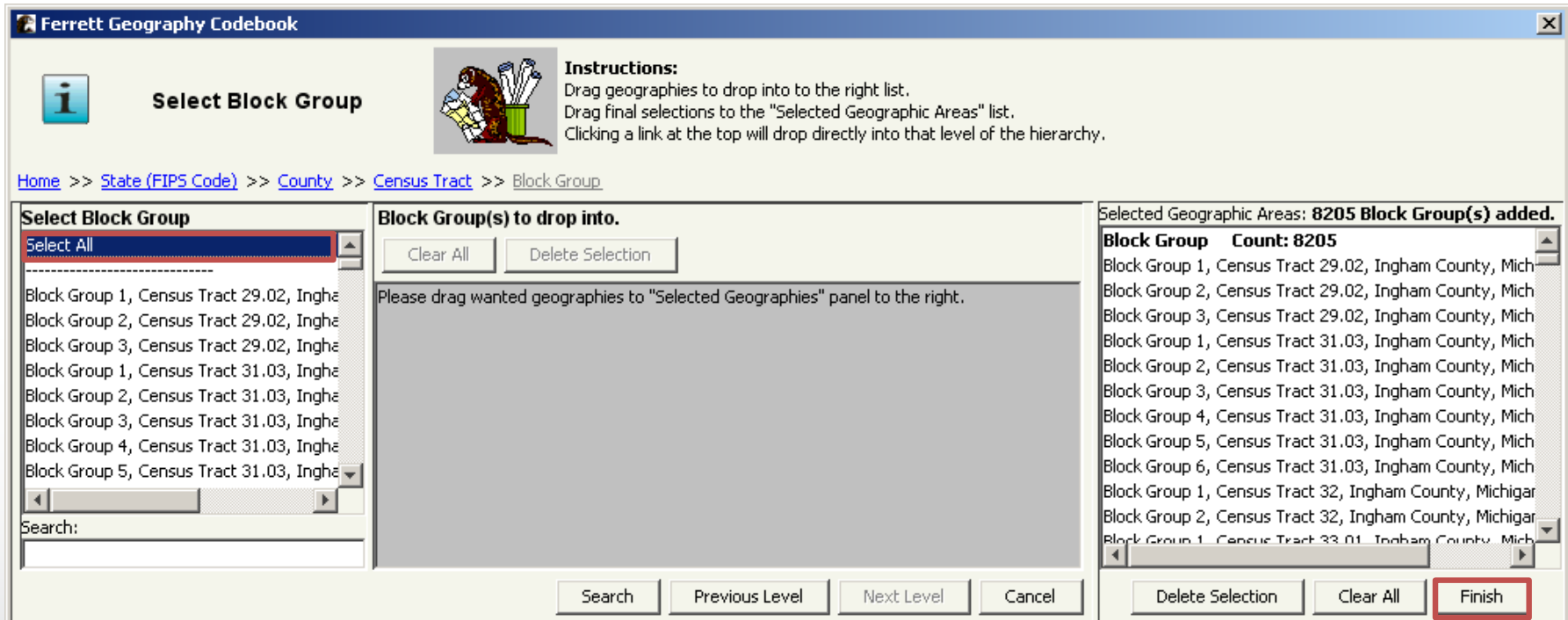
The screenshot shows the 'Ferrett Geography Codebook' application window. The main title is 'Select Census Tract'. Below the title is an information icon and a breadcrumb trail: Home >> State (FIPS Code) >> County >> Census Tract >> Block Group. The interface is divided into three main sections:

- Select Census Tract:** A list box containing various census tracts, including 'Census Tract 1, Alcona County, Michigan' and 'Census Tract 1, Alger County, Michigan'. A search field is located below the list.
- Census Tract(s) to drop into:** A list box showing the selected tracts from the previous section. It includes buttons for 'Clear All' and 'Delete Selection'.
- Selected Geographic Areas:** A table showing the results of the selection process.

