

Version 1

The 2010-2012 ACS 3-Year Summary File Technical Documentation

American Community Survey
Population and Housing Characteristics



United States[™]
Census
Bureau

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1 Introduction

1.1 The American Community Survey

The American Community Survey (ACS) is a household survey conducted by the U.S. Census Bureau that currently has an annual sample size of about 3.5 million addresses. When used in conjunction with the most recently available decennial census counts, information from the ACS documents how we live as a nation, including our education, housing, jobs, and many other issues. Information from the survey generates statistics that help determine how more than \$450 billion in federal funds are distributed annually, to help decision making for states, localities, tribal governments, and business. Each year the survey produces statistics that cover the periods of 1-year, 3-year, and 5-years geographic areas in the United States and Puerto Rico, ranging from neighborhoods to Congressional districts to the entire nation. For more information about the ACS, please visit our home page, www.census.gov/acs. ACS tables are published on the Census Bureau's American FactFinder (AFF) website, factfinder2.census.gov, and are available for download in several forms. This document will brief data users on the contents of the ACS Summary File and explain how they can use it to obtain the 3-year estimates.

1.2 The American Community Survey Summary File

The American Community Survey Summary File (ACSSF) is a unique data product that includes all the estimates and margins of error from the Detailed Tables and geographies that are published for the ACS. Other ACS data products such as Subject Tables and Data Profiles are created from the Detailed Tables and are therefore not available in the Summary File.

Since the Detailed Tables contain a large number of cells, the tables are stored in a series of files with only the data from the tables; the title of the tables, the description of the rows, and the names of the geographic areas are not included. That information appears in other files that the user must merge with the data files to reproduce the tables.

The ACS Summary File data files are in American Standard Code for Information Interchange (ASCII) format. The files are divided into three types:

- Geographies – (position based and comma delimited)
- Estimates – (comma delimited)
- Margins of Error – (comma delimited)

[Chapter 2](#) discusses each component in detail and explains how to put them all together.

1.3 Topics and Geographies Covered

Data contained in the ACS Summary File cover demographic, social, economic, and housing subject areas. All Detailed Tables for the ACS 3-year estimates are in the Summary File and are listed in [Appendix E](#).

The published ACS Summary File geographies cover areas that are based on “summary levels.” A summary level specifies the content and the hierarchical relationships of the geographic elements that are required to tabulate and summarize data. For example, summary level code “040” represents the U.S., states, Washington D.C., and Puerto Rico; while summary level code “050” represents counties and county equivalents within states.

In addition to the summary level concept, the ACS 3-year estimates are published for areas that have passed the required 20,000-population threshold.

Many resources are available to help users understand the ACS geographic terms and concepts. For additional information, please visit <http://www.census.gov/geo/reference/index.html> and http://www.census.gov/acs/www/guidance_for_data_users/geography/. Users may also find the full list of summary levels published for the 3-year Detailed Tables in [Appendix F](#).

1.4 Tools for Obtaining Data

Since using the ACS Summary File can be challenging, users should first check if their tables of interest are available for download on American FactFinder. Below are some other options to help users retrieve the tables they want. They are listed in order based on ease of use.

- Summary File Excel Retrieval Tool

The Summary File Excel Retrieval Tool is a macro-driven Excel spreadsheet that provides a method to easily retrieve a table for the nation, states, and all of the geographic areas in a state (or for all cross-state geographic areas such as metropolitan statistical areas or census regions). This tool is designed to be easy to use, and does not require any programming experience. There is a drop down menu from which the user can select the state for the table and receive data for all geographies within the state. One key requirement is that Microsoft Excel 2007 or later is needed. Other hardware and software requirements for the tool are listed in [Chapter 3.1](#). For more information about the application, visit the ACS Summary File page at www.census.gov/acs/www/data_documentation/summary_file/.

- Summary File Excel Import Tool

The Summary File Excel Import Tool is a replicate of the Excel templates that Census 2000 provided for the SF3 summary file release. The Excel Import Tool provides a basic layout of each sequence in Excel in the same format as the estimate and margin of error files are formatted. For individuals that do not have Excel 2007 or later and are unable to

use the Excel Retrieval Tool, the Excel Import Tool provides an alternative option to read the summary file into Excel. For more information on this tool, see [Chapter 3.3](#).

- **SAS Programs**

There are two programming options for SAS users. The first option is a set of individual SAS programs, one for each summary file by geography and sequence. These programs are best for users only interested in looking at a specific sequence for a specific geography. The second option is a single SAS program that is parameterized to allow users to read in any sequence for any geography into SAS. This program can also be used to read the entire summary file into SAS, and is designed for users looking for a large amount of data. For more information on these programs, see [Chapter 3.1](#).

1.5 Contact Us

Please send any technical questions or comments on the ACS Summary File you have via email to: acso.users.support@census.gov. If you have questions or comments about the American Community Survey, you can submit a question online at ask.census.gov/.

2 How to Use the ACS Summary File

2.1 Locating the Summary File

The 2010-2012 ACS 3-year Summary File is accessible from the American Community Survey home page. From the ACS home page, www.census.gov/acs, click on the **Data and Documentation** tab, select the option for **Summary File**, as shown below:

The screenshot shows the American Community Survey website interface. At the top, there is a navigation bar with the following links: People, Business, Geography, Data, Research, and Newsroom. Below this, there is a search bar and a dropdown menu for 'Data & Documentation'. The 'Data & Documentation' menu is open, showing several options: Data Releases, Data Product Descriptions, Documentation, Geography, Downloadable data via FTP, Summary File (highlighted with a white arrow), Public Use Microdata Sample (PUMS), and Custom Tabulations. The main content area features a 'Question Corner' for Survey Respondents, a 'What is the American Community Survey?' section with an American flag image, and a 'Data by Topic' section with links to various demographic categories like Age and Sex, Ancestry, and Education.

That will take you to the ACS Summary File page. Click on **3-year Summary File** to go to the ACS Summary File ftp site:

Summary File

An 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 or 5-year estimates. For example, the 2008 ACS 1-year Summary File includes hundreds of comma-delimited text files that are best viewed in a spreadsheet or using statistical software.

2012	2011	2010	2009	2008	2007	2006	2005
------	------	------	------	------	------	------	------

Summary File Data and Documentation

2012 ACS 1-Year Estimates	2010-2012 ACS 3-Year Estimates	2008-2012 ACS 5-Year Estimates
1-Year Summary File 1-Year Tech Document [PDF 3.4MB] 1-Year TableShells [XLS 45MB] 1-Year Sequence/Table Number Lookup (xls, sas7bdat, or txt)	Planned release - October 2013	Planned release - December 2013

Name	Last modified	Size	Description
Parent Directory		-	
2012 ACSSF All In 1 Giant File (Experienced-Users-Only)/	04-Sep-2013 15:33	-	
2012 ACSSF By State All Tables/	22-Aug-2013 11:50	-	
2012 ACSSF By State By Sequence Table Subset/	09-Sep-2013 15:06	-	
ACS2012 1-Year TableShells.xls	11-Sep-2013 09:49	3.5M	
ACS 2012_SF_Tech_Doc.pdf	09-Sep-2013 13:55	3.4M	
SequenceNumberTableNumberLookup.sas7bdat	11-Jul-2013 15:41	10M	
Sequence Number and Table Number Lookup.txt	11-Jul-2013 15:42	2.0M	
Sequence Number and Table Number Lookup.xls	11-Sep-2013 11:25	5.4M	
UserTools/	09-Sep-2013 10:55	-	

This is the ACS Summary File—it is actually comprised of three folders that are explained the next chapter.

2.2 Summary File Organization

The Summary File is organized in three folders as shown in the above screenshot. These three directories contain the same combination of files; they are simply arranged differently to accommodate various user needs:

- 2010-2012_ACSSF_All_In_1_Giant_File(Experienced-Users Only)

The “All in 1 Giant File” directory contains a zipped file, which includes geography, estimate, and margin of error files. This zipped file is ideal to download if users want estimates and margins of error for all geographies throughout the nation at once. The file is very large and should only be used by those that can easily process a very large file. For a graphical representation of this folder and its contents, see [Appendix B.1](#).

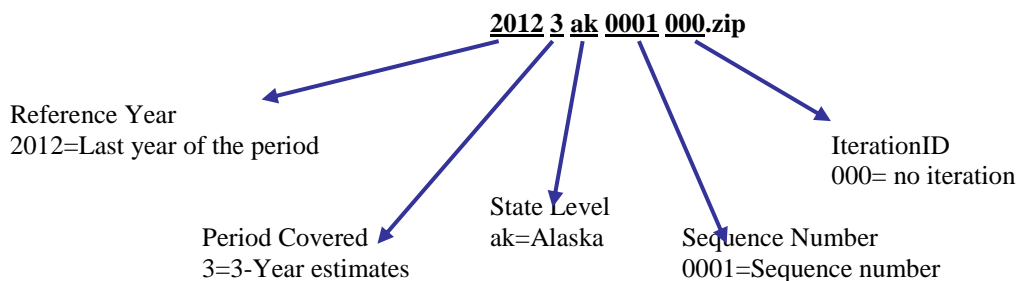
- 2010-2012_ACSSF_By_State_All_Tables

The “By State All Tables” directory contains zipped files for each state or state level equivalent--each of the 50 states, District of Columbia, Puerto Rico, as well as cross-state geographies such as metropolitan areas. Each zipped file contains a geography file and multiple estimate and margin of error files. Downloading from these state level folders is ideal if users want all the tables for a state level geography or cross-state geographies. For a graphical representation of this folder and its contents, see [Appendix B.2](#).

- 2010-2012_ACSSF_By_State_By_Sequence_Table_Subset

The “By State By Sequence Table Subset” directory contains folders for each state or state level equivalent--each of the 50 states, District of Columbia, Puerto Rico, as well as cross-state geographies such as metropolitan areas. Within those folders are a geography file and zipped files containing the estimate and margin of error files, one per “sequence” (sequences are explained in [Chapter 2.3](#)). Downloading from these folders is ideal if users only want a few tables for a state level geography or cross-state geographies. For a graphical representation of this folder and its contents, see [Appendix B.3](#).

The naming convention used for the zipped files in this directory is the following:



File Name: 20123ak0001000.zip

Example	Name	Range or Type
2012	Reference Year	ACS data year (last year of the period for multiyear periods)
3	Period Covered	1=1-year, 3=3-year, 5=5-year
ak	State Level	US or abbreviations for state, District of Columbia, and Puerto Rico
0001	Sequence Number	0001 to 9999
000	Place Holder	Iteration value for future use

Note: Iteration ID is always “000” for the standard 1-Year, 3-Year, and 5-Year products.

As [Appendix B](#) shows, the “All in 1 Giant File” and the “By State All Tables” folders contain the same tables as the “By State By Sequence Table Subset” folder. The difference is in the organization. The “By State All Tables” zipped files contain all of the sequence files for the given state, so each zipped file contains 354 files. The “All in 1 Giant File” zipped file contain all sequence files for all states, which is thousands of files.

As mentioned earlier, the zipped files are divided by state or state-level equivalents. Those state-level equivalents include the District of Columbia and Puerto Rico. There is also a level called “United States,” which is for summary levels that can cross state boundaries, such as the Nation, and all Regions, Divisions, Metropolitan Statistical Areas and Tribal Reservations. The United States level does not contain tables for geographies that are always entirely within a state, such as counties and places; for those tables, go to the folder or files for that state.

The following is a table that gives examples of the types of summary levels are in the state and state-level equivalent folders and files and those that are in the United States folders and files.

Each State, DC, and Puerto Rico	United States
State	United States
County	Region
County subdivision	Division
Place	Metropolitan or urban statistical areas
Congressional districts (113th Congress)	New England City and Town Area (NECTA)
Public Use Microdata Area (PUMA)	American Indian/Alaska Native/Hawaiian Home Land areas
School Districts	Urban areas
Alaska Native Regional Corporation	

2.3 Sequence Numbers

Detailed Tables for similar subject areas are grouped together in “sequences”. A sequence number is an assigned number to a grouping of ACS tables. Table sequencing now follows these new rules:

1) Tables are sorted numerically by the "root" of their Table ID, where the "root" is defined as the numeric section after the first letter and before any additional letters, so for example the root of B06004APR is "06004". For tables with the same root, additionally sort them in the following order:

Non-iterated, non-collapsed, non-PR version (e.g., Table B06003)

Iterated, non-collapsed, non-PR versions (e.g., Tables B06004A, B06004B...B06004I)

Non-iterated, collapsed, non-PR version (e.g., Table C06001)

Iterated, collapsed, non-PR version (e.g., Tables C08505A, C08505B... C08505I)
 Non-iterated, non-collapsed, PR version (e.g., Table B06003PR)
 Iterated, non-collapsed, PR versions (e.g., Tables B06004APR, B06004BPR...B06004IPR)
 Non-iterated, collapsed, PR version (e.g., Table C06001PR)
 Iterated, collapsed, PR version (e.g., Table C06001APR)

2) With tables sorted in this order, start with the first table and assign it to the first sequence. For each subsequent table, if the table has either a new "subject", a new "geography type", or would cause the number of cells in the sequence to exceed 245, then start a new sequence. "Subject" is described using the second and third characters in the Table ID, so for example the subject of B06004APR is "06". "Geography type" can be one of three things: Place of Residence geography type, Place of Work geography type, or Residence 1 Year Ago geography type see [Appendix E](#).

3) If a table does not fit in one sequence, then put the first 245 cells of it in one sequence, and the rest in the next. If a table does not fit in two sequences, then put the first 245 cells of it in one sequence, the next 245 cells of it in the next sequence, and the rest in a third sequence.

The rules governing how many tables can be assigned the same sequence number depend on the following:

- There are no more than 256 columns per sequence, so the data can be read into a spreadsheet.
- There are 177 sequences for the 2010-2012 ACS 3-year Summary File.
- Tables are grouped numerically by the "root" of their Table ID, (i.e., Table B00001 is in sequence file 0001).
- The sequencing algorithm groups' tables sequentially by TBLID, which means that tables with race iterations are often grouped in the same sequence, but this is not always the case.

It is critical to know the sequence number associated with a Detailed Table (Table ID) for two reasons. First, one needs it in order to access the correct estimates and margins of error files for the desired table. Second, the field start position for the estimates or margins of error of a certain Detailed Table depends on its sequence number.

The Sequence Number and Detailed Table Number Lookup file, available as an Excel spreadsheet, text file, and SAS dataset, lists Table IDs associated with each sequence number. This spreadsheet, formerly known as "merge_5_6", is available at www2.census.gov/acs2012_3yr/summaryfile/. The name of the Excel spreadsheet is "Sequence_Number_and_Table_Number_Lookup.xls," the text file is called "Sequence_Number_and_Table_Number_Lookup.txt," and the SAS dataset is called "SequenceNumberTableNumberLookup.sas7bdat."

For example, to find the sequence number associated with the table B08406, a user must open and look for that Table ID in the Sequence Number and Table Number Lookup file. Shown below is a screenshot of this file opened to where the "tblid" is B08406. The next column in the

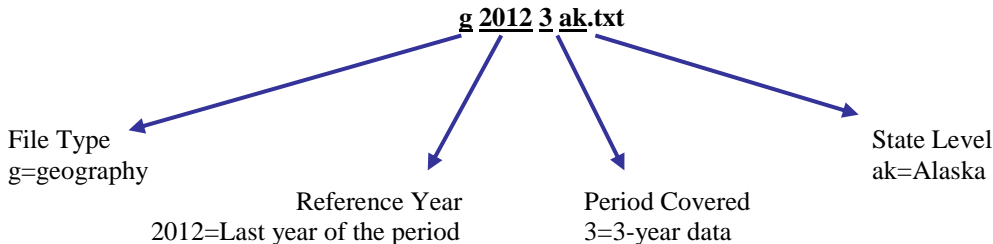
file, “seq”, shows that this Table ID is associated with the sequence number “0043”. In order to access the estimate and margin of error file for Table B08406, a user will need to download the estimate and margin of error files labeled with the sequence number “0043”.

	A	B	C	D	E	F	G	H	I
8515	ACSSF	B08406	0043			7	51 CELLS	SEX OF WORKERS BY MEANS OF TRANSPORTATION TO WORK FOR WORKPLACE GEOGRAPHY	Journey to Work
8516	ACSSF	B08406	0043					Universe: Workers 16 years and over	
8517	ACSSF	B08406	0043	1				Total:	
8518	ACSSF	B08406	0043	2				Car, truck, or van:	
8519	ACSSF	B08406	0043	3				Drove alone	
8520	ACSSF	B08406	0043	4				Carpooled:	
8521	ACSSF	B08406	0043	5				In 2-person carpool	
8522	ACSSF	B08406	0043	6				In 3-person carpool	
8523	ACSSF	B08406	0043	7				In 4-or-more-person carpool	
8524	ACSSF	B08406	0043	8				Public transportation (excluding taxicab):	
8525	ACSSF	B08406	0043	9				Bus or trolley bus	
8526	ACSSF	B08406	0043	10				Streetcar or trolley car (carro publico in Puerto Rico)	
8527	ACSSF	B08406	0043	11				Subway or elevated	
8528	ACSSF	B08406	0043	12				Railroad	
8529	ACSSF	B08406	0043	13				Ferryboat	
8530	ACSSF	B08406	0043	14				Bicycle	
8531	ACSSF	B08406	0043	15				Walked	
8532	ACSSF	B08406	0043	16				Taxicab, motorcycle, or other means	
8533	ACSSF	B08406	0043	17				Worked at home	

2.4 Geography File

There is a geography file that comes with the estimate and margin of error files. This file begins with a “g” and is an ASCII file using either a position based format or comma delimited format. A geography file exists for each state or state level equivalent.

