The 2017 5-year American Community Survey data were downloaded from the Census Bureau’s FTP site:

<https://www2.census.gov/programs-surveys/acs/data/pums/2017/5-Year/unix_pus.zip>

The vintage of the four files contained in unix\_pus.zip (psam\_pus[abcd].sas7bdat) were created by Census on 1/29/2019.

For additional information, please see:

<https://www.census.gov/programs-surveys/acs/data/data-via-ftp.html>

Please also see the Census website regarding variance replicate estimates:

<https://www.census.gov/programs-surveys/acs/technical-documentation/variance-tables.html>

The SAS SURVEYMEANS procedure with Fay's BRR method generates variance estimates using the same formula described within the Census ACS documentation when replicate weights are utilized. Please review the following PDFs for additional information:

1. ACS replicate weights (estimated variance is defined in Equation 1 at the top of page 4)

[https://www2.census.gov/programs-surveys/acs/replicate\_estimates/2017/documentation/5-year/2013-2017\_Variance\_Replicate\_Tables\_Documentation.pdf?#](https://www2.census.gov/programs-surveys/acs/replicate_estimates/2017/documentation/5-year/2013-2017_Variance_Replicate_Tables_Documentation.pdf)

2. SAS SURVEYMEANS procedure that implements Fay's BRR method (page 9304 has the variance specification that utilizes the default value of epsilon=0.5)

<https://support.sas.com/documentation/onlinedoc/stat/142/surveymeans.pdf>