Subject: roportion of existing nets that have been used the previous night
Posted by Nelly_WHO on Wed, 03 May 2017 12:37:43 GMT
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Hi Cameron,

I am trying to match DHS stat compiler data on the Proportion of existing nets that have been used the previous night. Am I using the correct variables? hml10 and hml21?
Thank your very much,
Below is an extract of my code.
Melly

```
// Whether each bed net owned by the household is an ITN
  cap confirm variable hml10_01
  if _rc == 0 {
   forvalues n = 1/9 {
   cap rename hml10_0`n' bednet_is_itn`n'
   }
   forvalues n = 10/100 {
   cap rename hml10_`n' bednet_is_itn`n'
   }
  }
  cap confirm variable hml10_1
  if _rc == 0 {
   forvalues n = 1/9 {
   cap rename hml10_`n' bednet_is_itn`n'
   }
   forvalues n = 10/100 {
   cap rename hml10_`n' bednet_is_itn`n'
   }
  }

 // Determine whether the survey has the ITN variable
  cap confirm variable bednet_is_itn1
  if _rc == 0 {
   summ bednet_is_itn1
   if `r(N)' != 0 {

    // number of ITNs
     local ITNvar bednet_is_itn*
     egen nbITN = rowtotal(`ITNvar')

     cap confirm variable net_slept_under1
     if _rc != 0 {
      cap confirm variable hml21_01
      if _rc == 0 {
       forvalues n = 1/9 {
        rename hml21_0`n' net_slept_under`n'
```

```
  }
  forvalues n = 10/100 {
   cap rename hml21_`n' net_slept_under`n'
  }
 }
 cap confirm variable hml21_1
 if _rc == 0 {
  forvalues n = 1/9 {
   cap rename hml21_`n' net_slept_under`n'
  }
  forvalues n = 10/100 {
   cap rename hml21_`n' net_slept_under`n'
  }
 }
 forvalues n = 1/100 {
  cap replace net_slept_under`n' = . if net_slept_under`n' > 1
 }
}

// make a variable for how many ITNs were slept under the night before
 forvalues n = 1/100 {
  cap gen itn_slept_under`n' = 1 if net_slept_under`n' == 1 & bednet_is_itn`n' == 1
  cap replace itn_slept_under`n' = 0 if net_slept_under`n' == 0 | bednet_is_itn`n' == 0
 }
// calculate the total number of ITNs that were slept under
 egen total_itns_slept_under = rowtotal(itn_slept_under*)
// calculate the fraction of available nets that were used the night before
 gen frac_nets_used = total_itns_slept_under / nbITN


  // loop through to calculate survey-weighted means & SEs
   svyset [pweight=sample_weight], psu(cluster_n)
   local m frac_nets_used

  // TOTAL
   svy: mean `m'
   ereturn list
   matrix mean_matrix = e(b)
   matrix variance_matrix = e(V)
   local mean = mean_matrix[1,1]
   local se = sqrt(variance_matrix[1,1])
   gen prop_`m' = `mean'
   gen seprop_`m' = `se'
   gen uci_`m' = prop_`m' + 1.96*seprop_`m'
   gen lci_`m' = prop_`m' - 1.96*seprop_`m'
   drop seprop*
```