Geography files are named using the following convention:



File Name: g20123ak.txt		
Example	Name	Range or Type
g	File Type	g=geography
2012	Reference Year	ACS data year (last year of the period for multiyear periods)
3	Period Covered	1=1-year, 3=3-year, 5=5-year
ak	State Level	US or abbreviations for state, District of Columbia, and Puerto Rico

The geography files contain geographic information for an ACS tabulated area, including the name of the area. One variable on the file, called LOGRECNO, is the logical record number and is used to link the level of geography to the estimate and margin of error files. An example of how to use LOGRECNO is discussed in [Chapter 2.5](#).

The following table provides the layout of the geography file:

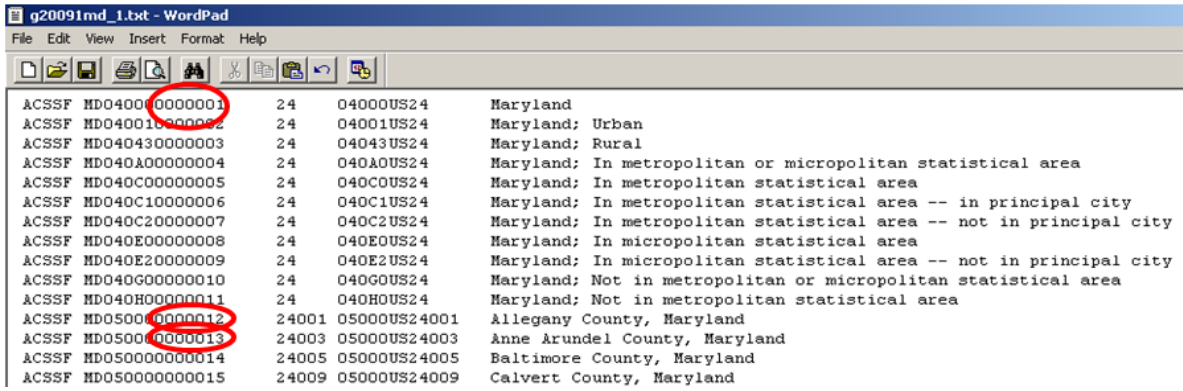
Variable Name	Description	Field Size	Starting Position	Geographic Summary Levels For 1-Year Tables
RECORD CODES				
FILEID	Always equal to ACS Summary File identification	6	1	All Summary Levels
STUSAB	State Postal Abbreviation	2	7	All Summary Levels
SUMLEVEL	Summary Level	3	9	All Summary Levels
COMPONENT	Geographic Component	2	12	All Summary Levels
LOGRECNO	Logical Record Number	7	14	All Summary Levels
GEOGRAPHIC AREA CODES				
US	US	1	21	010
REGION	Census Region	1	22	020
DIVISION	Census Division	1	23	030
STATECE	State (Census Code)	2	24	Blank for all summary levels
STATE	State (FIPS Code)	2	26	040, 050, 060, 160, 230, 312, 352, 500, 795, 950, 960, 970
COUNTY	County of current residence	3	28	050, 060
COUSUB	County Subdivision (FIPS)	5	31	060
PLACE	Place (FIPS Code)	5	36	160, 312, 352
TRACT	Census Tract	6	41	Not applicable for this release
BLKGRP	Block Group	1	47	Not applicable for this release
CONCIT	Consolidated City	5	48	Not applicable for this release
AIANHH	American Indian Area/Alaska Native Area/ Hawaiian Home Land (Census)	4	53	250
AIANHHFP	American Indian Area/Alaska Native Area/ Hawaiian Home Land (FIPS)	5	57	Not applicable for this release
AIHHTLI	American Indian Trust Land/ Hawaiian Home Land Indicator	1	62	Not applicable for this release
AITSCE	American Indian Tribal Subdivision (Census)	3	63	Not applicable for this release
AITS	American Indian Tribal Subdivision (FIPS)	5	66	Not applicable for this release
ANRC	Alaska Native Regional Corporation (FIPS)	5	71	230
CBSA	Metropolitan and Micropolitan Statistical Area	5	76	310, 312, 314
CSA	Combined Statistical Area	3	81	330
METDIV	Metropolitan Statistical Area-Metropolitan Division	5	84	314
MACC	Metropolitan Area Central City	1	89	Blank for all summary levels
MEMI	Metropolitan/Micropolitan Indicator Flag	1	90	010, 020, 030, 040, 314
NECTA	New England City and Town Area	5	91	335, 350, 352
CNECTA	New England City and Town Combined Statistical Area	3	96	335
NECTADIV	New England City and Town Area Division	5	99	355
UA	Urban Area	5	104	400
BLANK		5	109	Reserved for future use

CDCURR	Current Congressional District ***	2	114	500
SLDU	State Legislative District Upper	3	116	Not applicable for the release
SLDL	State Legislative District Lower	3	119	Not applicable for the release
BLANK		6	122	Reserved for future use
BLANK		3	128	Reserved for future use
ZCTA5	5-digit ZIP Code Tabulation Area	5	131	Not applicable for the release
SUBMCD	Subminor Civil Division (FIPS)	5	136	Not applicable for the release
SDELM	State-School District (Elementary)	5	141	950
SDSEC	State-School District (Secondary)	5	146	960
SDUNI	State-School District (Unified)	5	151	970
UR	Urban/Rural	1	156	010, 020, 030, 040
PCI	Principal City Indicator	1	157	010, 020, 030, 040, 312, 352
BLANK		6	158	Reserved for future use
BLANK		5	164	Reserved for future use
PUMA5	Public Use Microdata Area – 5% File	5	169	795
BLANK		5	174	Reserved for future use
GEOID	Geographic Identifier	40	179	All Summary Levels
NAME	Area Name	1000	219	All Summary Levels
BTTR	Tribal Tract	6	1219	Not applicable for the release
BTBG	Tribal Block Group	1	1225	Not applicable for the release
BLANK		43	1226	Reserved for future use

This year, we created an Excel template for the geography file named “2012_SFGeoFileTemplate.xls”. The template provides users with two rows containing the variable names and their descriptions (as displayed in the above table) for each column in the geography file. It is meant to be used with the comma delimited version of the geography file. The template is available at http://www2.census.gov/acs2012_3yr/summaryfile/UserTools/ in the zipped “2012_SummaryFileTemplates” folder. Here is a screenshot of the Excel file:

1	FILEID	STUSAB	SUMLEVEL	COMPONENT	LOGRECNO	US	REGION	DIVISION	STATECE	STATE	COUNTY	COUSUB	PLACE	TR
2	Always equal to ACS Summary File identification	State Postal Abbreviation	Summary Level	Geographic Component	Logical Record Number	US	Census Region	Census Division	State (Census Code)	State (FIPS Code)	County of current residence	County Subdivision (FIPS)	Place (FIPS Code)	Cen Tra
3														
4														
5														
6														
7														

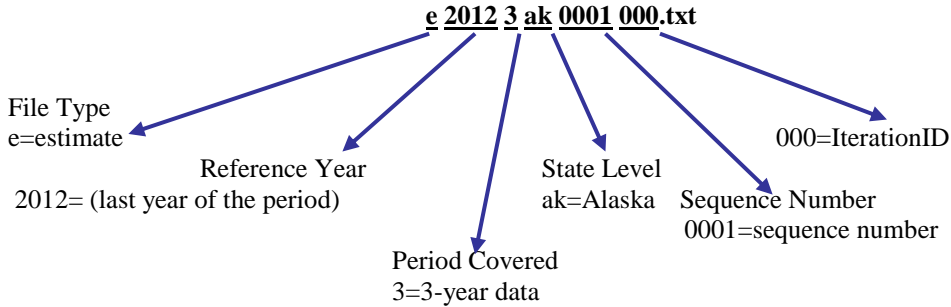
Each state, the District of Columbia, Puerto Rico and the set of cross-state geographies, have one geography file associated with them regardless of how the Summary File is accessed. For example, the following screenshot shows the beginning of the state geography file for Maryland. In the screenshot, the logical record numbers corresponding with the state of Maryland, Allegany County, and Anne Arundel County are circled. The logical record number for the state of Maryland is “0000001”, for Allegany County it is “0000012”, and for Anne Arundel County it is “0000013”.



Excess spaces in the pictured geography file have been removed for illustrative purposes.

2.5 Estimate and Margin of Error Files

Each of the three Summary File directories include zipped files containing estimate files (file names beginning with an “e”) and margins of error files (file names beginning with an “m”). The estimate files contain published ACS estimates and the margin of error files contain published ACS margins of error for their respective estimates. Here is the naming convention used for those files:



File Name: e20123ak0003000.txt		
Example	Name	Range or Type
e	File Type	e=estimate, m=margin of error
2012	Reference Year	ACS data year (last year of the period for multiyear periods)
3	Period Covered	1=1-year, 3=3-year, 5=5-year
ak	State Level	US or abbreviations for state, District of Columbia and Puerto Rico
0003	Sequence Number	0001 to 9999
000	Reserved for future use	Iteration value for future use

The estimates and margins of error for Detailed Tables are grouped together in by sequence numbers, as discussed in [Chapter 2.3](#). There is an estimate and margin of error file for each sequence number.

The format of the estimate and margin of error files are identical; they are strings of comma-delimited ASCII text. Each row represents a different geographic area and the first six fields

contain metadata such as the geographic area and the sequence number. Following those fields are the estimates or margins of error for the Detailed Tables. Starting and ending positions of the fields associated with each Detailed Table can be found using the Sequence Number and Table Number Lookup file, which is discussed in [Chapter 2.3](#). The estimates or margins of error for one Detailed Table span several fields within a row.

Here is the record layout of the estimates and the margin of error files:

Field Name	Description	Field Size
FILEID	File Identification	6 Characters
FILETYPE	File Type	6 Characters
STUSAB	State/U.S.-Abbreviation (USPS)	2 Characters
CHARITER	Character Iteration	3 Characters
SEQUENCE	Sequence Number	4 Characters
LOGRECNO	Logical Record Number	7 Characters
Field # 7 and up	Estimates	Various

Going back to the example from [Chapter 2.3](#), we know that table B08406 corresponds to sequence “0003”. Additionally, the Sequence Number and Table Number Lookup file (as shown earlier) tells us that table B08406 begins at position seven and contains 51 cells.

In order to get estimates for Maryland; Allegany County, MD; and Anne Arundel County, MD one must recall the logical record numbers associated with each geography. In [Chapter 2.4](#), we identified these to be “0000001”, “0000012”, and “0000013”, respectively. The logical record number, LOGRECNO, must be used to merge the geography information to the estimate and margin of error files.

The example below shows the estimate file for sequence “0003” and all geographies except census tracts and block groups for the state of Maryland using the 2009 ACS 1-year Summary File. For the 2010 ACS 1-year Summary File, the dots “.” in the below screenshot will be replaced by empty cells as documented in [Appendix C.3](#). Note that each row has a uniquely assigned logical record number, called LOGRECNO, which links the estimate to a specific geographic area. The pictured example has the logical record numbers corresponding to Maryland, Allegany County, and Anne Arundel County circled. Estimates for table B08406 at these geographic levels can be found within their respective rows at field seven and continuing for 50 additional fields.

```

ACSSF, 2009e1, md, 000, 0003, 0000001, 2587044, 2229066, 1969240, 259826, 200758, 38991, 20077, 137221, 97834, 2
ACSSF, 2009e1, md, 000, 0003, 0000012, .....
ACSSF, 2009e1, md, 000, 0003, 0000013, 248471, 228283, 202783, 25500, 19149, 4306, 2045, 3989, 3430, 127, 329, 103
ACSSF, 2009e1, md, 000, 0003, 0000014, 351666, 308694, 277191, 31503, 26119, 3212, 2172, 15980, 14833, 120, 290, 7
ACSSF, 2009e1, md, 000, 0003, 0000015, .....
ACSSF, 2009e1, md, 000, 0003, 0000016, .....
ACSSF, 2009e1, md, 000, 0003, 0000017, .....
ACSSF, 2009e1, md, 000, 0003, 0000018, .....
ACSSF, 2009e1, md, 000, 0003, 0000019, 107070, 94949, 82030, 12919, 9952, 1627, 1340, 1434, 1434, 0, 0, 0, 245, 32
ACSSF, 2009e1, md, 000, 0003, 0000020, 92049, 84782, 76063, 8719, 6475, 1412, 832, 257, 257, 0, 0, 0, 171, 2169, 57
ACSSF, 2009e1, md, 000, 0003, 0000021, 152409, 139444, 127022, 12422, 9926, 1907, 589, 2085, 1815, 102, 71, 97, 0, 4
ACSSF, 2009e1, md, 000, 0003, 0000022, 482740, 394364, 348813, 45551, 36350, 5524, 3677, 44621, 26897, 459, 15573
ACSSF, 2009e1, md, 000, 0003, 0000023, 323723, 272527, 235560, 36967, 25997, 8228, 2742, 23745, 14835, 115, 7681,
ACSSF, 2009e1, md, 000, 0003, 0000024, .....
ACSSF, 2009e1, md, 000, 0003, 0000025, .....
ACSSF, 2009e1, md, 000, 0003, 0000026, .....
ACSSF, 2009e1, md, 000, 0003, 0000027, 369669, 291632, 252107, 39525, 29933, 6250, 3342, 42228, 31671, 1213, 7998
ACSSF, 2009e1, md, 000, 0003, 0000028, 369669, 291632, 252107, 39525, 29933, 6250, 3342, 42228, 31671, 1213, 7998
ACSSF, 2009e1, md, 000, 0003, 0000029, .....
ACSSF, 2009e1, md, 000, 0003, 0000030, .....
ACSSF, 2009e1, md, 000, 0003, 0000031, 45231, 31739, 27764, 3975, 3138, 278, 559, 8889, 5865, 210, 2161, 653, 0, 634
ACSSF, 2009e1, md, 000, 0003, 0000032, .....
ACSSF, 2009e1, md, 000, 0003, 0000033, 369669, 291632, 252107, 39525, 29933, 6250, 3342, 42228, 31671, 1213, 7998

```

2.6 How to Join the ACS Summary File to the TIGER/Line Shapefiles

TIGER/Line Shapefiles allow data users to directly link geographic areas to data from the American Community Survey and other surveys. The TIGER/Line Shapefiles are designed for use with geographic information system (GIS) software. Learn more about TIGER/Line Shapefiles at <http://www.census.gov/geo/maps-data/data/tiger-line.html>.

The variable GEOID joins the ACS Summary File to the TIGER/Line Shapefiles. For the ACS Summary File, GEOID is located in column AW of the geography file. It is not found in the estimates or margins of error files. (As discussed in previous chapters, the variable LOGRECNO is needed to join together the parts that make up the Summary File: the geography, estimates, and margins of error files). GEOID's corresponding variable in the 2012 TIGER/Line Shapefiles is GEOID10.

We will walk through an example of joining these files using Kent County, Delaware. In the ACS Summary File, the GEOID is 05000US10001. In the TIGER/Line Shapefiles, the GEOID10 is 10001. (GEOID is a concatenation of all the codes associated with a given geographic area, such as the state FIPS code, county FIPS code, etc. The exact concatenation varies by geographic area. In this example, 10=state FIPS code and 001=county FIPS code.)

The ACS Summary File GEOID contains the necessary information to connect to the TIGER/Line Shapefiles, but it needs to be modified in order to exactly match up. Notice that GEOID, **05000US10001**, contains the GEOID10 string, **10001**.

In order to create an exact match of GEOID and GEOID10, it is necessary to remove all of the characters before and including the letter "S" in the ACS Summary File. By removing these

characters, the new GEOID in the ACS Summary File exactly matches the field GEOID10 in the TIGER/Line Shapefiles.

The following is an example of how to modify the ACS Summary File’s GEOID in Excel 2007 so it can be joined with TIGER/Line Shapefiles:

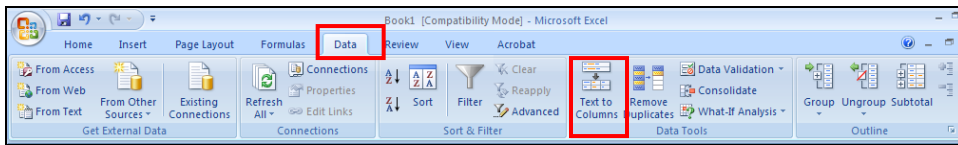
- 1) Open the ACS Summary File comma delimited geography file in Excel. This example uses Delaware’s geography file (g20121de.csv) available at www2.census.gov/acs2012_1yr/summaryfile/ with the column headers from the geography file template copied into Delaware’s geography file. Learn more about the geography file template in [Chapter 2.4](#).
- 2) Insert 2 blank columns to the right of the column “GEOID.” Your modified GEOID will eventually go into the second column. (Note: Columns F through AV in the diagrams following are hidden for illustrative purposes.)

