Subject: When/How to use (de-normalized) weights for pooled data analysis (four waves of BD child anthro data
Posted by annadinnyc on Thu, 13 Mar 2014 14:49:03 GMT
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Hello,

I am interested in getting region-level means for the child anthropometric variables from the Bangladesh DHS 1999/2000, 2004, 2007, and 2011. As my base, I am using the PR files for 2004, 2007, and 2011 and the KR file for 2000 (since only children of interviewed women were measured/weighed). Also, for 2004 and 2007, I am using the HW files to get the anthro variables related to the new WHO standards, which I merge with the base files.

Once I pool the data, I understand (from the note by Rulin Ren) that I need to de-normalize the weights (hv005) using the following formula: hv005_denorm = hv005 X (#residential HH in country at time of survey)/(# HH interviewed in survey).

At this point, I am not sure how to use the survey weights in calculating the region-level means. My plan is to do the following: first calculate household means; then calculate region-level means. Do I use the de-normalized weights when calculating the household means or only when calculating the region-level means?

Also, I want to confirm that this is the correct code to use to set the survey design in STATA, where hv005_denorm is the de-normalized weight, hv021 is the primary sampling unit variable for BD, and hv023 is the strata id variable for BD (note: even though stratification changes over time, my understanding is that these variables capture the correct survey design for each survey year):

svyset [pweight=hv005_denorm], psu(v021) strata(v023)

Any suggestions would be much appreciated. Thank you.

Anna