At the bottom of the window, there are buttons for 'Search', 'Previous Level', 'Next Level' (highlighted with a red box), 'Cancel', 'Delete Selection', 'Clear All', and 'Finish'.

FIPS State Code	Count: 1
Michigan	

Next Level-Block Group



Ferrett Geography Codebook

Select Block Group

Instructions:
Drag geographies to drop into the right list.
Drag final selections to the "Selected Geographic Areas" list.
Clicking a link at the top will drop directly into that level of the hierarchy.

Home >> State (FIPS Code) >> County >> Census Tract >> Block Group

Select Block Group

Select All

Block Group 1, Census Tract 29.02, Ingha
Block Group 2, Census Tract 29.02, Ingha
Block Group 3, Census Tract 29.02, Ingha
Block Group 1, Census Tract 31.03, Ingha
Block Group 2, Census Tract 31.03, Ingha
Block Group 3, Census Tract 31.03, Ingha
Block Group 4, Census Tract 31.03, Ingha
Block Group 5, Census Tract 31.03, Ingha

Search:

Block Group(s) to drop into.

Clear All Delete Selection

Please drag wanted geographies to "Selected Geographies" panel to the right.

Selected Geographic Areas: 8205 Block Group(s) added.

Block Group Count: 8205

Block Group 1, Census Tract 29.02, Ingham County, Mich
Block Group 2, Census Tract 29.02, Ingham County, Mich
Block Group 3, Census Tract 29.02, Ingham County, Mich
Block Group 1, Census Tract 31.03, Ingham County, Mich
Block Group 2, Census Tract 31.03, Ingham County, Mich
Block Group 3, Census Tract 31.03, Ingham County, Mich
Block Group 4, Census Tract 31.03, Ingham County, Mich
Block Group 5, Census Tract 31.03, Ingham County, Mich
Block Group 6, Census Tract 31.03, Ingham County, Mich
Block Group 1, Census Tract 32, Ingham County, Michigar
Block Group 2, Census Tract 32, Ingham County, Michigar
Block Group 1, Census Tract 33.01, Ingham County, Mich

Search Previous Level Next Level Cancel Delete Selection Clear All **Finish**

Step 2



Introduction

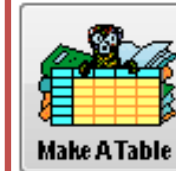
Step1 : Select Dataset & Variable

Step2 : DataBasket/Download/Make A Table

Review your variables then go back to select more variables or go on to get data



Download



Make A Table



Current Query Variables from ACS Summarized Data (5-Year Summary File):

Name	Variable Label	Availability
B23025_001E	Total:	2007-2011 - current
B23025_002E	In labor force:	2007-2011 - current
B23025_003E	In labor force:!!Civilian labor force:	2007-2011 - current
B23025_004E	In labor force:!!Civilian labor force:!!Employed	2007-2011 - current
B23025_005E	In labor force:!!Civilian labor force:!!Unemployed	2007-2011 - current
B23025_006E	In labor force:!!Armed Forces	2007-2011 - current
B23025_007E	Not in labor force	2007-2011 - current
COMPONENT	Geographic Component	2005-2009 - current
GEOG-101	Block Group	2007-2011 - current

Make Table

Formula Bar
Pivot(s) can be dropped on pivot image above R1.

File Edit Format View Options Help

B23025_001E Total:
B23025_002E In labor force:
B23025_003E In labor force:!!Civilian labor force:
B23025_004E In labor force:!!Civilian labor force:!!Emplo
B23025_005E In labor force:!!Civilian labor force:!!Unemp
B23025_006E In labor force:!!Armed Forces
B23025_007E Not in labor force
COMPONENT Geographic Component
B23025_001E Total

Drag and drop a variable(s)
to a column or row.