	A	B	C	D	E	AW	AX	AY	AZ
1	FILEID	STUSAB	SUMLEVEL	COMPONENT	LOGRECNO	GEOID			NAME
	equal to ACS Summary File Identification	State Postal Abbreviation	Summary Level	Geographic Component	Logical Record Number	Geographic Identifier			Area Name
3	ACSSF	DE	40	0	1	04000US10			Delaware
4	ACSSF	DE	40	1	2	04001US10			Delaware -- Urban
5	ACSSF	DE	40	43	3	04043US10			Delaware -- Rural
6	ACSSF	DE	40	A0	4	040A0US10			Delaware -- In metropolitan or micropolitan sta
7	ACSSF	DE	40	C0	5	040C0US10			Delaware -- In metropolitan statistical area
8	ACSSF	DE	40	C1	6	040C1US10			Delaware -- In metropolitan statistical area -- In
9	ACSSF	DE	40	C2	7	040C2US10			Delaware -- In metropolitan statistical area -- n
10	ACSSF	DE	40	E0	8	040E0US10			Delaware -- In micropolitan statistical area
11	ACSSF	DE	40	E2	9	040E2US10			Delaware -- In micropolitan statistical area -- nc
12	ACSSF	DE	40	H0	10	040H0US10			Delaware -- Not in metropolitan statistical area
13	ACSSF	DE	50	0	11	05000US10001			Kent County, Delaware
14	ACSSF	DE	50	0	12	05000US10003			New Castle County, Delaware
15	ACSSF	DE	50	0	13	05000US10005			Sussex County, Delaware
16	ACSSF	DE	160	0	14	16000US1077580			Wilmington city, Delaware
17	ACSSF	DE	312	0	15	31200US379801077580			Wilmington city, DE; Philadelphia-Camden-Wilr
18	ACSSF	DE	500	0	16	50000US1000			Congressional District (at Large) (111th Congres
19	ACSSF	DE	795	0	17	79500US1000101			PUMAS 00101, Delaware
20	ACSSF	DE	795	0	18	79500US1000102			PUMAS 00102, Delaware
21	ACSSF	DE	795	0	19	79500US1000103			PUMAS 00103, Delaware
22	ACSSF	DE	795	0	20	79500US1000104			PUMAS 00104, Delaware
23	ACSSF	DE	795	0	21	79500US1000200			PUMAS 00200, Delaware

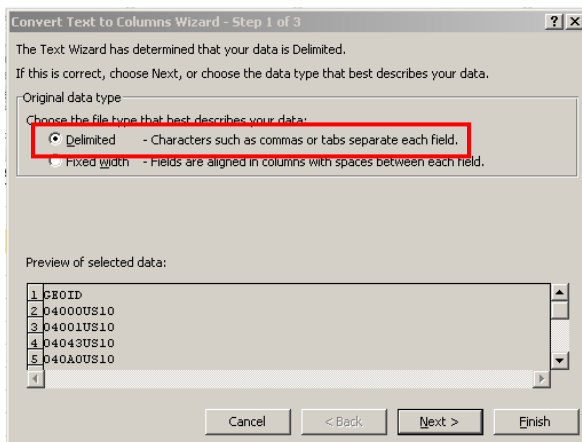
3) Next, select the column “GEOID.”

	A	B	C	D	E	AW	AX	AY	AZ
1	FILEID	STUSAB	SUMLEVEL	COMPONENT	LOGRECNO	GEOID			NAME
2	equal to ACS Summary File identification	State Postal Abbreviation	Summary Level	Geographic Component	Logical Record Number	Geographic Identifier			Area Name
3	ACSSF	DE	40		0	04000US10			Delaware
4	ACSSF	DE	40		1	04001US10			Delaware -- Urban
5	ACSSF	DE	40		43	04043US10			Delaware -- Rural
6	ACSSF	DE	40	A0		040A0US10			Delaware -- In metropolitan or micropolitan sta
7	ACSSF	DE	40	C0		040C0US10			Delaware -- In metropolitan statistical area
8	ACSSF	DE	40	C1		040C1US10			Delaware -- In metropolitan statistical area -- in
9	ACSSF	DE	40	C2		040C2US10			Delaware -- In metropolitan statistical area -- nc
10	ACSSF	DE	40	E0		040E0US10			Delaware -- In micropolitan statistical area
11	ACSSF	DE	40	E2		040E2US10			Delaware -- In micropolitan statistical area -- nc
12	ACSSF	DE	40	H0		040H0US10			Delaware -- Not in metropolitan statistical area
13	ACSSF	DE	50		0	05000US10001			Kent County, Delaware
14	ACSSF	DE	50		0	05000US10003			New Castle County, Delaware
15	ACSSF	DE	50		0	05000US10005			Sussex County, Delaware
16	ACSSF	DE	160		0	16000US1077580			Wilmington city, Delaware
17	ACSSF	DE	312		0	31200US379801077580			Wilmington city, DE; Philadelphia-Camden-Wil
18	ACSSF	DE	500		0	50000US1000			Congressional District (at Large) (111th Congres
19	ACSSF	DE	795		0	79500US1000101			PUMAS 00101, Delaware
20	ACSSF	DE	795		0	79500US1000102			PUMAS 00102, Delaware
21	ACSSF	DE	795		0	79500US1000103			PUMAS 00103, Delaware
22	ACSSF	DE	795		0	79500US1000104			PUMAS 00104, Delaware
23	ACSSF	DE	795		0	79500US1000200			PUMAS 00200, Delaware

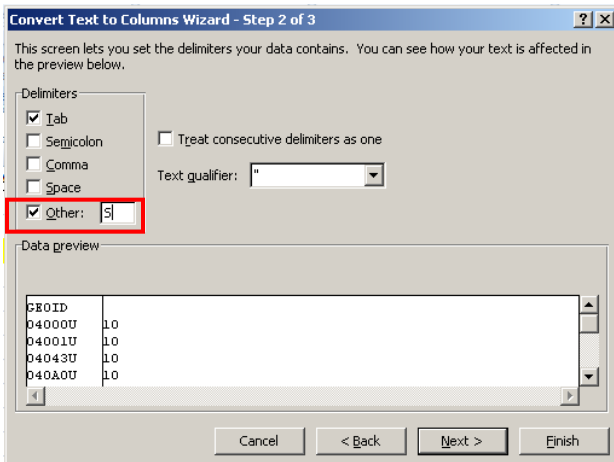
4) Select the “Data” tab from the top menu, then select “Text to Columns.” The “Convert Text to Columns Wizard” box should pop up.



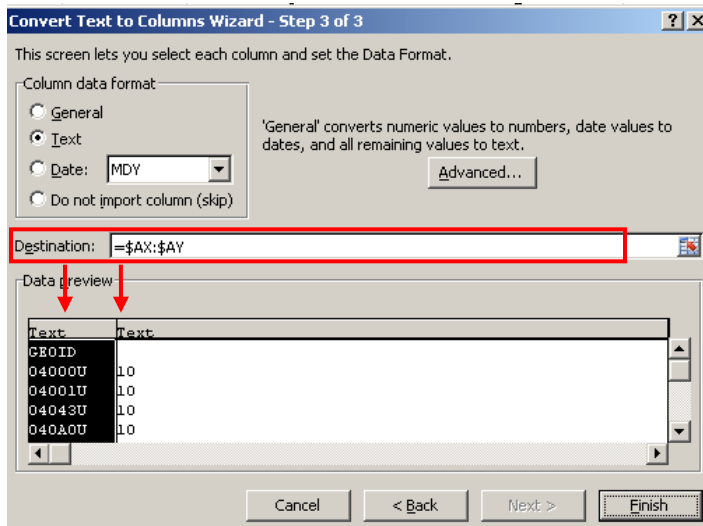
5) In the “Convert Text to Columns Wizard,” select “Delimited” under “Choose the file type that best describes your data:” then click “Next.”



- 6) Check “Other” as the delimiter and type the letter “S” into the box. Click “Next.”



- 7) In the “Data preview” window, click on the top of both columns in “Data preview” and select “Text” under “Column data format.” In “Destination,” select the two blank columns that you created in Step 1. Click “Finish.”



- 8) Column AY should now contain the modified GEOID that corresponds to GEOID10 in the TIGER/Line Shapefiles. The second screenshot shows the TIGER/Line Shapefile for Kent County, Delaware.

	A	B	C	D	E	AW	AX	AY	AZ
1	FILEID	STUSAB	SUMLEVEL	COMPONENT	LOGRECNO	GEOID	GEOID	NAME	
2	equal to ACS Summary File identification	State Postal Abbrevia	Summary Level	Geographic Component	Logical Record Number	Geographic Identifier	Geographic Identifier	Area Name	
3	ACSSF	DE	40		0	1 04000US10	04000U	10 Delaware	
4	ACSSF	DE	40		1	2 04001US10	04001U	10 Delaware -- Urban	
5	ACSSF	DE	40		43	3 04043US10	04043U	10 Delaware -- Rural	
6	ACSSF	DE	40	A0		4 040A0US10	040A0U	10 Delaware -- In metropolitan or micropolitan sta	
7	ACSSF	DE	40	C0		5 040C0US10	040C0U	10 Delaware -- In metropolitan statistical area	
8	ACSSF	DE	40	C1		6 040C1US10	040C1U	10 Delaware -- In metropolitan statistical area -- in	
9	ACSSF	DE	40	C2		7 040C2US10	040C2U	10 Delaware -- In metropolitan statistical area -- ni	
10	ACSSF	DE	40	E0		8 040E0US10	040E0U	10 Delaware -- In micropolitan statistical area	
11	ACSSF	DE	40	E2		9 040E2US10	040E2U	10 Delaware -- In micropolitan statistical area -- nc	
12	ACSSF	DE	40	H0		10 040H0US10	040H0U	10 Delaware -- Not in metropolitan statistical area	
13	ACSSF	DE	50		0	11 05000US10001	05000U	10001 Kent County, Delaware	
14	ACSSF	DE	50		0	12 05000US10003	05000U	10003 New Castle County, Delaware	
15	ACSSF	DE	50		0	13 05000US10005	05000U	10005 Sussex County, Delaware	
16	ACSSF	DE	160		0	14 16000US1077580	16000U	1077580 Wilmington city, Delaware	
17	ACSSF	DE	312		0	15 31200US379801077580	31200U	3.79801E+11 Wilmington city, DE; Philadelphia-Camden-Wil	
18	ACSSF	DE	500		0	16 50000US1000	50000U	1000 Congressional District (at Large) (111th Congres	
19	ACSSF	DE	795		0	17 79500US1000101	79500U	1000101 SUMAS 00101, Delaware	
20	ACSSF	DE	795		0	18 79500US1000102	79500U	1000102 SUMAS 00102, Delaware	
21	ACSSF	DE	795		0	19 79500US1000103	79500U	1000103 SUMAS 00103, Delaware	
22	ACSSF	DE	795		0	20 79500US1000104	79500U	1000104 SUMAS 00104, Delaware	
23	ACSSF	DE	795		0	21 79500US1000200	79500U	1000200 SUMAS 00200, Delaware	

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	STATEFP10	COUNTYFP10	COUNTYNS10	GEOID10	NAME10	NAMESAD10	LSAD10	CLASSFP10	MTFCC10	CSAFP10	CBSAFP10	METDIVFP10	FUNCSTAT10
2	10	001	00217271	10001	Kent	Kent County	06	H1	G4020		20100		A
3	10	005	00217269	10005	Sussex	Sussex County	06	H1	G4020		42580		A
4	10	003	00217270	10003	New Castle	New Castle County	06	H1	G4020	428	37980	48864	A
5													

- 9) The ACS Summary File and the TIGER/Line Shapefile should now be ready to be joined using GIS software. Visit “Working with TIGER/Line Shapefiles” at <https://www.census.gov/geo/education/howtos.html> to learn more about how to access and use the TIGER/Line Shapefiles.

3 User Tools

3.1 Summary File Excel Retrieval Tool

If only a few tables are needed, a useful tool is the Summary File Excel Retrieval Tool. If users have Excel 2007 or later, the tool is able to get tables from an entire sequence and from a summary level and component. Information on how to use Summary File Excel Retrieval Tool is located on the ACS Summary File page, at www.census.gov/acs/www/data_documentation/summary_file.

Hardware and Software requirements for the application include:

- Microsoft Windows XP Professional Service Pack 3 or newer (a Mac version is being developed)
- Winzip version 14.5 or compatible
- 32 bit Office 2007 or newer
- DSL connection at 1.0 Mbps or greater is recommended

3.2 Summary File SAS Tool

For users with SAS software, please visit the User Tools folder, http://www2.census.gov/acs2012_3yr/summaryfile/UserTools/ to download SAS programs. These programs allow users to load the Summary File data into SAS Datasets. The SAS programs serve as a reference for the users, and include variable labels, however modifications may be necessary before users can get the data. After the needed Summary File data have been downloaded, users should specify the locations in the library references and the infile statements.

- 1) SF20123YR_SAS.zip – Contains SAS programs, which can be used to convert each estimate and margin of error into SAS Datasets. The SAS datasets include table stubs. There is one individual SAS program for each sequence per state.
- 2) SF_All_Macro.sas – This is a detailed example SAS program containing SAS macros which access the ACS Summary File geography, estimate and margin of error data. It creates one table for all geographies from the ACS Summary File. Segments of the SAS codes can be used to convert geography files into SAS datasets.

3.3 Summary File Excel Import Tool

This tool is another way data users can read the Summary File into Excel, and it is designed to be compatible with any version of the software. While this example uses the 2007-2009 ACS 3-year Summary File, the file layout is similar for the 2010-2012 ACS 3-year Summary File. To begin using this tool, users must first download the Summary File data, the Excel template file, and the Excel geography file.

The 2009 3-year ACS Summary File is available at http://www2.census.gov/acs2009_3yr/summaryfile/. In this example, we are accessing the data by selecting “2007-2009 ACSSF By State All Tables,” then selecting “California All Geographies.zip.” Once downloaded and unzipped to a local directory, this compressed file contains individual text files and one geography file per Summary File sequence. We are using Sequence file 1, so you need to open and save the corresponding estimate and margin of error text files (e20093ca0001000.txt and m20093ca0001000.txt).

Next, you need to download the Excel template file, SummaryFileXLS.zip, from http://www2.census.gov/acs2009_3yr/summaryfile/UserTools/. (Note: SummaryFileXLS.zip is named SummaryFileTemplates.zip for 2012.) Once unzipped to a local directory, this compressed file contains an Excel file for each Summary File sequence. Again, we are using Sequence File 1, so you need to open Seq1.xls.

Finally, you need to download and save the Excel geography file, mini_geofile.xls, from http://www2.census.gov/acs2009_3yr/summaryfile/UserTools/Geography/ to the same local directory. Each worksheet in the mini_geofile.xls represents geographies that are within a state. Note that the “US” worksheet only contains summary levels that can cross state boundaries. “US” is not the data at the national summary level.

We will walk through an example using sequence 1 for the state of California:

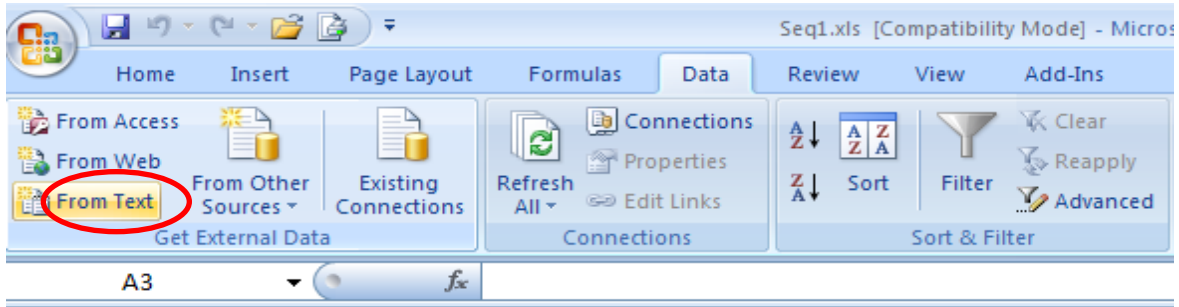
- 1) When the template file is open in Excel it should appear as below:

	A	B	C	D	E	F	G	H
1	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	B07401_001	B07401_002
2	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	Population 1	Population 1
3								
4								

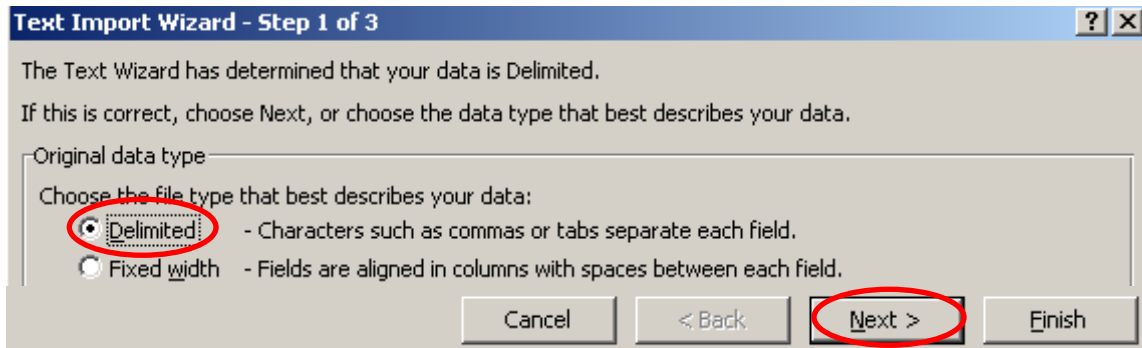
- 2) Place your cursor in cell **A3** and click on the **Data** tab in the Excel tool bar. See below:

	A	B	C	D	E	F	G
1	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	B07401_001
2	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	Population 1
3							

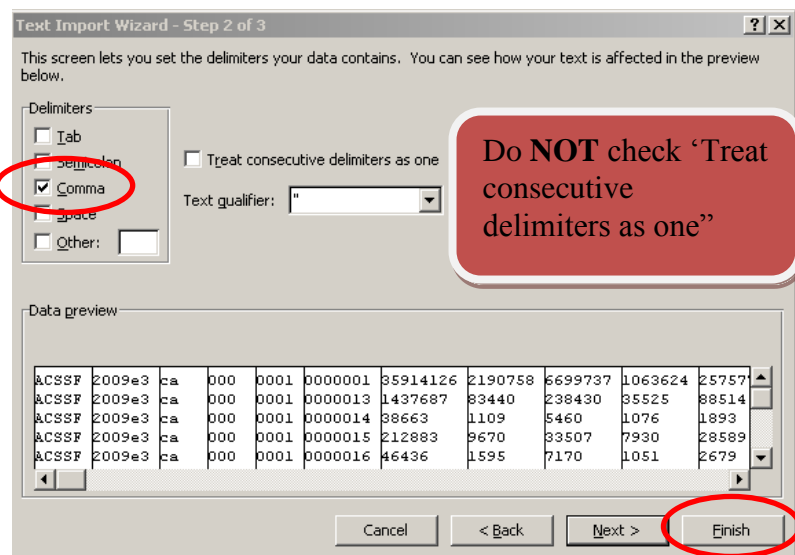
3) To import the Summary File text file into Excel click on **From Text** in the **Get External Data** section of the tool bar. In this example, we are opening the estimate file for California (e20093ca0001000.txt).



