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