Subject: DHS ZIMBABWE 2015
Posted by p.pajak on Wed, 29 Dec 2021 11:13:26 GMT
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Good Morning,

I am in the process of analysing the 2015 DHS from Zimbabwe. I am using R (I am quite new to the programme) and I am currently stuck as my DEFFs are all coming out negative (it should not happen in my case) or not at all.
I am analysing the data from 1 region only and I already did the cleaning and subset of my data.
I set my survey design following the instructions I found online from other users:

```
DHSdesign<-svydesign(id= ~fin_df$PSU,             #V021
                     strata= ~fin_df$STRATA,      #V022
                     weights= ~fin_df$PERWEIGHT,  #V005
                     data=fin_df)
```

Now, I want to calculate the DEFF for the variable C_SEX2 from my fin_df dataframe and I type the following:

```
DEFF<- svymean(~fin_df$C_SEX2, design=DHSdesign, na = TRUE, deff = TRUE)
```

the output is the following:

```
Warning message:
In svymean.survey.design2(~fin_df$C_SEX2 == 1, design = DHSdesign,  :
  Sample size greater than population size: are weights correctly scaled?

                  mean       SE DEff
fin_df$C_SEX20 0.548656 0.021449   NA
fin_df$C_SEX21 0.451344 0.021449   NA
```

I also tried:

```
DEFF1 <- svytotal(~fin_df$C_SEX2, design=DHSdesign, na = TRUE, deff = TRUE)
                 total      SE    DEff
fin_df$C_SEX20 144.736  12.150 -5.2710
fin_df$C_SEX21 119.065   9.295 -3.0851
```

Can anyone see a mistake or advise me?

Thank you very much in advance :)

Best wishes,
Patrizia