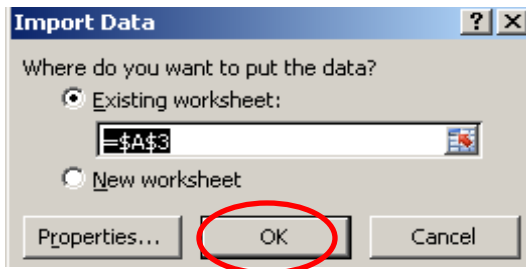
4) Step 1 of the Text Import Wizard will appear. Under **Original data type** choose **Delimited**, and then click **Next**.



5) Step 2 of the Excel Text Import Wizard will appear. Under **Delimiters** choose **Comma**. Users may click **Finish** to import the file or choose **Next** to format the Excel columns.



6) A Pop up window will appear to confirm cell **A3** as the correct cell. Click **OK**.



7) The summary file will be imported in Excel as below:

	G	H	I	J	K	L
1	B07401_001	B07401_002	B07401_003	B07401_004	B07401_005	B07401_006
2	Population 1 year and over in the United States	Population 1 year and over in the United States% 1 to 4 years	Population 1 year and over in the United States% 5 to 17 years	Population 1 year and over in the United States% 18 and 19 years	Population 1 year and over in the United States% 20 to 24 years	Population 1 year and over in the United States% 25 to 29 years
3	35914126	2190758	6699737	1063624	2575775	2730510

Row 1 – Contains a unique identifier of Table ID and Line Number with a “_” between them

Row 2 – Contains the associated metadata for each unique Identifier

Row 3 – Is the first Row of the imported data

	A	B	C	D	E	F
1	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO
2	FILEID	FILETYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO
3	ACSSF	20093	ca	0	1	1

Column A – Is a constant value of “ACSSF” (stands for ACS Summary File)

Column B – Contains the associated metadata for each unique Identifier

Column C – Is the first Row of the imported data

8) Read in the estimates and margins of error for each sequence needed. For example, here is the screenshot of the estimates for sequence 1 (the screenshots are for illustration purposes only and may not reflect the current data):

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	FILEID	FILETYPE	ST	C	S	LO	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	
2	FILEID	FILETYPE	ST	C	S	LO	Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	
3	ACSSF	2.01E+06	ca	0	1	1	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2635271	2684406	2447440	2050939	1636145	1177277	
4	ACSSF	2.01E+06	ca	0	1	13	1437687	83440	238430	35525	88514	114696	114071	113925	115002	114248	103815	90481	67487	45486	
5	ACSSF	2.01E+06	ca	0	1	14	38663	1109	5460	1076	1893	1644	1723	2451	2539	3152	3635	3432	3088	2451	
6	ACSSF	2.01E+06	ca	0	1	15	212883	9670	33507	7930	28589	12007	8875	11306	12181	14232	15322	14571	12078	9125	
7	ACSSF	2.01E+06	ca	0	1	16	46436	1595	7170	1051	2679	1979	1499	1785	3237	3603	4565	4086	4101	2706	
8	ACSSF	2.01E+06	ca	0	1	17
9	ACSSF	2.01E+06	ca	0	1	18	1011548	55839	190330	29783	61276	60744	59006	71006	80147	84549	77634	66043	53039	35733	
10	ACSSF	2.01E+06	ca	0	1	19	28492	1431	4944	959	1850	1873	1901	1934	1762	2145	2407	1980	1486	966	
11	ACSSF	2.01E+06	ca	0	1	20	175652	8684	30988	5148	8868	8208	8157	9957	14333	16915	16712	13741	12824	7642	
12	ACSSF	2.01E+06	ca	0	1	21	884573	65634	192065	28611	70870	74046	60914	58142	57316	57437	52809	44536	35251	25812	
13	ACSSF	2.01E+06	ca	0	1	22
14	ACSSF	2.01E+06	ca	0	1	23	125157	6007	17968	3491	14696	9189	7055	7189	7275	8789	9676	9507	7418	4987	
15	ACSSF	2.01E+06	ca	0	1	24	159688	12281	34350	6251	12608	11354	10131	10074	10995	11135	9722	7883	5486	4648	
16	ACSSF	2.01E+06	ca	0	1	25	765026	57687	174744	25895	56760	57171	51525	49650	52808	53681	46937	38067	29453	23226	
17	ACSSF	2.01E+06	ca	0	1	26	140796	10575	27618	4456	13115	12398	11516	12333	9839	9352	7763	6107	4828	3321	
18	ACSSF	2.01E+06	ca	0	1	27	63904	3218	10637	1558	3164	3705	2997	4406	3366	4756	5485	4700	4916	3480	
19	ACSSF	2.01E+06	ca	0	1	28	34510	1639	5057	825	2525	3032	2658	3308	3128	3086	2332	2331	1640	1013	
20	ACSSF	2.01E+06	ca	0	1	29	9706124	590555	1807440	286895	685733	801602	753973	752670	726008	708369	635244	525215	406505	293823	
21	ACSSF	2.01E+06	ca	0	1	30	143605	10279	30957	4456	9379	10532	9022	9652	9657	9797	9294	8226	7188	5174	
22	ACSSF	2.01E+06	ca	0	1	31	240037	10968	35681	6247	10908	9151	11722	16173	18895	21345	21635	21172	17027	12591	
23	ACSSF	2.01E+06	ca	0	1	32	87010	5024	14523	2593	5272	5109	4698	5078	5270	6098	6850	6678	6632	4023	
24	ACSSF	2.01E+06	ca	0	1	33	239456	17414	55847	9187	19052	16885	15497	15904	15956	15807	13963	11461	9225	7494	
25	ACSSF	2.01E+06	ca	0	1	34	397355	28923	74028	12228	33709	31691	27992	26772	27612	27378	25583	21972	17830	11563	
26	ACSSF	2.01E+06	ca	0	1	35	130845	6751	22410	3891	8396	7659	7209	9471	8454	10436	9618	8571	8214	5529	
27	ACSSF	2.01E+06	ca	0	1	36	95596	3388	14361	2385	4479	4372	3693	5317	6081	7938	9023	9384	7438	5744	

9) Next, you need to pad zeroes for the logical record number LOGRECNO. Add a column next to LOGRECNO. To do this, **Highlight** column G, then **Right Click** and click **Insert**.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	FILEID	FILETYPE	ST	C	S	LO	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	
2	FILEID	FILETYPE	ST	C	S	LO	Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	
3	ACSSF	2.01E+06	ca	0	1	1	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2635271	2684406	2447440	2050939	1636145	1177277	
4	ACSSF	2.01E+06	ca	0	1	13	1437687	83440	238430	35525	88514	114696	114071	113925	115002	114248	103815	90481	67487	45486	
5	ACSSF	2.01E+06	ca	0	1	14	38663	1109	5460	1076	1893	1644	1723	2451	2539	3152	3635	3432	3088	2451	
6	ACSSF	2.01E+06	ca	0	1	15	212883	9670	33507	7930	28589	12007	8875	11306	12181	14232	15322	14571	12078	9125	
7	ACSSF	2.01E+06	ca	0	1	16	46436	1595	7170	1051	2679	1979	1499	1785	3237	3603	4565	4086	4101	2706	
8	ACSSF	2.01E+06	ca	0	1	17
9	ACSSF	2.01E+06	ca	0	1	18	1011548	55839	190330	29783	61276	60744	59006	71006	80147	84549	77634	66043	53039	35733	
10	ACSSF	2.01E+06	ca	0	1	19	28492	1431	4944	959	1850	1873	1901	1934	1762	2145	2407	1980	1486	966	
11	ACSSF	2.01E+06	ca	0	1	20	175652	8684	30988	5148	8868	8208	8157	9957	14333	16915	16712	13741	12824	7642	
12	ACSSF	2.01E+06	ca	0	1	21	884573	65634	192065	28611	70870	74046	60914	58142	57316	57437	52809	44536	35251	25812	
13	ACSSF	2.01E+06	ca	0	1	22
14	ACSSF	2.01E+06	ca	0	1	23	125157	6007	17968	3491	14696	9189	7055	7189	7275	8789	9676	9507	7418	4987	
15	ACSSF	2.01E+06	ca	0	1	24	159688	12281	34350	6251	12608	11354	10131	10074	10995	11135	9722	7883	5486	4648	
16	ACSSF	2.01E+06	ca	0	1	25	765026	57687	174744	25895	56760	57171	51525	49650	52808	53681	46937	38067	29453	23226	
17	ACSSF	2.01E+06	ca	0	1	26	140796	10575	27618	4456	13115	12398	11516	12333	9839	9352	7763	6107	4828	3321	
18	ACSSF	2.01E+06	ca	0	1	27	63904	3218	10637	1558	3164	3705	2997	4406	3366	4756	5485	4700	4916	3480	
19	ACSSF	2.01E+06	ca	0	1	28	34510	1639	5057	825	2525	3032	2658	3308	3128	3086	2332	2331	1640	1013	
20	ACSSF	2.01E+06	ca	0	1	29	9706124	590555	1807440	286895	685733	801602	753973	752670	726008	708369	635244	525215	406505	293823	
21	ACSSF	2.01E+06	ca	0	1	30	143605	10279	30957	4456	9379	10532	9022	9652	9657	9797	9294	8226	7188	5174	
22	ACSSF	2.01E+06	ca	0	1	31	240037	10968	35681	6247	10908	9151	11722	16173	18895	21345	21635	21172	17027	12591	
23	ACSSF	2.01E+06	ca	0	1	32	87010	5024	14523	2593	5272	5109	4698	5078	5270	6098	6850	6678	6632	4023	
24	ACSSF	2.01E+06	ca	0	1	33	239456	17414	55847	9187	19052	16885	15497	15904	15956	15807	13963	11461	9225	7494	
25	ACSSF	2.01E+06	ca	0	1	34	397355	28923	74028	12228	33709	31691	27992	26772	27612	27378	25583	21972	17830	11563	
26	ACSSF	2.01E+06	ca	0	1	35	130845	6751	22410	3891	8396	7659	7209	9471	8454	10436	9618	8571	8214	5529	
27	ACSSF	2.01E+06	ca	0	1	36	95596	3388	14361	2385	4479	4372	3693	5317	6081	7938	9023	9384	7438	5744	

a. For cells G1 and G2, put in **LOGRECNO** as the label.

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	FILEID	FILETYPE	ST	CS	LOGRECNO	LOGRECNO		B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0
				CS															
				HE															
				AQ															
				STR															
				UIE															
				STN															
				AE															
				EC															
				RE															
2	FILEID	FILETYPE	B	R	LOGRECNO	LOGRECNO		Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Popula
3	ACSSF	2.01E+06	ca	0	1	1		35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2635271	2684406	2447440	205093
4	ACSSF	2.01E+06	ca	0	1	13		1437687	83440	238430	35525	88514	114696	114071	113925	115002	114248	103815	9048
5	ACSSF	2.01E+06	ca	0	1	14		38663	1109	5460	1076	1893	1644	1723	2451	2539	3152	3635	343
6	ACSSF	2.01E+06	ca	0	1	15		212883	9670	33507	7930	28589	12007	8875	11306	12181	14232	15322	1457
7	ACSSF	2.01E+06	ca	0	1	16		46436	1595	7170	1051	2679	1979	1499	1785	3237	3603	4565	408
8	ACSSF	2.01E+06	ca	0	1	17													
9	ACSSF	2.01E+06	ca	0	1	18		1011548	55839	190330	29783	61276	60744	59006	71006	80147	84549	77634	6604
10	ACSSF	2.01E+06	ca	0	1	19		28492	1431	4944	959	1850	1873	1901	1934	1762	2145	2407	198
11	ACSSF	2.01E+06	ca	0	1	20		175652	8684	30988	5148	8868	8208	8157	9957	14333	16915	16712	1374
12	ACSSF	2.01E+06	ca	0	1	21		884573	65634	192065	28611	70870	74046	60914	58142	57316	57437	52809	4453
13	ACSSF	2.01E+06	ca	0	1	22													
14	ACSSF	2.01E+06	ca	0	1	23		125157	6007	17968	3491	14696	9189	7055	7189	7275	8789	9676	950
15	ACSSF	2.01E+06	ca	0	1	24		159688	12281	34350	6251	12608	11354	10131	10074	10995	11135	9722	788
16	ACSSF	2.01E+06	ca	0	1	25		765026	57687	174744	25895	56760	57171	51525	49650	52808	53681	46937	3806
17	ACSSF	2.01E+06	ca	0	1	26		140796	10575	27618	4456	13115	12398	11516	12333	9839	9352	7763	610
18	ACSSF	2.01E+06	ca	0	1	27		63904	3218	10637	1558	3164	3705	2997	4406	3366	4756	5485	470
19	ACSSF	2.01E+06	ca	0	1	28		34510	1639	5057	825	2525	3032	2658	3308	3128	3086	2332	233
20	ACSSF	2.01E+06	ca	0	1	29		9706124	590555	1807440	286895	685733	801602	753973	752670	726008	708369	635244	52521

b. **Highlight** cell G3 and enter the formula **=REPT("0",7-LEN(F3))&F3**, then hit **Enter**.

