# ACS Complex Sample Specification for SAS and Stata

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The Successive Difference Replicates (SDR) estimation method is recommended when working with the American Community Survey (ACS) (U.S. Census Bureau, 2010). STATA supports SDR estimation; SAS users must use Jackknife Repeated Replication (JRR). Two sets of replicate weights are provided that correspond to household (WGTP1 - WGTP80) and person (PWGTP1 - PWGTP80) level analyses. Code is provided below for household level analyses and must be augmented accordingly.

## SAS:

**Stata:** (using the estimation of a mean value as our example)

#### Replicate weight method using menus

Sampling weight variable is your full sample pweight.

Successive Difference Replicates (sdr) are WGTP1 - WGTP80.

Within the procedure, specify "survey data estimation" in SE.

#### Replicate weight method using code

First svyset [pweight=\_yourwgt], sdrweight(WGTP1 - WGTP80) vce(sdr)
Then svy: mean \_yourvariable\_

### Reference

U.S. Census Bureau. (2010).Chapter 12: Variance estimation. ACS design and
 methodology. Available:
 https://www.census.gov/acs/www/Downloads/survey\_methodology/acs\_design\_meth
 odology ch12.pdf

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