ACS SF Worked Example

Here is an example of how to access the three different types of Summary File estimates for one table for all geographies from the ACS summary file.

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

1. Go to the ACS 2006 Summary File Technical Documentation for chapters 5 and 6 of the technical document these chapters provide information about the sequence numbers that each table is located in, there are files that summarizes this information at:

http://www.census.gov/acs/www/UseData/sf/2006/merge_5_6.xls http://www.census.gov/acs/www/UseData/sf/2006/merge_5_6.sas7bdat

2. Using the Summary File SAS Example Macros located at http://www2.census.gov/acs2006/Final_Summaryfile/SASExamplePrograms/summary_file_example_macros.sas

Run the macro for **%***TableShe11*(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

fileid	tblid	seq	order	position	cells	total	title	subject_area
ACSSF	B01001	0010		•	749 CELLS	3	SEX BY AGE	Age-Sex
ACSSF	B01001	0010					Universe: Total population	on
ACSSF	B01001	0010		1			Total:	
ACSSF	B01001	0010		2			Male:	
ACSSF	B01001	0010		3			Under 5 years	
	•		•	•			•	
•		•	•					
			•	•			•	
ACSSF	B01001	0010		49			85 years and over	

We can see that table B01001 is located in Sequence 0010; this applies to all published geographies.

4. We can read into SAS all of the 0010 sequences using the SAS Example Macros, this time using the macro

Run the Macro for %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 ran with the two digit state abbreviation.

%AllSeqs Macro performs the following tasks

- a) Read the Geographic header file % Any Geo 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=10 %to 10; The 0 values will be filled in.
- c) Within the do loop the following marcros will be executed
 - I. %TablesBySeq; This will give information about the whole 10 sequence, not just table B01001.
 - II. *ReadDataFile Macro is called 3 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.
 - III. 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 0010 sequences read into SAS in the following dataset names (if the code is not modified), in the work directory

Sf0010<st two-digit abbrev>.sas7bdat