Results

Ferrett Tabulation

File Edit Format View Options Help

GO Get Data

Col C9

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14
R81	Block Group 3, Census Tract 66, Jackson County, Michigan	1,499	975	975										
R82	Block Group 1, Census Tract 1, Alcona County, Michigan	595	174	174										
R83	Block Group 2, Census Tract 1, Alcona County, Michigan	1,040	365	365										
R84	Block Group 1, Census Tract 9706, Alcona County, Michigan	859	313	313										
R85	Block Group 2, Census Tract 9706, Alcona County, Michigan	571	299	299										
R86	Block Group 1, Census Tract 2, Alger County, Michigan	1,393	597	597										
R87	Block Group 2, Census Tract 2, Alger County, Michigan	1,054	618	618										
R88	Block Group 1, Census Tract 302, Allegan County, Michigan	1,850	1,198	1,198										
R89	Block Group 2, Census Tract 302, Allegan County, Michigan	934	551	551										
R90	Block Group 1, Census Tract 307.03, Allegan County, Michigan	1,156	673	673										
R91	Block Group 2, Census Tract 307.03, Allegan County, Michigan	702	360	360										
R92	Block Group 1, Census Tract 313, Allegan County, Michigan	1,059	726	726										
R93	Block Group 2, Census Tract 313, Allegan County, Michigan	1,661	1,103	1,103										
R94	Block Group 3, Census Tract 313, Allegan County, Michigan	1,011	701	701										
R95	Block Group 1, Census Tract 322, Allegan County, Michigan	2,211	1,414	1,414										
R96	Block Group 2, Census Tract 322, Allegan County, Michigan	837	400	400										
R97	Block Group 3, Census Tract 322, Allegan County, Michigan	907	509	509										
R98	Block Group 1, Census Tract 5, Alpena County, Michigan	540	352	352										
R99	Block Group 2, Census Tract 5, Alpena County, Michigan	500	336	321										
R100	Block Group 3, Census Tract 5, Alpena County, Michigan	472	297	297										
R101	Block Group 0, Census Tract 9900, Alpena County, Michigan	0	0	0										
R102	Block Group 1, Census Tract 9606, Antrim County, Michigan	596	290	290										
R103	Block Group 2, Census Tract 9606, Antrim County, Michigan	438	256	256										
R104	Block Group 3, Census Tract 9606, Antrim County, Michigan	690	368	368										
R105	Block Group 4, Census Tract 9606, Antrim County, Michigan	950	492	492										
R106	Block Group 0, Census Tract 9900, Arenac County, Michigan	0	0	0										
R107	Block Group 1, Census Tract 1, Baraga County, Michigan	470	183	183										
R108	Block Group 2, Census Tract 1, Baraga County, Michigan	1,024	515	515										
R109	Block Group 3, Census Tract 1, Baraga County, Michigan	1,023	579	579										
R110	Block Group 4, Census Tract 1, Baraga County, Michigan	762	423	423										
R111	Block Group 0, Census Tract 9901, Baraga County, Michigan	0	0	0										

B23025_001E Total:
 B23025_002E In labor force:
 B23025_003E In labor force:!!Civilian labor fo
 B23025_004E In labor force:!!Civilian labor fo
 B23025_005E In labor force:!!Civilian labor fo
 B23025_006E In labor force:!!Armed Forces
 B23025_007E Not in labor force
 COMPONENT Geographic Component
 GEOG-102 Block Group

Universe: (COMPONENT in ()
 Weight used:
 DataSet(s) selected: 2010

4:52 PM
 1/21/2016

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Census API


Census.gov > Data > Developers


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](#).

[Read More](#)


MYOM: Make Your Own Maps!


Developers Forum (Gitter.im)


Join the Mailing List



[Request a KEY](#)

Latest

- [Available APIs](#)
- [News](#)
- [Updates](#)

Population Estimates and Projections (2012 - 2016)
December 21, 2016
Both programs use births, deaths, and migration to gauge population change since 2010. Estimates are past and present. Projections are future. Geographies vary.

