
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