
Subject: Post-stratification for DHS data

Posted by [sd535](#) on Thu, 17 Nov 2016 03:36:00 GMT

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Hi,

I wish to post-stratify the Bangladesh DHS data at district-level according to the total number of children per district extracted from the recent census.

I use the following code for post-stratification. However, I didn't get any change after post-stratification. Am I doing any wrong?

Preliminary Design:

```
DHSdesign <- svydesign(id = child.data.HAZ$V001, strata=child.data.HAZ$V023, weights =
child.data.HAZ$V005/1000000, data=child.data.HAZ)
```

```
ps.weights <-
data.frame(
  CODIST = c( PostStrata.Wt.Cal$dist.id ) , # District ID (relates to CODIST )
  Freq = c( PostStrata.Wt.Cal$children.census ) # Number of children under 5
)
```

```
DHSdesign.Post.Strata <-
postStratify(
  DHSdesign ,
  strata = ~CODIST ,
  population = ps.weights
)
```

```
DE.MEAN.HAZ.District<-svyby(~HW70, ~CODIST, DHSdesign, svymean)
PS.DE.MEAN.HAZ.District<-svyby(~HW70, ~CODIST, DHSdesign.Post.Strata, svymean)
SE.DE.MEAN.HAZ.District<-svyby(~HW70, ~CODIST, DHSdesign, svymean)[,3]*100
PS.SE.DE.MEAN.HAZ.District<-svyby(~HW70, ~CODIST, DHSdesign.Post.Strata,
svymean)[,3]*100
```

```
> summary(DE.MEAN.HAZ.District)
  Min. 1st Qu.  Median    Mean 3rd Qu.   Max.
-241.6 -185.3 -162.2 -167.6 -146.8 -112.0
> summary(PS.DE.MEAN.HAZ.District)
  Min. 1st Qu.  Median    Mean 3rd Qu.   Max.
-241.6 -185.3 -162.2 -167.6 -146.8 -112.0
```

```
> summary(SE.DE.MEAN.HAZ.District)
  Min. 1st Qu.  Median    Mean 3rd Qu.   Max.
  0.0  935.5 1326.0 1298.0 1612.0 2536.0
> summary(PS.SE.DE.MEAN.HAZ.District)
  Min. 1st Qu.  Median    Mean 3rd Qu.   Max.
  0.0  935.5 1326.0 1298.0 1612.0 2536.0
```

There is no difference. And the most important problem is that the SE for one area is zero.

Can you please inform me where I am doing the wrong.