Annual Survey of Manufactures API (Time Series: 2002-2015)
December 16, 2016
Sample estimates of statistics for all manufacturing establishments with one or more paid employee.

Decennial Census Surname Files (2010, 2000)
December 15, 2016
Tabulations of all surnames occurring 100 or more times in the 2010 Census and Census 2000 returns are provided at the national level only.

[View All Available APIs](#)


census.gov/developers

Available APIs

Census.gov > Data > Developers > Available APIs > American Community Survey 5-Year Data (2009-2015)

Developers

- About this Section
- API Forum
- App Gallery
- Available APIs**
- Geography
- News
- Terms of Service
- Updates



American Community Survey 5-Year Data (2009-2015)

September 15, 2015

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The American Community Survey (ACS) is an ongoing survey that provides data every year -- giving communities the current information they need to plan investments and services. The ACS covers a broad range of topics about social, economic, demographic, and housing characteristics of the U.S. population.

The 5-year estimates from the ACS are "period" estimates that represent data collected over a period of time. The primary advantage of using multiyear estimates is the increased statistical reliability of the data for less populated areas and small population subgroups.

The 5-year estimates are available for all geographies down to the block group level. In total, there are 87 different summary levels available with over 578,000 geographic areas. Unlike the 1-year estimates, geographies do not have to meet a particular population threshold in order to be published. Summary files, Subject tables, Data Profiles, and Comparison profiles include the following geographies: nation, all states (including DC and Puerto Rico), all metropolitan areas, all congressional districts (114th congress), all counties, all places, all tracts and block groups.

- **Summary files** contain the most detailed cross-tabulations, many of which are published down to block groups. The data are population counts. There are over 64,000 variables in this dataset.
- **Subject tables** provide an overview of the estimates available in a particular topic. The data are presented as population counts and percentages. There are over 66,000 variables in this dataset.
- **Data profiles** contain broad social, economic, housing, and demographic information. The data are presented as population counts and percentages. There are over 2,400 variables in this dataset.
- **Comparison profiles** are similar to data profiles but also include comparisons with past-year data. The current year data are compared with prior 5-Year data and include statistical significance testing. There are over 3,000 variables in this dataset.

For more information about the data available in the ACS, please visit their [data users page](#).

Comparing American Community Survey Data


ACS has non-overlapping datasets that allow comparisons of current ACS data to past ACS data. The 2011-2015 ACS 5-Year estimates can be compared with 2006-2010 ACS 5-Year estimates. For information on comparability of the 2011-2015 ACS 5-Year estimates to the 2006-2010 estimates by topic, go to [Comparison Guidance for 5-Year data](#).

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

2015	2014	2013	2012	2011	▶
------	------	------	------	------	---

*If you have previously used variables in prior year releases, check the [ACS product changes](#) webpage for source table changes. If the variable you have been using comes from a table that has changed from the prior year, check the [variables list \(variables.html\)](#) and compare the variable concept and label to be sure you are requesting the correct estimate.

Use this [Data Profile Variable Comparison](#) table to check if your Data Profile variable has changed from 2014 to 2015:

 [Data Profile Comparison](#) [<1.0 MB]

Summary File

- Example Call: `api.census.gov/data/2015/acs5?get=NAME,B01001_001E&for=state:&key=...`
- [2015 ACS Summary File Variables \[html | xml | json \]](#)
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Table B23025



