Posted by Nelly_WHO on Wed, 29 Mar 2017 14:08:49 GMT
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Hello,
I am trying to reproduce the same figures as those published in the Statcompiler on the % of households with IRS in last 12 months. For some reasons, my figures do not align with yours. Would it be possible to share the stata/sas code that have been used to calculate those figures so I can compare?

With the following code, the % for Kenya, 2014 is 2.5%. In Stata compiler it is 0.8%. what am I doing wrong? Is anyone can help?

Thank you very much,
Nelly

```
// Determine whether the survey has the variables of interest: IRS
 cap confirm variable hv253
 if _rc == 0 {
  summ hv253
  if `r(N)' != 0 {

    rename hv253 irs_in_last_12mo
    replace irs_in_last_12mo = . if irs_in_last_12mo > 1

    gen sample_weight = hv005 / 1000000

    rename hv001 cluster_num


    keep iso3 startyear endyear module survey cluster_num hv023 sample_weight
irs_in_last_12mo

   // loop through to calculate survey-weighted means & SEs
   svyset [pweight=sample_weight], psu(cluster_num) strata(hv023)

   local m irs_in_last_12mo
   svy: mean `m'
   ereturn list
   matrix mean_IRS = e(b)
   matrix variance_IRS = e(V)
   matrix N_IRS = e(N_psu)
   local mean = mean_IRS[1,1]
   local se = sqrt(variance_IRS[1,1])
   local N = N_IRS[1,1]
   gen mean_`m' = `mean'
   gen semean_`m' = `se'
   gen uci_`m' = mean_`m' + 1.96*semean_`m'
```

```
gen lci_`m' = mean_`m' - 1.96*semean_`m'
gen N = `N'
drop semean*

keep iso3 startyear endyear module survey mean_* uci* lci* N
keep in 1

save " ${outdir}/${iso3}_${startyear}_${endyear}_${survey}_${module }_IRS.dta ", replace
```

Subject: Re: IRS in last 12 months
Posted by Liz-DHS on Fri, 31 Mar 2017 21:33:53 GMT
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Dear User,
A response from malaria expert, Cameron Taylor:
Quote:
Dear User,
Your code looks right except for you also need to account for the variables hv253a-hv253c which are specifying who sprayed the dwelling in your IRS variable. I also noticed in your code you are using the mean command and creating locals from that. You could shorten your code dramatically by using the estpost command which automatically stores results such as LB and UB from the command. Just sharing some helpful Stata tips!

```
svyset [pw=wt], psu(hv001) strata(hv023) singleunit(centered)
g irs=0
replace irs=1 if hv253==1 & (hv253a==1|hv253b==1|hv253c==1)

estpost svy: tab irs
ereturn list
```

Quote:

Thanks
Cameron