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Subject: Re: urban-rural variable

Posted by [Trevor-DHS](#) on Fri, 24 Apr 2015 19:21:50 GMT

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It wasn't very clear from your explanation which survey and datasets you are using, but it appears that you are using the HIV tests results data, matched with other datasets. However it appears that there is a problem with the matching of your data. I would expect the number of women and men to be roughly equal, but you have twice as many men as women. Below is a short piece of code for matching with the persons recode file, and for checking the sex distribution:

```
cd "C:\Data\DHS_Stata"
use "IAPR52FL.dta"
clonevar hivclust = hv001
clonevar hivnumb = hv002
clonevar hivline = hvidx
merge 1:1 hivclust hivnumb hivline using "IAAR51FL.dta"
keep if _merge==3
tab hv104
tab hv025
tab sh025
tab sh025 hv025
```

From this, I received the following output:

```
. tab hv104
```

sex of   household   member	Freq.	Percent	Cum.
-----+-----			
male	51,641	48.88	48.88
female	54,016	51.12	100.00
-----+-----			
Total	105,657	100.00	

```
. tab hv025
```

type of   place of   residence	Freq.	Percent	Cum.
-----+-----			
urban	52,697	49.88	49.88
rural	52,960	50.12	100.00
-----+-----			
Total	105,657	100.00	

```
. tab sh025
```

city\town\c   ountryside	Freq.	Percent	Cum.
-----+-----			

mega city	8,696	8.23	8.23
large city	21,989	20.81	29.04
small city	6,352	6.01	35.05
large town	1,671	1.58	36.64
small town	13,989	13.24	49.88
rural	52,960	50.12	100.00
-----+-----			
Total	105,657	100.00	

. tab sh025 hv025

city\town\	type of place of		
countrysid	residence		
e	urban	rural	Total
-----+-----+-----			
mega city	8,696	0	8,696
large city	21,989	0	21,989
small city	6,352	0	6,352
large town	1,671	0	1,671
small town	13,989	0	13,989
rural	0	52,960	52,960
-----+-----+-----			
Total	52,697	52,960	105,657

As you can see in my tables (unweighted) there are about 49% men and 51% women, which is roughly what I would expect.

Also, as you can see the recoding of urban and rural makes sense in the last table.