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
	FILEID	FILETYPE	ST	CS	LOGRECNO	LOGRECNO		B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	B07401_0	
				CS																
				HE																
				AQ																
				STR																
				UIE																
				STN																
				AE																
				EC																
				RE																
2	FILEID	FILETYPE	B	R	LOGRECNO	LOGRECNO		Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Popula	
3	ACSSF	2.01E+06	ca	0	1	1		0000001	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2635271	2684406	2447440	205093
4	ACSSF	2.01E+06	ca	0	1	13		1437687	83440	238430	35525	88514	114696	114071	113925	115002	114248	103815	9048	
5	ACSSF	2.01E+06	ca	0	1	14		38663	1109	5460	1076	1893	1644	1723	2451	2539	3152	3635	343	
6	ACSSF	2.01E+06	ca	0	1	15		212883	9670	33507	7930	28589	12007	8875	11306	12181	14232	15322	1457	
7	ACSSF	2.01E+06	ca	0	1	16		46436	1595	7170	1051	2679	1979	1499	1785	3237	3603	4565	408	
8	ACSSF	2.01E+06	ca	0	1	17														
9	ACSSF	2.01E+06	ca	0	1	18		1011548	55839	190330	29783	61276	60744	59006	71006	80147	84549	77634	6604	
10	ACSSF	2.01E+06	ca	0	1	19		28492	1431	4944	959	1850	1873	1901	1934	1762	2145	2407	198	
11	ACSSF	2.01E+06	ca	0	1	20		175652	8684	30988	5148	8868	8208	8157	9957	14333	16915	16712	1374	
12	ACSSF	2.01E+06	ca	0	1	21		884573	65634	192065	28611	70870	74046	60914	58142	57316	57437	52809	4453	
13	ACSSF	2.01E+06	ca	0	1	22														
14	ACSSF	2.01E+06	ca	0	1	23		125157	6007	17968	3491	14696	9189	7055	7189	7275	8789	9676	950	
15	ACSSF	2.01E+06	ca	0	1	24		159688	12281	34350	6251	12608	11354	10131	10074	10995	11135	9722	788	
16	ACSSF	2.01E+06	ca	0	1	25		765026	57687	174744	25895	56760	57171	51525	49650	52808	53681	46937	3806	
17	ACSSF	2.01E+06	ca	0	1	26		140796	10575	27618	4456	13115	12398	11516	12333	9839	9352	7763	610	
18	ACSSF	2.01E+06	ca	0	1	27		63904	3218	10637	1558	3164	3705	2997	4406	3366	4756	5485	470	
19	ACSSF	2.01E+06	ca	0	1	28		34510	1639	5057	825	2525	3032	2658	3308	3128	3086	2332	233	
20	ACSSF	2.01E+06	ca	0	1	29		9706124	590555	1807440	286895	685733	801602	753973	752670	726008	708369	635244	52521	

c. Copy and paste the formula in cell G3 down column G to the last row of the data.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
FILEID	FILETYPE	STRUCS	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO
1							807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401
2	FILEID	FILETYPE	STRUCS	LOGRECNO	LOGRECNO	LOGRECNO	Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca	0	1	1	0000001	2575775	2730510	2535820	2629451	2635271	2684406	2447440	205093				
4	ACSSF	2.01E+06	ca	0	1	13	0000013	88514	114696	114071	113925	115002	114248	103815	9048				
5	ACSSF	2.01E+06	ca	0	1	14	0000014	1893	1644	1723	2451	2539	3152	3635	343				
6	ACSSF	2.01E+06	ca	0	1	15	0000015	28589	12007	8875	11306	12181	14232	15322	1457				
7	ACSSF	2.01E+06	ca	0	1	16	0000016	2679	1979	1499	1785	3237	3603	4565	408				
8	ACSSF	2.01E+06	ca	0	1	17	0000017												
9	ACSSF	2.01E+06	ca	0	1	18	0000018	61276	60744	59006	71006	80147	84549	77634	6604				
10	ACSSF	2.01E+06	ca	0	1	19	0000019	1850	1873	1901	1934	1762	2145	2407	198				
11	ACSSF	2.01E+06	ca	0	1	20	0000020	8868	8208	8157	9957	14333	16915	16712	1374				
12	ACSSF	2.01E+06	ca	0	1	21	0000021	70870	74046	60914	58142	57316	57437	52809	4453				
13	ACSSF	2.01E+06	ca	0	1	22	0000022												
14	ACSSF	2.01E+06	ca	0	1	23	0000023	14696	9189	7055	7189	7275	8789	9676	950				
15	ACSSF	2.01E+06	ca	0	1	24	0000024	12608	11354	10131	10074	10995	11135	9722	788				
16	ACSSF	2.01E+06	ca	0	1	25	0000025	56760	57171	51525	49650	52808	53681	46937	3806				
17	ACSSF	2.01E+06	ca	0	1	26	0000026	13115	12398	11516	12333	9839	9352	7763	610				
18	ACSSF	2.01E+06	ca	0	1	27	0000027	3164	3705	2997	4406	3366	4756	5485	470				
19	ACSSF	2.01E+06	ca	0	1	28	0000028	2525	3032	2658	3308	3128	3086	2332	233				
20	ACSSF	2.01E+06	ca	0	1	29	0000029	685733	801602	753973	752670	726008	708369	635244	52521				

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
FILEID	FILETYPE	STRUCS	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO	LOGRECNO
1							807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401	807401
2	FILEID	FILETYPE	STRUCS	LOGRECNO	LOGRECNO	LOGRECNO	Populatio	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca	0	1	1	0000001	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2635271	2684406	2447440	205093
4	ACSSF	2.01E+06	ca	0	1	13	0000013	1437687	83440	238430	35525	88514	114696	114071	113925	115002	114248	103815	9048
5	ACSSF	2.01E+06	ca	0	1	14	0000014	38663	1109	5460	1076	1893	1644	1723	2451	2539	3152	3635	343
6	ACSSF	2.01E+06	ca	0	1	15	0000015	212883	9670	33507	7930	28589	12007	8875	11306	12181	14232	15322	1457
7	ACSSF	2.01E+06	ca	0	1	16	0000016	46436	1595	7170	1051	2679	1979	1499	1785	3237	3603	4565	408
8	ACSSF	2.01E+06	ca	0	1	17	0000017												
9	ACSSF	2.01E+06	ca	0	1	18	0000018	1011548	55839	190330	29783	61276	60744	59006	71006	80147	84549	77634	6604
10	ACSSF	2.01E+06	ca	0	1	19	0000019	28492	1431	4944	959	1850	1873	1901	1934	1762	2145	2407	198
11	ACSSF	2.01E+06	ca	0	1	20	0000020	175652	8684	30988	5148	8868	8208	8157	9957	14333	16915	16712	1374
12	ACSSF	2.01E+06	ca	0	1	21	0000021	884573	65634	192065	28611	70870	74046	60914	58142	57316	57437	52809	4453
13	ACSSF	2.01E+06	ca	0	1	22	0000022												
14	ACSSF	2.01E+06	ca	0	1	23	0000023	125157	6007	17968	3491	14696	9189	7055	7189	7275	8789	9676	950
15	ACSSF	2.01E+06	ca	0	1	24	0000024	159688	12281	34350	6251	12608	11354	10131	10074	10995	11135	9722	788
16	ACSSF	2.01E+06	ca	0	1	25	0000025	765026	57687	174744	25895	56760	57171	51525	49650	52808	53681	46937	3806
17	ACSSF	2.01E+06	ca	0	1	26	0000026	140796	10575	27618	4456	13115	12398	11516	12333	9839	9352	7763	610
18	ACSSF	2.01E+06	ca	0	1	27	0000027	63904	3218	10637	1558	3164	3705	2997	4406	3366	4756	5485	470
19	ACSSF	2.01E+06	ca	0	1	28	0000028	34510	1639	5057	825	2525	3032	2658	3308	3128	3086	2332	233
20	ACSSF	2.01E+06	ca	0	1	29	0000029	9706124	590555	1807440	286895	685733	801602	753973	752670	726008	708369	635244	52521

10) Add geographies by using common merged keys.

- a. To add geographies, insert two extra columns next to the padded LOGRECNO column G, and label them GEOID and Geography Name. Open the **Excel geography file** mini_geofile.xls and keep both Seq1.xls and mini_geofile.xls files open.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	FILEID	FILETYPE	ST	CS	LOGRECNO	LOGRECNO	GEOID	Geography Name	B07401_0	B07401_1	B07401_2	B07401_3	B07401_4	B07401_5	B07401_6	B07401_7	B07401_8
				C													
				H													
				A													
				Q													
				S													
				T													
				R													
				U													
				I													
				E													
				S													
				A													
				E													
				C													
2	FILEID	FILETYPE	B	R	LOGRECNO	LOGRECNO	GEOID	Geography Name	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca	0	1	1	0000001		35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2
4	ACSSF	2.01E+06	ca	0	1	13	0000013		1437687	83440	238430	35525	88514	114696	114071	113925	
5	ACSSF	2.01E+06	ca	0	1	14	0000014		38663	1109	5460	1076	1893	1644	1723	2451	
6	ACSSF	2.01E+06	ca	0	1	15	0000015		212883	9670	33507	7930	28589	12007	8875	11306	
7	ACSSF	2.01E+06	ca	0	1	16	0000016		46436	1595	7170	1051	2679	1979	1499	1785	
8	ACSSF	2.01E+06	ca	0	1	17	0000017		.	.	.	.	.	.	.	.	.
9	ACSSF	2.01E+06	ca	0	1	18	0000018		1011548	55839	190330	29783	61276	60744	59006	71006	
10	ACSSF	2.01E+06	ca	0	1	19	0000019		28492	1431	4944	959	1850	1873	1901	1934	
11	ACSSF	2.01E+06	ca	0	1	20	0000020		175652	8684	30988	5148	8868	8208	8157	9957	
12	ACSSF	2.01E+06	ca	0	1	21	0000021		884573	65634	192065	28611	70870	74046	60914	58142	
13	ACSSF	2.01E+06	ca	0	1	22	0000022		.	.	.	.	.	.	.	.	.
14	ACSSF	2.01E+06	ca	0	1	23	0000023		125157	6007	17968	3491	14696	9189	7055	7189	
15	ACSSF	2.01E+06	ca	0	1	24	0000024		159688	12281	34350	6251	12608	11354	10131	10074	
16	ACSSF	2.01E+06	ca	0	1	25	0000025		765026	57687	174744	25895	56760	57171	51525	49650	
17	ACSSF	2.01E+06	ca	0	1	26	0000026		140796	10575	27618	4456	13115	12398	11516	12333	
18	ACSSF	2.01E+06	ca	0	1	27	0000027		63904	3218	10637	1558	3164	3705	2997	4406	
19	ACSSF	2.01E+06	ca	0	1	28	0000028		34510	1639	5057	825	2525	3032	2658	3308	
20	ACSSF	2.01E+06	ca	0	1	29	0000029		9706124	590555	1807440	286895	685733	801602	753973	752670	

- b. Add GEOID by using LOGRECNO as the common merged key from both Seq1.xls and ca.xls. **Highlight** cell H3 and enter the formula: **=VLOOKUP(G3,[mini_geofile.xls]ca!B:C,2,0)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	FILEID	FILETYPE	ST	CS	LOGRECNO	LOGRECNO	GEOID	Geography Name	B07401_0	B07401_1	B07401_2	B07401_3	B07401_4	B07401_5	B07401_6	B07401_7	B07401_8
				C													
				H													
				A													
				Q													
				S													
				T													
				R													
				U													
				I													
				E													
				S													
				A													
				E													
				C													
2	FILEID	FILETYPE	B	R	LOGRECNO	LOGRECNO	GEOID	Geography Name	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca	0	1	1	0000001	04000US06	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	
4	ACSSF	2.01E+06	ca	0	1	13	0000013		1437687	83440	238430	35525	88514	114696	114071	113925	
5	ACSSF	2.01E+06	ca	0	1	14	0000014		38663	1109	5460	1076	1893	1644	1723	2451	
6	ACSSF	2.01E+06	ca	0	1	15	0000015		212883	9670	33507	7930	28589	12007	8875	11306	
7	ACSSF	2.01E+06	ca	0	1	16	0000016		46436	1595	7170	1051	2679	1979	1499	1785	
8	ACSSF	2.01E+06	ca	0	1	17	0000017		.	.	.	.	.	.	.	.	.
9	ACSSF	2.01E+06	ca	0	1	18	0000018		1011548	55839	190330	29783	61276	60744	59006	71006	
10	ACSSF	2.01E+06	ca	0	1	19	0000019		28492	1431	4944	959	1850	1873	1901	1934	
11	ACSSF	2.01E+06	ca	0	1	20	0000020		175652	8684	30988	5148	8868	8208	8157	9957	
12	ACSSF	2.01E+06	ca	0	1	21	0000021		884573	65634	192065	28611	70870	74046	60914	58142	
13	ACSSF	2.01E+06	ca	0	1	22	0000022		.	.	.	.	.	.	.	.	.
14	ACSSF	2.01E+06	ca	0	1	23	0000023		125157	6007	17968	3491	14696	9189	7055	7189	
15	ACSSF	2.01E+06	ca	0	1	24	0000024		159688	12281	34350	6251	12608	11354	10131	10074	
16	ACSSF	2.01E+06	ca	0	1	25	0000025		765026	57687	174744	25895	56760	57171	51525	49650	
17	ACSSF	2.01E+06	ca	0	1	26	0000026		140796	10575	27618	4456	13115	12398	11516	12333	
18	ACSSF	2.01E+06	ca	0	1	27	0000027		63904	3218	10637	1558	3164	3705	2997	4406	
19	ACSSF	2.01E+06	ca	0	1	28	0000028		34510	1639	5057	825	2525	3032	2658	3308	
20	ACSSF	2.01E+06	ca	0	1	29	0000029		9706124	590555	1807440	286895	685733	801602	753973	752670	

- c. Add geography names by using GEOID as the common merged key from both Seq1.xls and ca.xls. **Highlight** cell I3 and enter the formula: **=VLOOKUP(H3,[mini_geofile.xls]ca!C:D,2,0)**

1	FILEID	FILETYPE	STRUCTURE	LOGRECNO	LOGRECNO	GEOID	Geography Name	B07401_0	B07401_1	B07401_2	B07401_3	B07401_4	B07401_5	B07401_6	B07401_7	B07401_8	B07401_9
2	FILEID	FILETYPE	STRUCTURE	LOGRECNO	LOGRECNO	GEOID	Geography Name	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca 0 1	1	0000001	04000US06	California	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2629451	2629451
4	ACSSF	2.01E+06	ca 0 1	13	0000013			1437687	83440	238430	35525	88514	114696	114071	113925		
5	ACSSF	2.01E+06	ca 0 1	14	0000014			38663	1109	5460	1076	1893	1644	1723	2451		
6	ACSSF	2.01E+06	ca 0 1	15	0000015			212883	9670	33507	7930	28589	12007	8875	11306		
7	ACSSF	2.01E+06	ca 0 1	16	0000016			46436	1595	7170	1051	2679	1979	1499	1785		
8	ACSSF	2.01E+06	ca 0 1	17	0000017												
9	ACSSF	2.01E+06	ca 0 1	18	0000018			1011548	55839	190330	29783	61276	60744	59006	71006		
10	ACSSF	2.01E+06	ca 0 1	19	0000019			28492	1431	4944	959	1850	1873	1901	1934		
11	ACSSF	2.01E+06	ca 0 1	20	0000020			175652	8684	30988	5148	8868	8208	8157	9957		
12	ACSSF	2.01E+06	ca 0 1	21	0000021			884573	65634	192065	28611	70870	74046	60914	58142		
13	ACSSF	2.01E+06	ca 0 1	22	0000022												
14	ACSSF	2.01E+06	ca 0 1	23	0000023			125157	6007	17968	3491	14696	9189	7055	7189		
15	ACSSF	2.01E+06	ca 0 1	24	0000024			159688	12281	34350	6251	12608	11354	10131	10074		
16	ACSSF	2.01E+06	ca 0 1	25	0000025			765026	57687	174744	25895	56760	57171	51525	49650		
17	ACSSF	2.01E+06	ca 0 1	26	0000026			140796	10575	27618	4456	13115	12398	11516	12333		
18	ACSSF	2.01E+06	ca 0 1	27	0000027			63904	3218	10637	1558	3164	3705	2997	4406		
19	ACSSF	2.01E+06	ca 0 1	28	0000028			34510	1639	5057	825	2525	3032	2658	3308		
20	ACSSF	2.01E+06	ca 0 1	29	0000029			9706124	590555	1807440	286895	685733	801602	753973	752670		

- d. **Highlight** both cells H3 and I3 and **right click** to copy the formulas.

1	FILEID	FILETYPE	STRUCTURE	LOGRECNO	LOGRECNO	GEOID	Geography Name	B07401_0	B07401_1	B07401_2	B07401_3	B07401_4	B07401_5	B07401_6	B07401_7	B07401_8	B07401_9
2	FILEID	FILETYPE	STRUCTURE	LOGRECNO	LOGRECNO	GEOID	Geography Name	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati	Populati
3	ACSSF	2.01E+06	ca 0 1	1	0000001	04000US06	California	35914126	2190758	6699737	1063624	2575775	2730510	2535820	2629451	2629451	2629451
4	ACSSF	2.01E+06	ca 0 1	13	0000013							88514	114696	114071	113925		
5	ACSSF	2.01E+06	ca 0 1	14	0000014							1893	1644	1723	2451		
6	ACSSF	2.01E+06	ca 0 1	15	0000015							28589	12007	8875	11306		
7	ACSSF	2.01E+06	ca 0 1	16	0000016							2679	1979	1499	1785		
8	ACSSF	2.01E+06	ca 0 1	17	0000017												
9	ACSSF	2.01E+06	ca 0 1	18	0000018							61276	60744	59006	71006		
10	ACSSF	2.01E+06	ca 0 1	19	0000019							1850	1873	1901	1934		
11	ACSSF	2.01E+06	ca 0 1	20	0000020							8868	8208	8157	9957		
12	ACSSF	2.01E+06	ca 0 1	21	0000021							70870	74046	60914	58142		
13	ACSSF	2.01E+06	ca 0 1	22	0000022												
14	ACSSF	2.01E+06	ca 0 1	23	0000023							14696	9189	7055	7189		
15	ACSSF	2.01E+06	ca 0 1	24	0000024							12608	11354	10131	10074		
16	ACSSF	2.01E+06	ca 0 1	25	0000025							56760	57171	51525	49650		
17	ACSSF	2.01E+06	ca 0 1	26	0000026							13115	12398	11516	12333		
18	ACSSF	2.01E+06	ca 0 1	27	0000027							3164	3705	2997	4406		
19	ACSSF	2.01E+06	ca 0 1	28	0000028							2525	3032	2658	3308		
20	ACSSF	2.01E+06	ca 0 1	29	0000029							685733	801602	753973	752670		

- e. Copy and paste the formulas down the H3 and I3 columns to the last row of the data.

