Subject: NFHS-4 India sample design in R
Posted by asya_dm on Mon, 22 Feb 2021 13:55:18 GMT
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Hi! I am using data from NFHS-4 India for some analysis and I would like to account for complex survey design (using the survey package in R) before estimating the distribution of certain variables. However, I always get an error message when I try to calculate totals,means or other statistics and I am not sure why.

This is how my code looks like:

```
dhs_design <-
  svydesign(
    id = ~ v021, #primary sampling unit
    strata = ~v023,  #stratification used in sample design
    data = dhs_children,
    weights = ~v005/1000000)

svytotal( x= ~ multiple_birth, dhs_design, na.rm = TRUE)
```

The error message that I get:
Error in onestrat(x[index, , drop = FALSE], clusters[index], nPSU[index][1], :
  Stratum (902) has only one PSU at stage 1

Can you please let me know if I have correctly accounted for sample design? Is the stratification variable correct?
Your help will be very much appreciated.

Subject: Re: NFHS-4 India sample design in R
Posted by Bridgette-DHS on Tue, 23 Feb 2021 12:49:34 GMT
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Following is a response from DHS Senior Sampling Specialist, Mahmoud Elkasabi:

You need to run the following line code before you run the svydesign to avoid errors from single-PSU strata.

options(survey.lonely.psu = "adjust")