
Subject: MLR for INDIA NFHS IV

Posted by phehintee@gmail.com on Thu, 04 Aug 2022 13:04:21 GMT

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Please I would appreciate if I can get help in confirming my coding for calculating level-weighting.

I used the Zimbabwe guide and downloaded the excel document provided for the approximation of the average number of households per cluster by sampling strata required for the approximation. https://github.com/DHSProgram/DHS-Analysis-Code/tree/main/Multilevel_Weights/India

So I just summed up the No of CEBs and total number of households and EA Average size in each column, then inputed them as M, A_h and M_h respectively.

Below are my STATA input

a* Stage A *** Compile parameters/inputs for Level-weights calculations

```
. *****
```

```
. * a_c_h completed clusters by strata
```

```
. gen a_c_h=.  
(94,388 missing values generated)
```

```
. quietly levelsof v022, local(lstrata)
```

```
. quietly foreach ls of local lstrata {  
. tab v021 if v022==`ls', matrow(T)  
. scalar stemp=rowsof(T)  
. replace a_c_h=stemp if v022==`ls'  
. }
```

```
. replace a_c_h=stemp if v022==`ls'
```

```
gen DHSwt = v005 / 1000000
```

*Step 1. De-normalize the final weight, using approximated normalization factor

```
. gen d_HH = DHSwt * (249454252/80137279)
```

```
. gen f = d_HH / ((696232/a_c_h) * (69361.60205/22))
```

* Calculating the level-weights based on different values of alpha

```
. local alphas 0 0.1 .25 .50 .75 0.90 1
```

. local i = 1

Please am I on track

Looking forward to your responsel

Subject: Re: MLR for INDIA NFHS IV
Posted by [Bridgette-DHS](#) on Thu, 04 Aug 2022 19:34:38 GMT
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Following is a response from DHS Senior Sampling Specialist, Mahmoud Elkasabi:

Please review the instructions in the report and the github page carefully.
Both A_h and M_h are district level data; the numbers should be disaggregated by districts. In your code you aggregated the numbers across all districts and used national number. This is not correct.
