Subject: Calculation of standard error of stunting at small subpopulation such as district
Posted by sd535 on Sat, 17 Jun 2017 17:06:00 GMT
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Hi,
I wish to calculate proportion of stunted children for the micro-level administrative units like district and sub-districts with their standard errors. I followed the usual method of complex survey method in SPSS. The problem I found that for the sub-population having single cluster the design effect is zero and also the standard error is zero. The SPSS plan code is given below.

COMPUTE WGT=V005/1000000.
EXECUTE .

* Analysis Preparation Wizard.
CSPLAN ANALYSIS
  /PLAN FILE='C:\Users\dell\Downloads\BDHS2011.csaplan'
  /PLANVARS ANALYSISWEIGHT=WGT
  /SRSESTIMATOR TYPE=WR
  /PRINT PLAN
  /DESIGN STRATA=V023 CLUSTER=V001
  /ESTIMATOR TYPE=WR.

May be I need the exact way for obtaining the standard error. If I avoid the sample design and use sampling weight only, I obtain the same estimates as I found using sampple design but the standard error is not now zero. Thus the issue is the design effect for the small sub-population. Is there any way to avoid such computation problem.

If I am working correctly and the results are theoretically reasonable, can you please inform me the exact reasons.

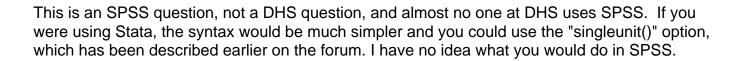If there is any other technique, please suggest e hw can I solve the problem.

Regards,
Sumonkanti Das

Subject: Re: Calculation of standard error of stunting at small subpopulation such as district
Posted by Bridgette-DHS on Mon, 19 Jun 2017 11:39:11 GMT
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Following is a response from Senior DHS Stata Specialist, Tom Pullum:

This is an SPSS question, not a DHS question, and almost no one at DHS uses SPSS. If you were using Stata, the syntax would be much simpler and you could use the "singleunit()" option, which has been described earlier on the forum. I have no idea what you would do in SPSS.

Subject: Re: Calculation of standard error of subpopulation such as district
Posted by roynaveen on Wed, 05 Apr 2023 08:52:53 GMT
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May I get the stata code for calculation standard error for sub-population such as districts for Indian states?

Subject: Re: Calculation of standard error of subpopulation such as district
Posted by Bridgette-DHS on Wed, 05 Apr 2023 13:08:49 GMT
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Following is a response from Senior DHS staff member, Tom Pullum:

A standard error is calculated for an estimate, such as the estimated mean value of an indicator. The procedure to calculate a standard error is the same for any subpopulation (unless you use Bayesian methods for nested populations).

Are you trying to match a number in a DHS report? Are you interested in some specific indicator?