Subject: Reproduce household ownership of ITN's using household member recode files
Posted by galka on Thu, 01 Dec 2016 19:06:40 GMT
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Hello,

I would like to calculate a range of indicators related to coverage and use of malaria interventions. Some of these are customarily reported at household level, others for children under 5 etc. To avoid downloading multiple datasets I was hoping to be able to reproduce the statistics using just Household Member Recode files. This, however, proved tricky.

I am able to replicate "Proportion of households with at least one mosquito net: Any mosquito net" in both HR and PR files matching DHS final report. When it comes to "Proportion of households with at least one mosquito net: ITN" I can only replicate in HR files, estimates in PR are off.

This seems to be the case in most surveys, the difference in magnitude, however, varies by country.
Here, for example, I tabulate data from Ghana 2014 DHS survey:

```
/* ======= using HR file */
use ghhr71fl.dta, clear;

gen anynet_hh= (hml1>0);
egen nmbitn_hh= rowtotal(hml10_*);
gen itnnet_hh= (nmbitn_hh>0);

sum anynet_hh itnnet_hh nmbitn_hh [w= hv005];
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
anynet_hh	11,835	1.1835e+10	.6958722	.4600565	0	1
itnnet_hh	11,835	1.1835e+10	.6834536	.4651484	0	1
nmbitn_hh	11,835	1.1835e+10	1.332503	1.25887	0	7

```
/* ======= using PR file */
use  ghpr71fl.dta, clear;
gen anynet= (hml1>0) if hml1<.;
by hv001 hv002, sort: egen nmbitn= total(hml10) ;
gen itnnet= (nmbitn>0);
sum anynet itnnet nmbitn [w= hv005] if hvidx==1;
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
anynet	11,835	1.1835e+10	.6958722	.4600565	0	1
itnnet	11,835	1.1835e+10	.4066891	.4912367	0	1
nmbitn	11,835	1.1835e+10	1.223365	1.914324	0	17

I also looked within the two files and found that there is disagreement in between the 2 files with respect to ITN ownership.

/* ======= using HR file */
hv001 hv002 hml10_1 hml10_2 hml10_3 hml10_4 hml10_5 hml10_6 hml10_7 nmbitn_hh
1 2 yes   1
1 6 yes   1
1 11 yes yes   2
1 14 yes yes   2
1 19 yes yes   2

/* ======= using PR file */
hv001 hv002 hvidx hml10 nmbitn
1 2 1 0
1 2 2 0
1 2 3 0
1 2 4 0
1 2 5 0
1 6 1 0
1 6 2 0
1 6 3 0
1 11 1 0
1 14 1 0
1 14 2 0
1 14 3 0
1 19 1 0
1 19 2 0
1 19 3 0
1 19 4 0
1 19 5 0
1 19 6 0
1 19 7 0
1 19 8 0
1 19 9 0
1 19 10 0

Please, advise whether and if so - how can household level statistics be replicated in PR files.

Many thanks,
Katya