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Subject: How to calculate 'households with at least one ITN'

Posted by [drogers](#) on Wed, 20 Mar 2013 19:49:30 GMT

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I have been unable to reproduce the figures in the Liberia 2011 MIS for households with at least one ITN.

The DHS report shows 68.0% for U5 and 77.4% for pregnant women as % who slept under and ITN among households with at least one ITN. I can't figure out this denominator. As far as I can tell I need to use variable HML10, but it does not seem to be correct.

Is there a variable other than HML10 I should be using to reproduce the DHS figures?

Thanks for any advice out there!

Deirdre

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Subject: Re: How to calculate 'households with at least one ITN'

Posted by [Liz-DHS](#) on Thu, 11 Apr 2013 13:28:54 GMT

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Here's a response from one of our experts, Shawna Kelly:

HML10 is referencing the section RECHML: Malaria: By Mosquito Bednet. To reproduce the information in table 3.9 of the final report, you'll need to use variables in the section RECHMH Malaria: By Household Member and RECH1: Household schedule. Instead of HML10, you'll want to look at HML12.

Other useful resources: The Guide to DHS Statistics

[http://www.measuredhs.com/pubs/pdf/DHSG1/Guide\\_to\\_DHS\\_Statistics\\_29Oct2012\\_DHSG1.pdf](http://www.measuredhs.com/pubs/pdf/DHSG1/Guide_to_DHS_Statistics_29Oct2012_DHSG1.pdf)  
and The Standard Recode Manual

[http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6\\_DHS\\_22March2013\\_DHSG4.pdf](http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6_DHS_22March2013_DHSG4.pdf)

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Subject: Re: How to calculate 'households with at least one ITN'

Posted by [elaslan](#) on Mon, 29 Jul 2013 13:56:09 GMT

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drogers wrote on Wed, 20 March 2013 15:49 I have been unable to reproduce the figures in the Liberia 2011 MIS for households with at least one ITN.

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Deirdre

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Subject: Re: How to calculate 'households with at least one ITN'

Posted by [elaslan](#) on Mon, 29 Jul 2013 13:56:32 GMT

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good

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Subject: Re: How to calculate 'households with at least one ITN'

Posted by [Liz-DHS](#) on Fri, 06 Sep 2013 12:25:27 GMT

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Dear User,

I am not a programmer but I looked through some of our programs to create the table on Use of mosquito nets by pregnant women. Look through this. I think it might help identify the variables and denominators you need to use. Note: T1205 is the table name. V102w through total are the row variables. Col1205a+col1250b are the column variables. These are all working variables but you can get an idea of where they came from. For example V102w comes from V102 Type of residence (urban, rural). Our Standard Recode Manual

[http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6\\_DHS\\_22March 2013\\_DHSG4.pdf](http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6_DHS_22March 2013_DHSG4.pdf) and our Guide to DHS Statistics [http://www.measuredhs.com/pubs/pdf/DHSG1/Guide\\_to\\_DHS\\_Statistics\\_29Oct2012\\_DHSG1.pdf](http://www.measuredhs.com/pubs/pdf/DHSG1/Guide_to_DHS_Statistics_29Oct2012_DHSG1.pdf) should be of some assistance as well.

```
crosstab float(1) t1205 v102w+v101w+v106w+v190w+total col1205a+col1205b
      exclude(colzero,rowzero,totals,percents,specval)
```

```
      title( "Table 12.5 Use of mosquito nets by pregnant women", "",
            "Percentages of pregnant women age 15-49 who, the night before the survey, slept under
a mosquito net",
            "(treated or untreated), under an insecticide-treated net (ITN), under a long-lasting
insecticidal net (LLIN)",
            "and under an ITN or in a dwelling in which the interior walls have been sprayed against
mosquitoes (IRS) in the",
            "past 12 months; and among pregnant women age 15-49 in households with at least one
ITN, the percentage who",
            "slept under an ITN the night before the survey, by background characteristics, country,
2011" )
```

```
stub( "Background Characteristic" );
```

## PROC RECODE6\_FF

```
preproc
```

```
total    = 0;  
numwom2  = 1;  
numhh    = 1;  
percent  = 0;
```

```
unweight = ( sysparm()[1:1] = "U" ); { 0-Weighted, 1-unweighted }
```

```
postproc
```

```
{ constructs table to determine whether run is weighted/unweighted }  
txxx(unweight,0) = sysdate( "dd" ); { day }  
txxx(unweight,1) = sysdate( "mm" ); { month }  
txxx(unweight,2) = sysdate( "yyyy" ); { year }
```

```
{ table 12.5 }  
jtot1 = tblcol( t1205, col1205a );  
jmax = jtot1 - 1;  
do j = 0 while j <= jmax  
  t1205[*,j] = 100 * t1205[*,j] / t1205[*,jtot1];  
enddo;  
jtot2 = tblcol( t1205, col1205b );  
jmax = jtot2 - 1;  
do j = jtot1 + 1 while j <= jmax  
  t1205[*,j] = 100 * t1205[*,j] / t1205[*,jtot2];  
enddo;
```

## PROC HOUSEHOLD

```
preproc
```

```
if HV015 <> 1 then skip case endif;
```

```
{ initialize array for education variable to properly pouplate it in level 2 }  
do i = 1 while i <= 50  
  educat(i) = notappl;  
enddo;
```

```
postproc
```

```
if unweight then  
  rweight = 1;  
else  
  rweight = HV005/1000000;  
endif;
```

```

v102w = HV025;
v101w = HV024;
v190w = HV270;

```

```

hhitn = ( count( RECHML_EDT where HML10 = 1 ) > 0 );           { HH has an ITN net }
sprayed = ( HV253 = 1 & ( HV253A = 1 | HV253B = 1 | HV253C = 1 ) ); { households sprayed
by a government agency, private company or NGO }

```

```

{ table 12.5 }

```

```

for i in RECHMH_EDT do
  if HV103(i) = 1 & HML18 = 1 & HV104(i) = 2 & HML16 in 15:49 then { de-facto pregnant
women age 15-49 }
    { education is coming from level 2 for women with complete interviews }
    v106w = educat(i);
    if v106w = notappl then
      v106w = HV106(i);           { make sure to recode it as it is done at level 2 }
    endif;
    if v106w in 8,missing then v106w = 9 endif;
    anynet = ( HML12 in 1:3 );           { Any net }
    llinet = ( HML20 = 1 );             { LLIN net }
    itnnet = ( HML12 in 1:2 );          { ITN net }
    col1205b = notappl;
    col1205a = 5;
    xtab( t1205, rweight );
    if anynet then
      col1205a = 1;                 { any net }
      xtab( t1205, rweight );
    endif;
    if itnnet then
      col1205a = 2;                 { ITN nets }
      xtab( t1205, rweight );
    endif;
    if llinet then
      col1205a = 3;                 { LLIN net }
      xtab( t1205, rweight );
    endif;
    if itnnet | sprayed then
      col1205a = 4;                 { ITN net | IRS household }
      xtab( t1205, rweight );
    endif;
    { for households with ITN }
    col1205a = notappl;
    if hhitn then
      col1205b = 2;
      xtab( t1205, rweight );
      if itnnet then

```

```
col1205b = 1;  
xtab( t1205, rweight );  
endif;  
endif;  
endif;  
enddo;
```

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