Posted by Bridgette-DHS on Mon, 27 Mar 2023 19:07:28 GMT
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Following is a response from Senior DHS staff member, Tom Pullum:

I just looked at the MNS data in an effort to help with your questions. Unfortunately, my conclusions are that (a) the data are dirty and (b) I can't match the published results. Note that DHS had a secondary role in this component of the Malawi 2015-16 survey. It was mainly conducted by CDC (the U.S. Centers for Disease Control and Prevention).

There are four data files in Stata format from the MNS: MW_WRA.dta, MW_MEN.dta, MW_PSC.dta, and MW_SAC.dta. The files allegedly include the MNS results for Women of Reproductive Age, (age 15-49) Men (age 15-49), Pre-School Children (age 0-4) and School Age Children (age 5-14). In each file, the cluster id is mcluster, the household id is mnumber, and the line number is m01. These are supposed to match with hv001, hv002, and hvidx in the PR file. These files also include mweight, m04 (sex), m07 (age) and some other variables that are in the PR file. It is possible that the errors are with line number but I didn't explore that. [You previously asked about the WRA file and I suggested merging with the IR file, but looking at all 4 files together I think the merge should be with the PR file.]

Using Stata lines pasted below, I combined the four types of files into one and then merged with the PR file. I find many errors. For example, some cases appear to be misclassified--they are not in the correct file. hv104 and m04 do not always agree. hv105 and m07 do not always agree.

When I reconstruct the subsample of school age children, I get 800, matching the 800 in the report table that you give. However, this is the unweighted total. I don't match the breakdown the table gives by hv104, hv024, or hv025. I tried renormalizing mweight to match a total of 800 weighted cases, as well as unweighted cases, but I still do not match the breakdown by hv104, hv024, hv025.

In this situation, I recommend that you go through the steps to construct workfiles as shown in the Stata code, even if you do not match the published results. Good luck.

* Program to prepare the MNS data for analysis

cd e:\DHS\DHS_data\scratch

```
use        e:\DHS\DHS_data\MNS\MW_WRA.dta, clear
gen type=1
append using e:\DHS\DHS_data\MNS\MW_MEN.dta
replace type=2 if type==.
append using e:\DHS\DHS_data\MNS\MW_PSC.dta
replace type=3 if type==.
append using e:\DHS\DHS_data\MNS\MW_SAC.dta
replace type=4 if type==.
```

```
label variable type type_of_case
label define 1 "WRA" 2 "MEN" 3 "PSC" 4 "SAC"
label values type type

rename mcluster cluster
rename mnumber hh
rename m01 line
sort cluster hh line
save MW_MNS_sorted.dta, replace

use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\MWPR7AFL.DTA", clear
rename hv001 cluster
rename hv002 hh
rename hvidx line
sort cluster hh line
merge cluster hh line using MW_MNS_sorted.dta

tab _merge
keep if _merge==3
drop _merge
tab hv105 hv104 if type==3 [iweight=mweight/1000000]
tab hv105 hv104 if type==4 [iweight=mweight/1000000]
* We see classification errors across the initial files; revise the types

gen     typer=3 if hv105<= 4
replace typer=4 if hv105>= 5 & hv105<=14
replace typer=1 if hv105>=15 & hv105<=49 & hv104==2
replace typer=2 if hv105>=15 & hv105<=59 & hv104==1

label define typer 1 "Women 15-49" 2 "Men 15-59" 3 "Children 0-4" 4 "Children 5-14"
label values typer typer
tab type typer,m

* renormalize mweight
gen mweightr=.
summarize mweight if typer==1
replace mweightr=round(1000000*mweight/r(mean)) if typer==1
summarize mweight if typer==2
replace mweightr=round(1000000*mweight/r(mean)) if typer==2
summarize mweight if typer==3
replace mweightr=round(1000000*mweight/r(mean)) if typer==3
summarize mweight if typer==4
replace mweightr=round(1000000*mweight/r(mean)) if typer==4

* Check the distribution for children age 5-14
tab1 hv104 hv024 hv025 if typer==4 [iweight=mweightr/1000000]
```