api.census.gov/data/2014/acs5?get=NAME,B23025_001E&for=block+group:*&in=state:26+county:001

```
[["NAME", "B23025_001E", "state", "county", "tract", "block group"],
["Block Group 1, Census Tract 1, Alcona County, Michigan", "595", "26", "001", "000100", "1"],
["Block Group 2, Census Tract 1, Alcona County, Michigan", "1040", "26", "001", "000100", "2"],
["Block Group 1, Census Tract 9701, Alcona County, Michigan", "959", "26", "001", "970100", "1"],
["Block Group 2, Census Tract 9701, Alcona County, Michigan", "1136", "26", "001", "970100", "2"],
["Block Group 1, Census Tract 9704, Alcona County, Michigan", "1191", "26", "001", "970400", "1"],
["Block Group 2, Census Tract 9704, Alcona County, Michigan", "1228", "26", "001", "970400", "2"],
["Block Group 1, Census Tract 9705, Alcona County, Michigan", "610", "26", "001", "970500", "1"],
["Block Group 2, Census Tract 9705, Alcona County, Michigan", "528", "26", "001", "970500", "2"],
["Block Group 3, Census Tract 9705, Alcona County, Michigan", "707", "26", "001", "970500", "3"],
["Block Group 1, Census Tract 9706, Alcona County, Michigan", "859", "26", "001", "970600", "1"],
["Block Group 2, Census Tract 9706, Alcona County, Michigan", "571", "26", "001", "970600", "2"],
["Block Group 0, Census Tract 9900, Alcona County, Michigan", "0", "26", "001", "990000", "0"]]
```

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









Summary File Organization

Name	Last modified	Size	Description
Parent Directory		-	
1_year_by_state/	31-Aug-2015 13:56	-	
1_year_entire_sf/	31-Aug-2015 13:56	-	
1_year_seq_by_state/	31-Aug-2015 15:16	-	
5_year_by_state/	19-Nov-2015 09:19	-	
5_year_entire_sf/	19-Nov-2015 09:58	-	
5_year_seq_by_state/	20-Nov-2015 11:14	-	
2014_1yr_Summary_FileTemplates.zip	14-Jan-2016 08:54	1.8M	
2014_5yr_Summary_FileTemplates.zip	03-Dec-2015 13:44	1.3M	

Name	Last modified	Size	Description
Parent Directory		-	
All_Geographies_Not_Tracts_Block_Groups/	20-Nov-2015 09:31	-	
Tracts_Block_Groups_Only/	20-Nov-2015 09:27	-	

www2.census.gov/programs-surveys/acs/summary_file/2014/data

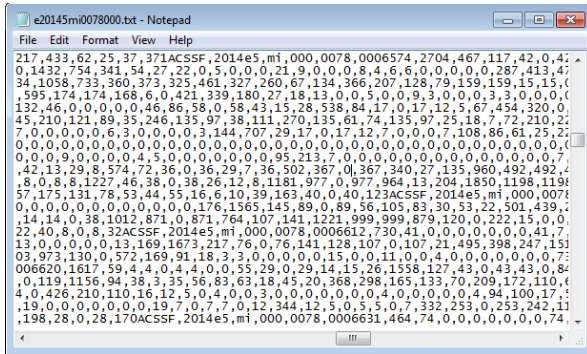
File Naming

	20145mi0075000.zip	20-Nov-2015 09:24	1.1M
	20145mi0076000.zip	20-Nov-2015 09:24	1.1M
	20145mi0077000.zip	20-Nov-2015 09:25	3.6M
	20145mi0078000.zip	20-Nov-2015 09:24	2.3M
	20145mi0079000.zip	20-Nov-2015 09:27	2.8M
	20145mi0080000.zip	20-Nov-2015 09:25	2.1M
	20145mi0081000.zip	20-Nov-2015 09:25	2.3M
	20145mi0082000.zip	20-Nov-2015 09:25	1.4M
	20145mi0083000.zip	20-Nov-2015 09:24	1.9M
	20145mi0084000.zip	20-Nov-2015 09:25	69K
	20145mi0085000.zip	20-Nov-2015 09:24	69K
	20145mi0086000.zip	20-Nov-2015 09:24	59K
	20145mi0087000.zip	20-Nov-2015 09:25	69K
	20145mi0088000.zip	20-Nov-2015 09:24	69K
	20145mi0089000.zip	20-Nov-2015 09:24	59K
	20145mi0090000.zip	20-Nov-2015 09:25	69K