2010-2012 ACS 3-Year Summary File Technical Documentation

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	FILEID	FILETYPE	ST	CS	LOGRECNO	LOGRECNO	GEOID	Geography Name	B07401_0	B07401_1	B07401_2	B07401_3	B07401_4	B07401_5	B07401_6	
2	FILEID	FILETYPE	B	R	LOGRECNO	LOGRECNO	GEOID	Geography Name	Populatio	Populati	Populati	Populati	Populati	Populati	Populati	
3	ACSSF	2.01E+06	ca	0	1	1	0000001	04000US06	California	35914126	2190758	6699737	1063624	2575775	2730510	253
4	ACSSF	2.01E+06	ca	0	1	13	0000013	05000US06001	Alameda County, California	1437687	83440	238430	35525	88514	114696	114
5	ACSSF	2.01E+06	ca	0	1	14	0000014	05000US06005	Amador County, California	38663	1109	5460	1076	1893	1644	.
6	ACSSF	2.01E+06	ca	0	1	15	0000015	05000US06007	Butte County, California	212883	9670	33507	7930	28589	12007	8
7	ACSSF	2.01E+06	ca	0	1	16	0000016	05000US06009	Calaveras County, California	46436	1595	7170	1051	2679	1979	.
8	ACSSF	2.01E+06	ca	0	1	17	0000017	05000US06011	Colusa County, California	.	.	.	.	.	.	.
9	ACSSF	2.01E+06	ca	0	1	18	0000018	05000US06013	Contra Costa County, California	1011548	55839	190330	29783	61276	60744	59
10	ACSSF	2.01E+06	ca	0	1	19	0000019	05000US06015	Del Norte County, California	28492	1431	4944	959	1850	1873	.
11	ACSSF	2.01E+06	ca	0	1	20	0000020	05000US06017	El Dorado County, California	175652	8684	30988	5148	8868	8208	8
12	ACSSF	2.01E+06	ca	0	1	21	0000021	05000US06019	Fresno County, California	884573	65634	192065	28611	70870	74046	60
13	ACSSF	2.01E+06	ca	0	1	22	0000022	05000US06021	Glenn County, California	.	.	.	.	.	.	.
14	ACSSF	2.01E+06	ca	0	1	23	0000023	05000US06023	Humboldt County, California	125157	6007	17968	3491	14696	9189	.
15	ACSSF	2.01E+06	ca	0	1	24	0000024	05000US06025	Imperial County, California	159688	12281	34350	6251	12608	11354	10
16	ACSSF	2.01E+06	ca	0	1	25	0000025	05000US06029	Kern County, California	765026	57687	174744	25895	56760	57171	55
17	ACSSF	2.01E+06	ca	0	1	26	0000026	05000US06031	Kings County, California	140796	10575	27618	4456	13115	12398	13
18	ACSSF	2.01E+06	ca	0	1	27	0000027	05000US06033	Lake County, California	63904	3218	10637	1558	3164	3705	.
19	ACSSF	2.01E+06	ca	0	1	28	0000028	05000US06035	Lassen County, California	34510	1639	5057	825	2525	3032	.
20	ACSSF	2.01E+06	ca	0	1	29	0000029	05000US06037	Los Angeles County, California	9706124	590555	1807440	286895	685733	801602	753

10) Repeat steps 1 through 10 to obtain the margin of errors for the same sequence for California.

4 User References

4.1 Detailed Tables for the 2010-2012 ACS 3-year Estimates

It contains information on all detailed tables included in the 2010-2012 ACS 3-year Summary File. The table list is located in [Appendix E](#).

4.2 2010-2012 ACS 3-year Summary Levels/Components For Detailed Tables

It contains a list of the summary levels and components that are included in the 2010-2012 ACS 3-year Detailed Tables. The list is located in Appendix F.

4.3 Sequence Number and Table Number Lookup

It contains information on the relationship between the sequences and the tables, and indicates the relationship between the sequences and the subject areas. The Sequence Number and Table Number Lookup is available in Excel, text, and SAS dataset format, and is located here: www2.census.gov/acs2012_3yr/summaryfile/.

4.4 Table Shells List

It contains Table ID, Line Number, Unique ID (table ID + Line Number) and stub. The table shells list is located on the following site: www2.census.gov/acs2012_3yr/summaryfile/.

4.5 Excel Geography File

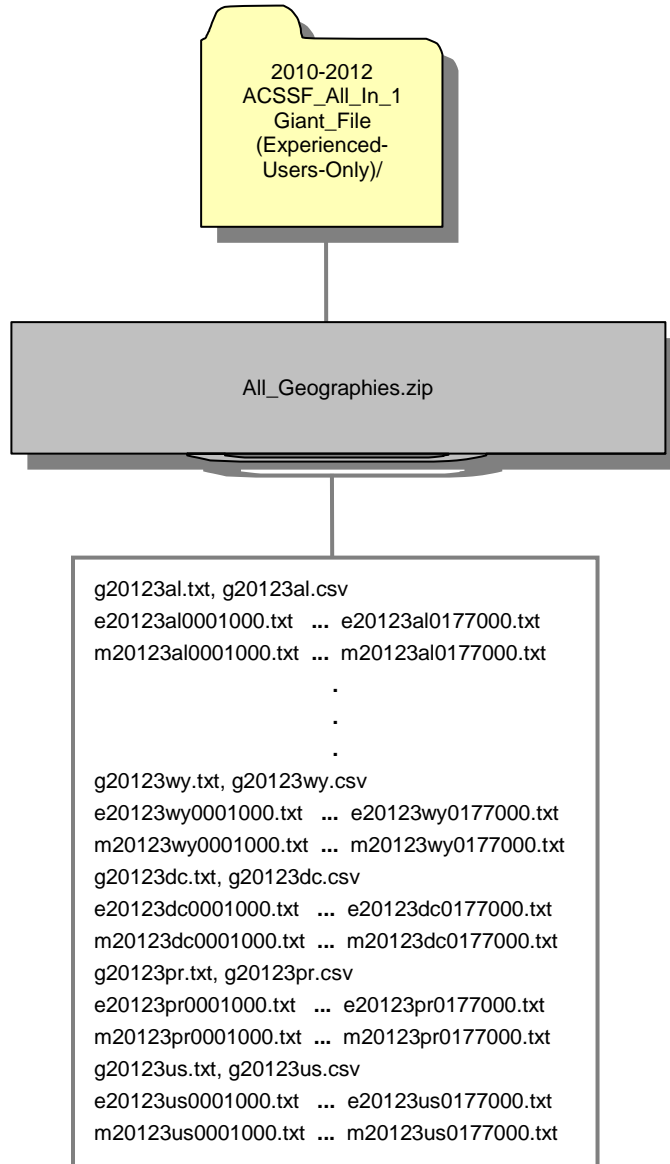
It contains logical record numbers (LOGRECNO), geography ID, and geographic labels by state. There are total of 53 tabs in the spreadsheet: one for each state, the District of Columbia and Puerto Rico, and one for geographies that cross state boundaries. The mini geography file list is located on the following site: www2.census.gov/acs2012_3yr/summaryfile/UserTools/Geography/.

Appendix A: Supplemental Documentation

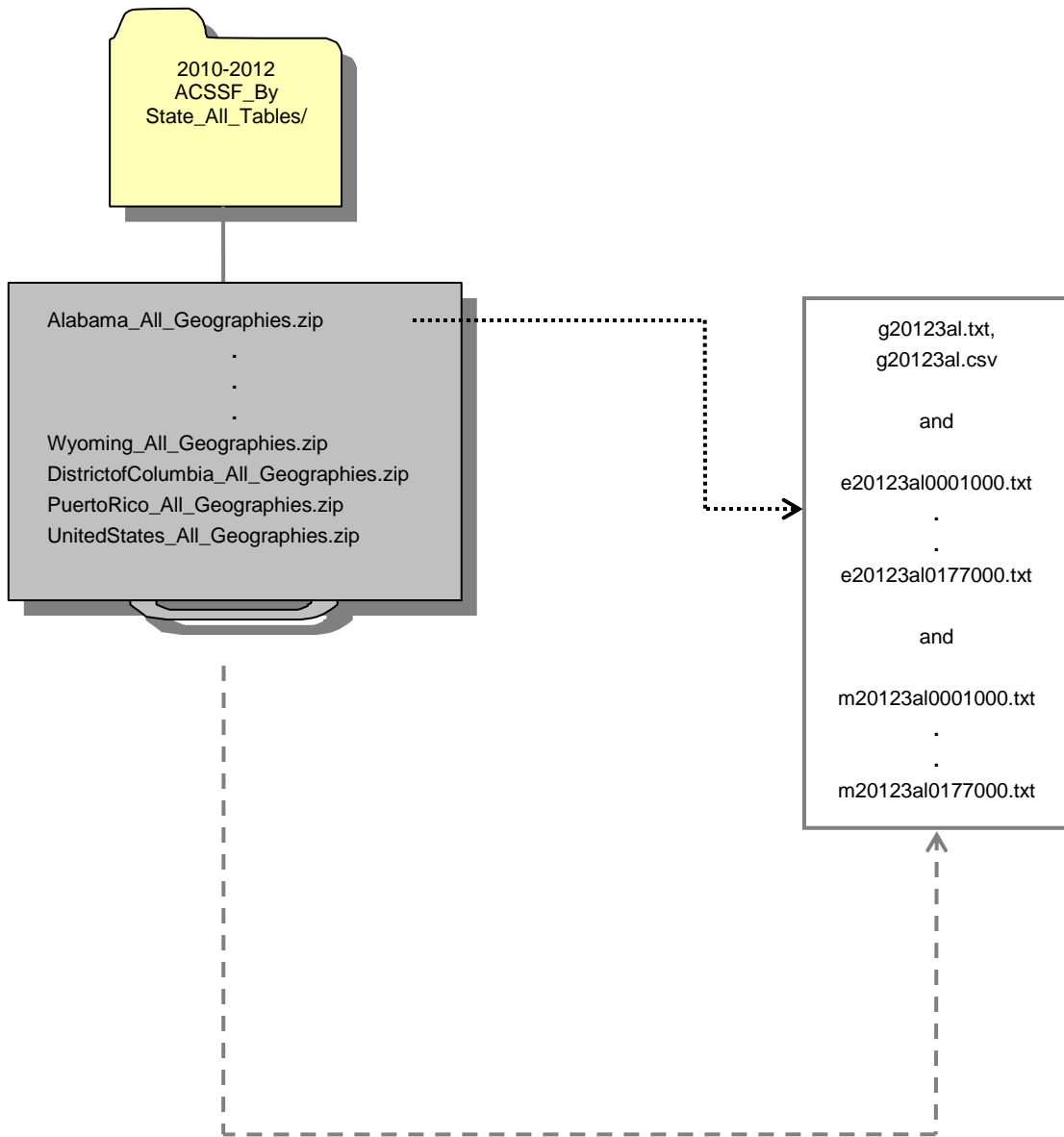
Supplemental documentation concerning the American Community Survey, to assist users using this technical document, is located on the ACS Website at: www.census.gov/acs/www/data_documentation/documentation_main/. Documents such as the Subject Definitions, Accuracy of the Data, and Code Lists are available on the URL listed above.

Appendix B: Graphical Representation of ACS Summary File Organization

B.1 2010-2012 ACSSF All In 1 Giant File (Experienced-Users-Only)

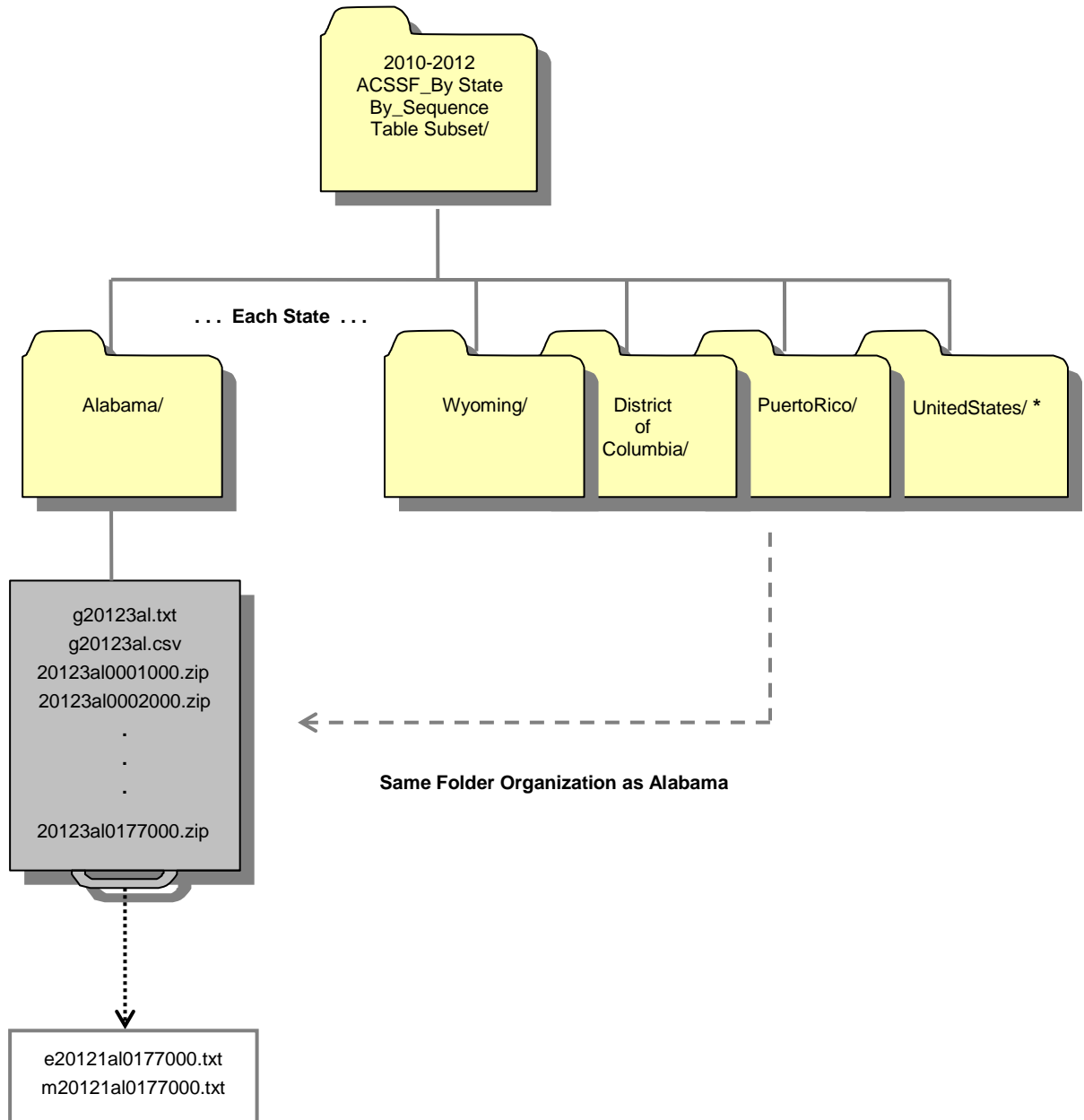


B.2 2010-2012 ACSSF By State All Tables



All Zipped Files have the Same File Organization

B.3 2010-2012 ACSSF By State By Sequence Table Subset



* The United States folder contains tables for summary levels that cross state boundaries, such as the nation, regions, divisions, metropolitan statistical areas and tribal reservations. It does not contain tables for geographies that are entirely within a state, such as counties and places; for those tables, go to the folder for that state.

Appendix C: User Notes

C.1 Population Thresholds

The Census Bureau publishes data for 1-year, 3-year, and 5-year estimates, with population thresholds set for the 1-year and 3-year estimates to produce reliable data. Here is a brief comparison of the three types of estimates:

1-Year Estimates	3-Year Estimates	5-Year Estimates
<ul style="list-style-type: none"> Published for selected geographic areas with populations of 65,000 or greater Represent the average characteristics over a calendar year Have fewer published geographic areas than the 3-year and 5-year estimates 	<ul style="list-style-type: none"> Published for selected geographic areas with populations of 20,000 or greater Represent the average characteristics over the 3-year period of time Have more published geographic areas than the 1-year estimates but fewer than the 5-year estimates 	<ul style="list-style-type: none"> Published for all geographic areas including those with a population under 20,000 Represent the average characteristics over the 5-year period of time Have more published areas than the 1-year and 3-year estimates

For more information on the ACS estimates, users are encouraged to visit the ACS website www.census.gov/acs/www/guidance_for_data_users/estimates/.

C.2 Geography Restrictions

For data quality and geographic reasons, some tables are published with specific geography restrictions. For example, the table B05001-PR, Citizenship Status in Puerto Rico, is produced for Puerto Rico only, and the table B08501, Means Of Transportation To Work By Age For Workplace Geography, is only produced for the work place geographies. [Appendix E](#) has a complete list of tables and their geography restrictions, and [Appendix F](#) has a complete list of ACS 3-year published summary levels and components. Other examples include the quality measures tables (the B98 series) and detailed occupation tables.

C.3 Jam Values

Some data values represent unique situations where either the information to be conveyed is an explanation for the absence of data, represented by a symbol in the data display, such as "(X)", or the information to be conveyed is an open-ended distribution, such as 115 or greater, represented by 115+.

The following special data values can appear in the ACS Summary File table as an explanation for the absence of data:

- Missing Value = “,”

A missing string indicates that the estimate is unavailable. (This appears in the estimates and margins or error files as two commas adjacent to each other without anything between them, or if the last cell in a data file is filtered then you get a comma followed immediately by a carriage return or EOF.) A missing value indicates when an estimate is missing because of filtering for geographic restrictions, coefficients of variations (CV), or was removed due to the Disclosure Review Board’s (DRB) requirements. For more detail on filtering, please see [Appendix C.5](#).

- Dot = “.”

A dot indicates when the estimate has no sample observations or too few sample observations. In the margin of error files, this value could also indicate that the margin of error is unavailable for a median estimate that has been replaced with a jam value.

- Zero = “0”

A “0” entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate. This is similar to the “*****” symbol used in American FactFinder.

- Negative 1 = “-1”

This indicates that an estimate does not contain a Margin of Error. Tables B00001, B00002, and tables starting with B98 and B99 do not have margin of error (MOE) associated with them. The MOE calculations are set to -1 for these tables.

