
Subject: Malawi Micronutrient Survey design issue
Posted by [IsmailZoutat](#) on Thu, 23 Mar 2023 22:01:02 GMT
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I'm having some issue with the 2016 Malawi micronutrient survey. I'm using the biomarker dataset to investigate iodine status of school aged children and women of reproductive age.

While in the process of setting the survey design I noticed that the the typical variable for stratum was not present (v024). With respect to that I followed protocol and grouped region and urban/rural residence (mtype x mregion) on stata. Following on from that i then set a new variable named "wght" which took the sample weight variable labelled "mweight" and divided it by 1000000.

As the primary sampling unit variable, typically v021 or any variation of it, was not present I used the "mcluster" as a suitable alternative.

I then set the survey design as follows:

```
svyset mcluster [pw=wght], strata(stratum)
```

Now it all worked fine, however when took to assessing school aged children's characteristics i noticed some discrepancies between the values I was calculating vs those reported in the MNS 2017. I've included the discrepancies in the screenshots below.

Now they are very close to each-other but there should be no reason why my output should be any different to those in DHS report. The number of children are the same (n=800). From what I can only assume, either i've done something wrong in setting the survey design or theres something else at play here. Either way I would much appreciate anyone who can help solve this issue.

Just to add the values in the final MNS report screenshot are said to be weighted. So it's not that they are crude unadjusted values.

File Attachments

- 1) [Screenshot 2023-03-23 at 21.56.09.png](#), downloaded 101 times
 - 2) [Screenshot 2023-03-23 at 21.55.20.png](#), downloaded 100 times
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