2014 5 mi 0078 000.zip

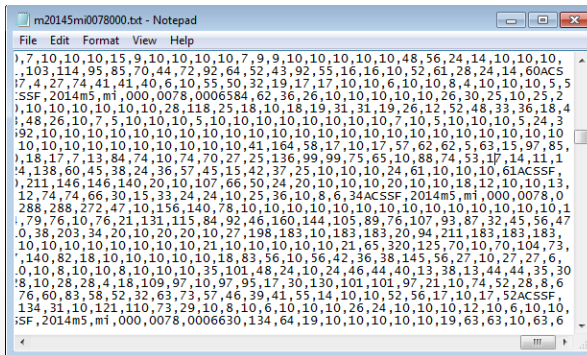
- 2014=reference year
- 5=period covered
- mi=state level
- 0078=sequence number
- 000=iteration ID

Estimate, MOE, Geography Files



Estimate file

e20145mi0078000.txt



Margin of error file

m20145mi0078000.txt

14000US26165380800	Census Tract 3808, Wexford County, Michigan
15000US260010001001	Block Group 1, Census Tract 1, Alcona County, Michigan
15000US260010001002	Block Group 2, Census Tract 1, Alcona County, Michigan
15000US260019701001	Block Group 1, Census Tract 9701, Alcona County, Michigan
15000US260019701002	Block Group 2, Census Tract 9701, Alcona County, Michigan
15000US260019704001	Block Group 1, Census Tract 9704, Alcona County, Michigan
15000US260019704002	Block Group 2, Census Tract 9704, Alcona County, Michigan
15000US260019705001	Block Group 1, Census Tract 9705, Alcona County, Michigan
15000US260019705002	Block Group 2, Census Tract 9705, Alcona County, Michigan
15000US260019705003	Block Group 3, Census Tract 9705, Alcona County, Michigan
15000US260019706001	Block Group 1, Census Tract 9706, Alcona County, Michigan
15000US260019706002	Block Group 2, Census Tract 9706, Alcona County, Michigan
15000US260019900000	Block Group 0, Census Tract 9900, Alcona County, Michigan

Geography file

g20145mi.csv or g20145mi.txt

Templates

	A	B	C	D	E	F	AL	AM	AN	AO	AP	AQ	AR
1	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	B23025_001	B23025_002	B23025_003	B23025_004	B23025_005	B23025_006	B23025_007
2	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER for Population 16 years and over	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In labor force:	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In Civilian labor force:	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In labor force: Civilian labor force: Employed	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In labor force: Civilian labor force: Unemployed	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In labor force: Armed Forces	EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER% In labor force: Not in labor force
2816	ACSSF	2.01E+08	mi	0	78	6581	595	174	174	168	6	0	421
2817	ACSSF	2.01E+08	mi	0	78	6582	1040	365	365	315	50	0	675
2818	ACSSF	2.01E+08	mi	0	78	6583	959	375	375	341	34	0	584
2819	ACSSF	2.01E+08	mi	0	78	6584	1136	442	442	412	30	0	694
2820	ACSSF	2.01E+08	mi	0	78	6585	1191	523	523	453	70	0	668
2821	ACSSF	2.01E+08	mi	0	78	6586	1228	627	627	535	92	0	601
2822	ACSSF	2.01E+08	mi	0	78	6587	610	250	250	205	45	0	360
2823	ACSSF	2.01E+08	mi	0	78	6588	528	213	213	170	43	0	315

www2.census.gov/programs-surveys/acs/summary_file/2014/data/2014_5yr_Summary_FileTemplates.zip

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TIGER/Line Shapefiles Pre-joined with Demographic Data

TIGER/Line® with Selected Demographic and Economic Data

A limited set of TIGER/Line Shapefiles are available pre-joined with data in geodatabase and shapefile format.