- Jam Values for Medians

The following is a listing of the jam values for medians. For example, if there is an estimate of "2499" for table B10010, then it does not indicate a dollar amount. It means that the median is somewhere below 2,500 and thus isn't calculated.

Jam Value	Actual Meaning	Use for Medians
0	1 or less	Age, Duration of Marriage
9	9.0 or more	Rooms
10	10.0 or less	Gross Rent as Percentage of Income, Owner Costs as Percentage of Income
50	50.0 or more	Gross Rent as Percentage of Income, Owner Costs as Percentage of Income
99	100 or less	Rent, Gross Rent, Selected Monthly Owner Costs, Monthly Housing Costs
101	101 or more	Duration of Marriage
116	115 or more	Age
199	200 or less	Tax
1001	1,000 or more	Selected Monthly Owner Costs

Jam Value	Actual Meaning	Use for Medians
1939	1939 or earlier	Year Built
1969	1969 or earlier	Year Moved In
2001	2,000 or more	Rent, Gross Rent
2005	2005 or later	Year Built, Year Moved In
2499	2,500 or less	Income, Earnings
4001	4,000 or more	Selected Monthly Owner Costs, Monthly Housing Costs
9999	10,000 or less	Value
10001	10,000 or more	Tax
200001	200,000 or more	Income
250001	250,000 or more	Income, Earnings
1000001	1,000,000 or more	Value

C.4 Rounding Rules and Margins of Error

B00001, B00002, B98001, and B98002 are sample counts, not estimates, and do not have margin of error (MOE) associated with them. Tables in series B99* imputation tables and B98* quality measure tables do not provide margin of error calculations. The margin of error calculations are set to -1 for these tables.

There are a few special rules on how certain margin of error are determined for ACS estimates. The accuracy of the estimate (decimal place) within the detailed tables determines how many digits the margin of error is rounded.

C.5 Data Release Filtering Rules

Filtering rules, based on statistical reliability of the survey estimates, are used because certain geographic areas contain detailed tables include estimates whose level of reliability is unacceptable. The data release rules for the American Community Survey data tables include the following.

Every base table consists of a series of estimates. If more than half the estimates are not statistically different from 0 (at a 90 percent confidence level), then the table fails. Each estimate is subject to sampling variability that is summarized by its standard error. Dividing the standard error by the estimate yields the coefficient of variation (CV) for each of the estimates. (If the estimate is 0, a CV of 100 percent is assigned.) To implement this requirement for each table at a given geographic area, CVs are calculated for each of the table's estimates, and the median CV value is determined. If the median CV value for the table is less than or equal to 61 percent, the table passes for that geographic area; if it is greater than 61 percent, the table fails. Tables that are too sparse will fail this test. In that case, the table will not be published for that geographic area. Whenever a table fails, a simpler table that collapses some of the detailed lines together can be substituted for the original, more detailed table. The rules are then applied to the simpler table. If it passes, the simpler table is released. If it fails, none of the estimates for that particular

table is released for this geographic area. These rules are applied to single-year period estimates and multi-year period estimates based on three years of sample data.

C.6 Display of Estimates

The estimates in the summary files are stored using standard notation instead of in scientific notation. The estimates are stored as whole numbers. The largest estimate in a Summary File contains 14 digits.

C.7 Multiple Sequences For a Table

There are eight tables with more than the maximum 245 cells that cannot fit into a single sequence, so each of these tables is broken into multiple sequence files. The table below shows the tables that contain multiple sequences:

Tables That Are Contained in More Than One Sequence File

Table ID	Table Title	Sequences
B24010	Sex By Occupation For The Civilian Employed Population 16 Years And Over	116, 117
B24020	Sex By Occupation For The Full-Time, Year-Round Civilian Employed Population 16 Years And Over	122, 123
B24121	Detailed Occupation By Median Earnings In The Past 12 Months For The Full-Time, Year-Round Civilian Employed Population 16 Years And Over	133, 134, 135
B24122	Detailed Occupation By Median Earnings In The Past 12 Months For The Full-Time, Year-Round Civilian Employed Male Population 16 Years And Over	136, 137, 138
B24123	Detailed Occupation For The Full-Time, Year Round Civilian Employed Population 16 Years And Over	139, 140, 141
B24124	Detailed Occupation For The Full-Time, Year Round Civilian Employed Male Population 16 Years And Over	142, 143, 144
B24125	Detailed Occupation For The Full-Time, Year Round Civilian Employed Male Population 16 Years And Over	145, 146, 147
B24126	Detailed Occupation For The Full-Time, Year Round Civilian Employed Female Population 16 Years And Over	148, 149, 150

The last six tables on the list are only produced at the United States national level (summary level 010), and the files for these sequences will be blank for all other summary levels.

C.8 Explanation of Missing Estimates

Data users often question why certain American Community Survey (ACS) estimates are not available. Missing estimates can be caused by data suppression through various methods or restrictions that are applied to ACS data to limit the disclosure of information about individual respondents and to reduce estimates with unacceptable statistical reliability. The factors contributing to the data suppression include:

- Population thresholds (more information in section C1)
- Geographic restrictions for tables (more information in section C2)
- Data quality filtering (more information in section C5)
- Collapsed tables: ACS produces and releases two types of Detailed Tables, base tables and collapsed tables. The collapsed tables were introduced in an attempt to release more data to the public because many of the corresponding base tables were failing data quality filtering. Users may see the collapsed tables without counterpart detailed tables.
- DRB rules: Disclosure Review Board (DRB) establishes additional rules that specify what ACS data are released to ensure that the confidentiality of the individual's data are protected.
- Table cells and table topic restrictions: Table with more than 100 independent cells or tables with sensitive topics that could lead to disclosure risks are not allowed at the block group level.
- Table suppression for specific geographies: During the data review period, subject matter analysts may identify errors in microdata which occurred during data collection or early data processing and impacted tables and associated geographic areas. To avoid releasing unreliable estimates, one method used is to suppress tables for affected geographic areas at the last stage of the dissemination from being released to the public. Table suppression is documented in errata notes on the ACS Website on:
http://www.census.gov/acs/www/data_documentation/errata/

Additional information concerning data suppression is available on the ACS website on:
<http://www.census.gov/acs/www/>.

Appendix D: Examples

D.1 Creating a Table

The following 5-year Summary File example is also applicable to the 3-year Summary File. Let's say that you want to create Table B08406, "Sex of Workers by Means of Transportation to Work for Workplace Geography," for the state of Alaska. Which files do you need? How do you read the files?

You will need three files:

- 1) The `Sequence_Number_and_Table_Number_Lookup.xls` spreadsheet
- 2) The zipped file `20095ak0003000.zip` and the data file `e20095ak0003000.txt`
- 3) The geography file (`g20095ak.txt`)

Start with the `Sequence_Number_and_Table_Number_Lookup.xls` spreadsheet. Under the "Tblid" column, look for the value "B08406". You will see that the "Sequence Number" is "0003." This means that the estimates you are looking for are in the data file "e20095ak0003000.txt". How do you know this is the right file? You know this from the name of the file: the "e" stands for estimate, "2009" is the year, "5" means that these are 5-year estimates, "ak" is the state (Alaska), and "0003" is the sequence number (which contains the data for Table B08406). Likewise, you need the "m20095ak0003000.txt" file for the margins of error. These two files will be found in a zipped file specifying that it is all geographies that are "not track (or) block groups". That is because we want the estimates and margins of error for the state level, Alaska. See [Chapter 2.5](#) for more information.

When you open the estimate file, `e20095ak0003000.txt`, you will see the following comma-delimited fields on the first line:

```
ACSSF,2009e5,ak,000,0003,0000001,333471,266201,220762,45439,36132,5602,3705,...
```

The first six fields – from "ACSSF" to "0000001" – are identifiers:

- 1) The first field tells you that this is an ACS Summary File;
- 2) The second tells you that these data are five-year estimates for the year 2005-2009 (notice the "e" before "2009" and the "5" at the end);
- 3) The third tells you the state, ie. "ak" is Alaska;
- 4) The fourth is an iteration number;
- 5) The fifth is the sequence number,
- 6) The last is a logical record code, LOGRECNO. The LOGRECNO identifies the geographic area within a state.

These identifiers begin each new line in the estimate file, and the same holds true for the margin of error files. You can compare these identifiers with those in the respective margin of error file, `m20095ak0003000.txt`.

Then use the geography file for Alaska to determine the location within the state to which the data refer. The appropriate file is `g20095ak.txt`, where "g" stands for geography, "2009" is the

year, “5” is the period estimate (in this case, 5-year estimate), and “ak” is the state. The geography file, g20095ak.txt, defines the LOGRECNO. Each LOGRECNO in this file specifies a geographic area pertaining to the state. For example, a LOGRECNO of “0000001” means the state of Alaska; a LOGRECNO of “0000002” means just the urban areas in Alaska; a LOGRECNO of “0000003” refers to just rural areas in Alaska. (Each state geography file also contains the lower-case FIPS State Code.) Please be aware that each state has its own geography file. For more information, see [Chapter 2.4](#).

Glancing back at the Sequence Number and Table Number Lookup file, you will see that Table 08406 in sequence “0003” begins at the seventh position. From this point forward, for 51 fields (indicated on the same file), each field corresponds to the value of a “line number” in the table. So, field number seven, the 333471 value, corresponds to line number one, which is “Total”. Field number eight, the 266201 value, refers to line number two, which is “Car, Truck, or Van.” Field number nine, the 220762 value, corresponds to line number three, which is “Drove alone.” This continues all the way up to line number 51, at which point Table B08406 ends.

Were you to read all these files into a computer program using software such as SAS, you could translate the first nine fields of e20095ak0003000.txt as follows:

TABLE B08406: SEX OF WORKERS BY MEANS OF TRANSPORTATION TO WORK FOR WORKPLACE GEOGRAPHY

FILEID	FILE TYPE	STUSAB	CHARITER	SEQUENCE	LOGRECNO	Total	Car, Truck, or Van	Drove Alone
ACSSF	2009e5	ak	000	0003	0000001	333471	266201	220762
ACSSF	2009e5	ak	000	0003	0000013	2440	340	252
ACSSF	2009e5	ak	000	0003	0000014	5266	1046	620
ACSSF	2009e5	ak	000	0003	0000015	151263	135626	114936
ACSSF	2009e5	ak	000	0003	0000016	6421	2455	1586

Merging the geography file, the table shell, and the estimate and margin of error files together creates an excerpt of Table B08406, shown below:

Table ID	Line Number	Sequence Number	Table Title	Estimates	Margin of Error
B08406		003	SEX OF WORKERS BY MEANS OF TRANSPORTATION TO WORK FOR WORKPLACE GEOGRAPHY		
B08406		003	Universe: Workers 16 years and over		
B08406	1	003	Total:	333,471	+/-2,630
B08406	2	003	Car, truck, or van:	266,201	+/-2,589
B08406	3	003	Drove alone	220,762	+/-2,439
B08406	4	003	Carpooled:	45,439	+/-1,795
B08406	5	003	In 2-person carpool	36,132	+/-1,596

D.2 Creating a Table Using SAS

Here is an example of how to access the Summary Files for one table for all geographies from the ACS summary file. The following 5-year Summary File example is also applicable to the 3-year Summary File.

Question: I am interested in downloading table B01001 for all published ACS geographies, how would I do this?

- 1) Go to the Sequence Number and Detailed Table Number Lookup File ([Chapter 2.3](#)) to locate sequence number for table B01001. There are Excel and SAS dataset versions of the file. They are available at www2.census.gov/acs2012_5yr/summaryfile
- 2) Use the Summary File SAS Example Macros located at www2.census.gov/acs2012_5yr/summaryfile/UserTools/. Run the macro:

```
%TableShell(B01001);
```

This macro will provide metadata information on a given table, in this case B01001.

- 3) The following SAS dataset will be created with information about table B01001:

Table ID	Sequence Number	Line Number	Start Position	Total Cells in Table	Total Cells in Sequence	Table Title
B01001	0013		7	49 CELLS		SEX BY AGE
B01001	0013					Universe: Total population
B01001	0013	1				Total:
B01001	0013	2				Male:
B01001	0013	3				Under 5 years
B01001	0013	47				75 to 79 years
B01001	0013	48				80 to 84 years
B01001	0013	49				85 years and over

We can see that table B01001 is located in Sequence 0013; this applies to all published geographies.

- 4) We can read into SAS all tables in the 0013 sequence by running the SAS Example Macros:

```
%CallSt;
```

This macro will run a do loop creating State two-digit abbreviations, which will allow a simple way to read the Summary Files into SAS for all geographies. Each time a valid two digit state abbreviation is created, the macro %AllSeqs is run with the two digit state abbreviation.

The **%AllSeqs** Macro performs the following tasks:

- A. Read the geographic header file - **%AnyGeo** Macro.
 - B. There is a do loop to allow you to choose which sequences you would like to read in for example if you wanted sequence 0010 set the loop to be `do x=13 %to 13;` - The 0 values will be filled in.
 - C. Within the do loop the following macros will be executed:
 - a. **%TablesBySeq;** -- This will give information about the whole 0003 sequence, not just table B01001.
 - b. **%ReadDataFile** – This macro is called two times once for each type of estimate. This macro will generate and run SAS code for each sequence specified in the do loop in step 2 and for each geography specified in the **%Callst** macro.
 - c. Lastly, there is a merge statement that will merge together each of the three types of estimates and the geography header file by sequence number per geography.
- 5) You now will have all tables in the 0013 sequence read into SAS in the following dataset names, if the code is not modified, in the work directory Sf0013<st two-digit abbrev>.sas7bdat.

Appendix E: Detailed Tables for the 2010-2012 ACS 3-year Estimates

Table Number	Table Title	Geography Restrictions	Summary File Sequence Number	Summary File Starting and Ending Positions
B00001	Unweighted Sample Count Of The Population		1	7-7
B00002	Unweighted Sample Housing Units		1	8-8
B01001	Sex By Age		2	7-55
B01001A	Sex By Age (White Alone)		2	56-86
B01001B	Sex By Age (Black Or African American Alone)		2	87-117
B01001C	Sex By Age (American Indian And Alaska Native Alone)		2	118-148
B01001D	Sex By Age (Asian Alone)		2	149-179
B01001E	Sex By Age (Native Hawaiian And Other Pacific Islander Alone)		2	180-210
B01001F	Sex By Age (Some Other Race Alone)		2	211-241
B01001G	Sex By Age (Two Or More Races)		3	7-37
B01001H	Sex By Age (White Alone, Not Hispanic Or Latino)		3	38-68
B01001I	Sex By Age (Hispanic Or Latino)		3	69-99
B01002	Median Age By Sex		3	100-102
B01002A	Median Age By Sex (White Alone)		3	103-105
B01002B	Median Age By Sex (Black Or African American Alone)		3	106-108
B01002C	Median Age By Sex (American Indian And Alaska Native)		3	109-111
B01002D	Median Age By Sex (Asian Alone)		3	112-114
B01002E	Median Age By Sex (Native Hawaiian And Other Pacific Islander Alone)		3	115-117
B01002F	Median Age By Sex (Some Other Race Alone)		3	118-120
B01002G	Median Age By Sex (Two Or More Races)		3	121-123
B01002H	Median Age By Sex (White Alone, Not Hispanic Or Latino)		3	124-126
B01002I	Median Age By Sex (Hispanic Or Latino)		3	127-129
B01003	Total Population		3	130-130
C01001A	Sex By Age (White Alone)		3	131-139
C01001B	Sex By Age (Black Or African American Alone)		3	140-148
C01001C	Sex By Age (American Indian And Alaska Native Alone)		3	149-157
C01001D	Sex By Age (Asian Alone)		3	158-166
C01001E	Sex By Age (Native Hawaiian And Other Pacific Islander Alone)		3	167-175
C01001F	Sex By Age (Some Other Race Alone)		3	176-184
C01001G	Sex By Age (Two Or More Races)		3	185-193
C01001H	Sex By Age (White Alone, Not Hispanic Or Latino)		3	194-202
C01001I	Sex By Age (Hispanic Or Latino)		3	203-211
B02001	Race		4	7-16
B02003	Detailed Race	US Only	4	17-87