American Community Survey 5-Year Estimates — Geodatabase Format

→ 2010 - 2014 Detailed Tables

→ 2009 - 2013 Detailed Tables

→ 2008 - 2012 Detailed Tables

→ 2007 - 2011 Block Group Data

→ 2007 - 2011 Data Profiles

→ 2006 - 2010 Block Group Data

→ 2006 - 2010 Data Profiles

census.gov/geo/maps-data/data/tiger-data.html

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Summary File Documentation

Census.gov > Our Surveys & Programs > American Community Survey (ACS) > Technical Documentation > Summary File Documentation

American Community Survey (ACS)

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Summary File Documentation

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Geography & ACS

Technical Documentation

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Race/Ethnicity and AIAN Release Documentation

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Respond to the ACS
Learn how

The American Community Survey (ACS) Summary File is a set of comma-delimited text files that contain all of the Detailed Tables for the ACS 1-year, 3-year, and 5-year data releases. Summary File estimates, margins of error, and geography files for each release are available via the Summary File Data page.





The Detailed Tables are stored in a series of files with only the data from the tables and without such information as the table title, description of the rows, or geographic identifiers. That information is located in other files that the user must merge with the data files to reproduce full tables.

Starting with the 2009-2013 ACS 5-year data release, block groups, the lowest level of geography published by the ACS, are available in American FactFinder. For earlier years, block groups are available only in the ACS 5-year Summary File.



2015 2014 2013 2012 2011 ▶

Technical Document

Core technical document contains information about how to use the ACS Summary File

-  2015 Core Tech Doc [1.0 MB]
-  Instructions on How to Read the ACS Summary File into Excel [1.0 MB]
-  Instructions on How to Access ACS Estimates Using the AFF Download Center [1.0 MB]
-  Instructions on Joining the ACS Summary File to TIGER/Line Shapefiles [<1.0 MB]


Appendices include the sequence number and restrictions for all tables, as well as summary levels available for each release

-  1-year Appendices [<1.0 MB]
-  5-year Appendices [<1.0 MB]

Summary File User Tools

Table Shells

Contains table ID, line number, unique ID (table ID + Line Number), stub, and data release

-  Table Shells [2.3 MB]

Sequence Number/Table Number Lookup File

Contains information on the relationship between the sequences and the tables

census.gov/programs-surveys/acs/technical-documentation/summary-file-documentation.html

Options for Accessing Bulk Data

Tool	Advantage of Using Tool
AFF Download Center	Download one geographic type at a time, maximum of 40 tables
SF Retrieval Tool	Looking for older datasets (through 2012)
DataFerrett	Downloading a large number of geographic areas for a small number of tables
Census API	Call only the variables and geographies you need
FTP Site	Includes every Detailed Table for every geography

Continue the Conversation #ACsdata



Sign up for and manage alerts at
<https://public.govdelivery.com/accounts/USCENSUS/subscriber/new>



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



(800) 923-8282 or
(301) 763-1405



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youtube.com/user/uscensusbureau



instagram.com/uscensusbureau



pinterest.com/uscensusbureau



linkedin.com/company/us-census-bureau

The logo features a stylized graphic of blue and orange dots arranged in a semi-circular pattern on the left. To the right, the text "AMERICAN COMMUNITY SURVEY" is in blue, and "DATA USERS GROUP" is in orange, both in a serif font.

AMERICAN COMMUNITY SURVEY DATA USERS GROUP

- Purpose:
 - Improve understanding of the value and utility of ACS data.
 - Promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
- Webinars and special sessions at professional meetings planned
- Users group website and online community

acsdatacommunity.prb.org

Need Local Stats?

- Assistance Near You!

Our regional data staff can help you access local statistics from the ACS or offer training to help build your skills. Contact us at:

1-844-ASK-DATA

(1-844-275-3282)

census.askdata@census.gov



Questions?