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B02005	American Indian And Alaska Native Alone For Selected Tribal Groupings		4	88-133
B02006	Asian Alone By Selected Groups		4	134-152
B02007	Native Hawaiian And Other Pacific Islander Alone By Selected Groups		4	153-167
B02008	White Alone Or In Combination With One Or More Other Races		4	168-168
B02009	Black Or African American Alone Or In Combination With One Or More Other Races		4	169-169
B02010	American Indian And Alaska Native Alone Or In Combination With One Or More Other Races		4	170-170
B02011	Asian Alone Or In Combination With One Or More Other Races		4	171-171
B02012	Native Hawaiian And Other Pacific Islander Alone Or In Combination With One Or More Other Races		4	172-172
B02013	Some Other Race Alone Or In Combination With One Or More Other Races		4	173-173
C02003	Detailed Race		4	174-192
C02005	American Indian And Alaska Native Alone For Selected Tribal Groupings		4	193-201
C02006	Asian Alone By Selected Groups		4	202-209
C02007	Native Hawaiian And Other Pacific Islander Alone By Selected Groups		4	210-214
B03001	Hispanic Or Latino Origin By Specific Origin		5	7-37
B03002	Hispanic Or Latino Origin By Race		5	38-58
B03003	Hispanic Or Latino Origin		5	59-61
C03001	Hispanic Or Latino Origin By Specific Origin		5	62-71
C03002	Hispanic Or Latino Origin By Race		5	72-83
B04001	First Ancestry Reported		6	7-115
C04001	First Ancestry Reported		6	116-147
B04002	Second Ancestry Reported		7	7-115
C04002	Second Ancestry Reported		7	116-147
B04003	Total Ancestry Reported		8	7-114
C04003	Total Ancestry Reported		8	115-145
B04004	People Reporting Single Ancestry		9	7-114
C04004	People Reporting Single Ancestry		9	115-145
B04005	People Reporting Multiple Ancestry		10	7-114
C04005	People Reporting Multiple Ancestry		10	115-145
B04006	People Reporting Ancestry		11	7-115
B04007	Ancestry		11	116-122
C04006	People Reporting Ancestry		11	123-154
C04007	Ancestry		11	155-159
B05001	Nativity And Citizenship Status In The United States	US Only	12	7-12
B05001PR	Nativity And Citizenship Status In Puerto Rico	PR Only	12	13-18
B05002	Place Of Birth By Nativity And Citizenship Status		12	19-33
B05003	Sex By Age By Nativity And Citizenship Status		12	34-56
B05003A	Sex By Age By Nativity And Citizenship Status (White Alone)		12	57-79
B05003B	Sex By Age By Nativity And Citizenship Status (Black Or African American Alone)		12	80-102
B05003C	Sex By Age By Nativity And Citizenship Status (American Indian And Alaska Native Alone)		12	103-125
B05003D	Sex By Age By Nativity And Citizenship Status (Asian Alone)		12	126-148

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B05003E	Sex By Age By Nativity And Citizenship Status (Native Hawaiian And Other Pacific Islander Alone)		12	149-171
B05003F	Sex By Age By Nativity And Citizenship Status (Some Other Race Alone)		12	172-194
B05003G	Sex By Age By Nativity And Citizenship Status (Two Or More Races)		12	195-217
C05001	Nativity And Citizenship Status In The United States	US Only	12	218-222
C05002	Place Of Birth By Nativity		12	223-230
B05003H	Sex By Age By Nativity And Citizenship Status (White Alone, Not Hispanic Or Latino)		13	7-29
B05003I	Sex By Age By Nativity And Citizenship Status (Hispanic Or Latino)		13	30-52
B05004	Median Age By Nativity And Citizenship Status By Sex		13	53-67
B05005	Year Of Entry By Nativity And Citizenship Status In The United States	US Only	13	68-88
C05003	Sex By Age By Nativity		13	89-103
C05003A	Sex By Age By Nativity (White Alone)		13	104-118
C05003B	Sex By Age By Nativity (Black Or African American Alone)		13	119-133
C05003C	Sex By Age By Nativity (American Indian And Alaska Native Alone)		13	134-148
C05003D	Sex By Age By Nativity (Asian Alone)		13	149-163
C05003E	Sex By Age By Nativity (Native Hawaiian And Other Pacific Islander Alone)		13	164-178
C05003F	Sex By Age By Nativity (Some Other Race Alone)		13	179-193
C05003G	Sex By Age By Nativity (Two Or More Races)		13	194-208
C05003H	Sex By Age By Nativity (White Alone, Not Hispanic Or Latino)		13	209-223
C05003I	Sex By Age By Nativity (Hispanic Or Latino)		13	224-238
C05005	Year Of Entry By Nativity In The United States	US Only	13	239-251
B05005PR	Year Of Entry By Nativity And Citizenship Status In Puerto Rico	PR Only	14	7-27
B05006	Place Of Birth For The Foreign-Born Population In The United States	US Only	14	28-187
C05005PR	Year Of Entry By Nativity In Puerto Rico	PR Only	14	188-200
B05006PR	Place Of Birth For The Foreign-Born Population In Puerto Rico	PR Only	15	7-52
B05007	Place Of Birth By Year Of Entry By Citizenship Status For The Foreign-Born Population		15	53-146
C05006	Place Of Birth For The Foreign-Born Population		15	147-214
B05008	Sex By Place Of Birth By Year Of Entry For The Foreign-Born Population		16	7-75
B05009	Age And Nativity Of Own Children Under 18 Years In Families And Subfamilies By Number And Nativity Of Parents		16	76-112
C05007	Place Of Birth By Year Of Entry By Citizenship Status For The Foreign-Born Population		16	113-169
C05008	Sex By Place Of Birth By Year Of Entry For The Foreign-Born Population		16	170-220
C05009	Age And Nativity Of Own Children Under 18 Years In Families And Subfamilies By Nativity Of Parents		16	221-235
B05010	Ratio Of Income To Poverty Level In The Past 12 Months By Nativity Of Children Under 18 Years In Families And Subfamilies By Living Arrangements And Nativity Of Parents		17	7-31
B05011	Period Of Naturalization		17	32-42
B05012	Nativity In The United States	US Only	17	43-45
B05012PR	Nativity In Puerto Rico	PR Only	17	46-48
C05010	Ratio Of Income To Poverty Level In The Past 12 Months By Nativity Of Children Under 18 Years In Families And Subfamilies By Nativity Of Parents		17	49-55
C05011	Period Of Naturalization		17	56-61
B06001	Place Of Birth By Age In The United States	US Only	18	7-66
B06001PR	Place Of Birth By Age In Puerto Rico	PR Only	18	67-126

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B06002	Median Age By Place Of Birth In The United States	US Only	18	127-131
B06002PR	Median Age By Place Of Birth In Puerto Rico	PR Only	18	132-136
B06003	Place Of Birth By Sex In The United States	US Only	18	137-151
C06001	Place Of Birth By Age In The United States	US Only	18	152-196
C06001PR	Place Of Birth By Age In Puerto Rico	PR Only	18	197-233
C06003	Place Of Birth By Sex In The United States	US Only	18	234-246
B06003PR	Place Of Birth By Sex In Puerto Rico	PR Only	19	7-21
B06004A	Place Of Birth (White Alone) In The United States	US Only	19	22-26
B06004APR	Place Of Birth (White Alone) In Puerto Rico	PR Only	19	27-31
B06004B	Place Of Birth (Black Or African American Alone) In The United States	US Only	19	32-36
B06004BPR	Place Of Birth (Black Or African American Alone) In Puerto Rico	PR Only	19	37-41
B06004C	Place Of Birth (American Indian And Alaska Native Alone) In The United States	US Only	19	42-46
B06004CPR	Place Of Birth (American Indian And Alaska Native Alone) In Puerto Rico	PR Only	19	47-51
B06004D	Place Of Birth (Asian Alone) In The United States	US Only	19	52-56
B06004DPR	Place Of Birth (Asian Alone) In Puerto Rico	PR Only	19	57-61
B06004E	Place Of Birth (Native Hawaiian And Other Pacific Islander Alone) In The United States	US Only	19	62-66
B06004EPR	Place Of Birth (Native Hawaiian And Other Pacific Islander Alone) In Puerto Rico	PR Only	19	67-71
B06004F	Place Of Birth (Some Other Race Alone) In The United States	US Only	19	72-76
B06004FPR	Place Of Birth (Some Other Race Alone) In Puerto Rico	PR Only	19	77-81
B06004G	Place Of Birth (Two Or More Races) In The United States	US Only	19	82-86
B06004GPR	Place Of Birth (Two Or More Races) In Puerto Rico	PR Only	19	87-91
B06004H	Place Of Birth (White Alone, Not Hispanic Or Latino) In The United States	US Only	19	92-96
B06004HPR	Place Of Birth (White Alone, Not Hispanic Or Latino) In Puerto Rico	PR Only	19	97-101
B06004I	Place Of Birth (Hispanic Or Latino) In The United States	US Only	19	102-106
B06004IPR	Place Of Birth (Hispanic Or Latino) In Puerto Rico	PR Only	19	107-111
B06007	Place Of Birth By Language Spoken At Home And Ability To Speak English In The United States	US Only	19	112-151
B06007PR	Place Of Birth By Language Spoken At Home And Ability To Speak English In Puerto Rico	PR Only	19	152-191
C06003PR	Place Of Birth By Sex In Puerto Rico	PR Only	19	192-204
C06007	Place Of Birth By Language Spoken At Home And Ability To Speak English In The United States	US Only	19	205-229
B06008	Place Of Birth By Marital Status In The United States	US Only	20	7-36
B06008PR	Place Of Birth By Marital Status In Puerto Rico	PR Only	20	37-66
B06009	Place Of Birth By Educational Attainment In The United States	US Only	20	67-96
B06009PR	Place Of Birth By Educational Attainment In Puerto Rico	PR Only	20	97-126
C06007PR	Place Of Birth By Language Spoken At Home And Ability To Speak English In Puerto Rico	PR Only	20	127-151
C06008	Place Of Birth By Marital Status In The United States	US Only	20	152-176
C06008PR	Place Of Birth By Marital Status In Puerto Rico	PR Only	20	177-201
B06010	Place Of Birth By Individual Income In The Past 12 Months (In 2012 Inflation-Adjusted Dollars) In The United States	US Only	21	7-61
B06010PR	Place Of Birth By Individual Income In The Past 12 Months (In 2012 Inflation-Adjusted Dollars) In Puerto Rico	PR Only	21	62-116
B06011	Median Income In The Past 12 Months (In 2012 Inflation-Adjusted Dollars) By Place Of Birth In The United States	US Only	21	117-121

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B06011PR	Median Income In The Past 12 Months (In 2012 Inflation-Adjusted Dollars) By Place Of Birth In Puerto Rico	PR Only	21	122-126
B06012	Place Of Birth By Poverty Status In The Past 12 Months In The United States	US Only	21	127-146
B06012PR	Place Of Birth By Poverty Status In The Past 12 Months In Puerto Rico	PR Only	21	147-166
C06010PR	Place Of Birth By Individual Income In The Past 12 Months (In 2012 Inflation-Adjusted Dollars) In Puerto Rico	PR Only	21	167-213
B07001	Geographical Mobility In The Past Year By Age For Current Residence In The United States	US Only	22	7-102
C07001	Geographical Mobility In The Past Year By Age For Current Residence In The United States	US Only	22	103-162
B07001PR	Geographical Mobility In The Past Year By Age For Current Residence In Puerto Rico	PR Only	23	7-102
B07002	Median Age By Geographical Mobility In The Past Year For Current Residence In The United States	US Only	23	103-108
B07002PR	Median Age By Geographical Mobility In The Past Year For Current Residence In Puerto Rico	PR Only	23	109-114
B07003	Geographical Mobility In The Past Year By Sex For Current Residence In The United States	US Only	23	115-132
B07003PR	Geographical Mobility In The Past Year By Sex For Current Residence In Puerto Rico	PR Only	23	133-150
B07004A	Geographical Mobility In The Past Year (White Alone) For Current Residence In The United States	US Only	23	151-156
B07004B	Geographical Mobility In The Past Year (Black Or African American Alone) For Current Residence In The United States	US Only	23	157-162
B07004C	Geographical Mobility In The Past Year (American Indian And Alaska Native Alone) For Current Residence In The United States	US Only	23	163-168
B07004D	Geographical Mobility In The Past Year (Asian Alone) For Current Residence In The United States	US Only	23	169-174
B07004E	Geographical Mobility In The Past Year (Native Hawaiian And Other Pacific Islander Alone) For Current Residence In The United States	US Only	23	175-180
B07004F	Geographical Mobility In The Past Year (Some Other Race Alone) For Current Residence In The United States	US Only	23	181-186
C07001PR	Geographical Mobility In The Past Year By Age For Current Residence In Puerto Rico	PR Only	23	187-246
B07004APR	Geographical Mobility In The Past Year (White Alone) For Current Residence In Puerto Rico	PR Only	24	7-12
B07004BPR	Geographical Mobility In The Past Year (Black Or African American Alone) For Current Residence In Puerto Rico	PR Only	24	13-18
B07004CPR	Geographical Mobility In The Past Year (American Indian And Alaska Native Alone) For Current Residence In Puerto Rico	PR Only	24	19-24
B07004DPR	Geographical Mobility In The Past Year (Asian Alone) For Current Residence In Puerto Rico	PR Only	24	25-30
B07004EPR	Geographical Mobility In The Past Year (Native Hawaiian And Other Pacific Islander Alone) For Current Residence In Puerto Rico	PR Only	24	31-36
B07004FPR	Geographical Mobility In The Past Year (Some Other Race Alone) For Current Residence In Puerto Rico	PR Only	24	37-42
B07004G	Geographical Mobility In The Past Year (Two Or More Races) For Current Residence In The United States	US Only	24	43-48
B07004GPR	Geographical Mobility In The Past Year (Two Or More Races) For Current Residence In Puerto Rico	PR Only	24	49-54
B07004H	Geographical Mobility In The Past Year (White Alone, Not Hispanic Or Latino) For Current Residence In The United States	US Only	24	55-60
B07004HPR	Geographical Mobility In The Past Year (White Alone, Not Hispanic Or Latino) For Current Residence In Puerto Rico	PR Only	24	61-66
B07004I	Geographical Mobility In The Past Year (Hispanic Or Latino) For Current Residence In The United States	US Only	24	67-72
B07004IPR	Geographical Mobility In The Past Year (Hispanic Or Latino) For Current Residence In Puerto Rico	PR Only	24	73-78
B07007	Geographical Mobility In The Past Year By Citizenship Status For Current Residence In The United States	US Only	24	79-108
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Appendix F: ACS 3-year Summary Levels/Components for Detailed Tables

Summary Level	Component	Name
010	00	United States
010	01	United States; Urban
010	43	United States; Rural
010	89	United States; American Indian Reservation and Trust Land-Federal
010	91	United States; Oklahoma Tribal Statistical Area
010	92	United States; Tribal Designated Statistical Area
010	93	United States; Alaska Native Village Statistical Area
010	94	United States; State Designated Tribal Statistical Area (Formerly SDAISA)
010	A0	United States; In Metropolitan or Micropolitan Statistical Area
010	C0	United States; In Metropolitan Statistical Area
010	C1	United States; In Metropolitan Statistical Area-In Principal City
010	C2	United States; In Metropolitan Statistical Area-Not In Principal City
010	E0	United States; In Micropolitan Statistical Area
010	E1	United States; In Micropolitan Statistical Area-In Principal City
010	E2	United States; In Micropolitan Statistical Area-Not In Principal City
010	G0	United States; Not In Metropolitan or Micropolitan Statistical Area
010	H0	United States; Not In Metropolitan Statistical Area
020	00	Region
020	01	Region; Urban
020	43	Region; Rural
020	A0	Region; In Metropolitan or Micropolitan Statistical Area
020	C0	Region; In Metropolitan Statistical Area
020	C1	Region; In Metropolitan Statistical Area-In Principal City
020	C2	Region; In Metropolitan Statistical Area-Not In Principal City
020	E0	Region; In Micropolitan Statistical Area
020	E1	Region; In Micropolitan Statistical Area-In Principal City
020	E2	Region; In Micropolitan Statistical Area-Not In Principal City
020	G0	Region; Not In Metropolitan or Micropolitan Statistical Area
020	H0	Region; Not In Metropolitan Statistical Area
030	00	Division
030	01	Division; Urban
030	43	Division; Rural
030	A0	Division; In Metropolitan or Micropolitan Statistical Area
030	C0	Division; In Metropolitan Statistical Area
030	C1	Division; In Metropolitan Statistical Area-In Principal City
030	C2	Division; In Metropolitan Statistical Area-Not In Principal City
030	E0	Division; In Micropolitan Statistical Area
030	E1	Division; In Micropolitan Statistical Area-In Principal City
030	E2	Division; In Micropolitan Statistical Area-Not In Principal City
030	G0	Division; Not In Metropolitan or Micropolitan Statistical Area
030	H0	Division; Not In Metropolitan Statistical Area
040	00	State
040	01	State; Urban

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Summary Level	Component	Name
040	43	State; Rural
040	A0	State; In Metropolitan or Micropolitan Statistical Area
040	C0	State; In Metropolitan Statistical Area
040	C1	State; In Metropolitan Statistical Area-In Principal City
040	C2	State; In Metropolitan Statistical Area-Not In Principal City
040	E0	State; In Micropolitan Statistical Area
040	E1	State; In Micropolitan Statistical Area-In Principal City
040	E2	State; In Micropolitan Statistical Area-Not In Principal City
040	G0	State; Not In Metropolitan or Micropolitan Statistical Area
040	H0	State; Not In Metropolitan Statistical Area
050	00	State-County
060	00	State-County-County Subdivision
160	00	State-Place
230	00	State-Alaska Native Regional Corporation
250	00	American Indian Area/Alaska Native Area/Hawaiian Home Land
310	00	Metropolitan Statistical Area/Micropolitan Statistical Area
312	00	Metropolitan Statistical Area/Micropolitan Statistical Area-State-Principal City
314	00	Metropolitan Statistical Area-Metropolitan Division
330	00	Combined Statistical Area
335	00	Combined New England City and Town Area
350	00	New England City and Town Area
352	00	New England City and Town Area-State-Principal City
355	00	New England City and Town Area (NECTA)-NECTA Division
400	00	Urban Area
500	00	State-Congressional District
795	00	State-Public Use Microdata Sample Area (PUMA)
950	00	State-School District (Elementary)
960	00	State-School District (Secondary)
970	00	State-School District (Unified)

Document History

Version #	Date	Summary of Changes
1	11/14/2013	Initial Release