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Subject: Difficulty reproducing DV prevalence results  
Posted by [mark.janko](#) on Tue, 02 Jul 2013 17:37:30 GMT  
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I am trying to replicate Table 16.1 from the 2010-11 Zimbabwe DHS final report (page 254), and am having difficulty doing so. I can replicate the "often physical violence in the last 12 months," as well as the "any physical violence in the last 12 months," but I cannot replicate "Ever" or "Sometimes in the last 12 months." I am wondering if someone can help explain why this is, and provide any suggestions as to how to fix the problem.

I am using Stata 11.2, and have defined the weighting scheme as follows:

```
gen wgt=d005/1000000  
svyset v021 [pweight=wgt], strata(v022) vce(linearized) singleunit(missing)
```

```
keep if v044==1
```

I have defined the physical violence variables as follows:

```
**Ever:**
```

```
gen epv=cond(1,d106==1|d107==1|d115y==0,0)
```

```
**Often (last 12 months):**
```

```
gen opv=cond(1, d105a==1|d105b==1|d105c==1|d105d==1|d105e==1|d105f==1|d105j==1|d117a==1,0)
```

```
**Sometimes (last 12 months):**
```

```
gen spv=cond(1, d105a==2|d105b==2|d105c==2|d105d==2|d105e==2|d105f==2|d105j==2|d117a==2,0)
```

```
**Any (last 12 months):**
```

```
gen adv=cond(1,odv==1|sdv==1,0)
```

My crosstab code, using the wealth index as an example, is as follows:

```
**Ever:**
```

```
tab v190 epv [iweight=wgt], row
```

```
**Often (last 12 months):**
```

```
tab v190 opv [iweight=wgt], row
```

```
**Sometimes (last 12 months):**
```

```
tab v190 spv [iweight=wgt], row
```

```
**Any (last 12 months):**
```

```
tab v190 apv [iweight=wgt], row
```

As I said, my results for often and any match up well to the DHS results, but ever and sometimes

do not. I have attached my results, as well as those of DHS for comparison.

On a side note, the denominator in the table is reported as 6542, but I noticed that there are 2 observations coded as "9" in the d106 and d107 variables (physical violence by husband/partner), and 13 observations coded as "9" in d117 "physical violence by non-husband/partner." Would this not mean that the actual denominator should be 6529? I have run my calculations both with and without these observations, and this does not explain the discrepancy.

Many thanks for any help that can be provided!

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### File Attachments

- 1) [janko\\_results\\_table16-1.txt](#), downloaded 1045 times
  - 2) [DHS\\_results\\_table16-1.JPG](#), downloaded 1116 times
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Subject: Re: Difficulty reproducing DV prevalence results

Posted by [Liz-DHS](#) on Thu, 05 Sep 2013 23:07:25 GMT

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Dear User,

Hope this will help. Using CSpRo here is some code and comments for the table you are trying to run. I am using code from our standard tables, so this may not match exactly but will give you an idea of how the application works. It may assist you in replicating the results. The variables used in our tables are working variables, but you can see where they actually come from.

Row Variables (separated by + signs)

V013W refers to V013 Age in 5-year groups  
v130w refers to V130 Religion  
v131w refers to V131 Ethnicity  
v102w refers to V102 Type of place of residence  
v101w refers to V101 Region  
v501w2 refers to V501 Current marital status  
v218w refers to V218 Number of living children  
v741w3 refers to V741 Type of earnings from respondent's work  
v106w refers to V106 Highest educational level  
v190w refers to V190 Wealth index  
tot1549 refers to a Total Variable for age 15-49

Column Variables (come after the row variables and separated from row variables by a blank)

coldv01a refers to a Column DV01 Variable and probably refers to the first two values in your table Ever, Oftencoldv01b refers to a Column DV01 Variable and probably refers to the second set of values Sometimes, Any  
numwom refers to the column with the number of women

If there was a \* separator, that would indicate a layer

PROC GLOBAL

```
{+-----+}
{+          +}
{+          +}
{+          +}
{+ CHAPTER DV. Domestic Violence          +}
{+          +}
{+ Table DVWT1: WORKING TABLE Background characteristics of respondents for the DV
module +}
{+ Table DV.1 : Experience of physical violence          +}

set explicit;

numeric i, imax, itot, j, jmax, jtot, imar, imar1, iepv, jepv, jany, jmax1, jmax2, iage, jphs;
numeric rweight;
numeric PVEver, SVEver, cnt;
numeric anyPV, anySV, AnyEV, freqPV, freqSV, freqEV, decision, wbeat, diffage, diffed;
numeric chusb, fhusb;
numeric d105aw, d105bw, d105jw, d105cw, d105dw, d105ew, d105fw, d105hw, d105iw,
d105kw, d103aw, d103bw, d103cw;

crosstab float(0) txxx unweight runday+runmonth+runyear
exclude(specval, rowzero, colzero, totals, percents)

title( "Tables for Domestic Violence, Country 2011" );

crosstab float(1) dvwt1
v013w+v130w+v131w+v501w2+v741w3+v102w+v101w+v106w+v190w+tot1 549 imarr*coldvwt1
exclude(rowzero,colzero,percents,totals,specval)

title( "WORKING TABLE Background characteristics of respondents for the DV module", " ",
"Percent distribution of women who completed the domestic violence module by selected
background",
"characteristics, Country 2011" )
stub( "Background characteristic" );

crosstab float(1) DV01
v013w11+v130w+v131w+v102w+v101w+v501w2+v218w+v741w3+v106w+v1 90w+tot1549
coldv01a+coldv01b+numwom
exclude(totals,specval,rowzero,colzero,percents)
{+US}
title( "Table DV.1 Experience of physical violence", "",
"Percentage of women age 15-49 who have ever experienced physical violence since age
15 and",
"percentage who have experienced violence during the 12 months preceding the survey,
```

```
by ",
    "background characteristics, Country 2011" )
    stub( "Background characteristic" );
```

```
PROC RECODE6_FF
```

```
preproc
```

```
numwom = 1;
numwom2 = 1;
numwom3 = 1;
ncurrm = 1;
emwoman = 1;
phsviol = 1;
twviol = 1;
total = 0;
tot1549 = 0;
```

```
unweight = ( sysparm()[1:1] = "U" ); { 1 - run unweighted tables }
```

```
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 DVWT1 processing }
```

```
itot = tblrow( dvwt1 );
jmax1 = tblcol( dvwt1, imarr = 1 coldvwt1 = 1 );
jmax2 = tblcol( dvwt1, imarr = 2 coldvwt1 = 1 );
do i = 0 while i <= itot
    dvwt1[i,jmax1] = dvwt1[i,jmax1+1] * 100 / dvwt1[itot,jmax1+1];
    dvwt1[i,jmax2] = dvwt1[i,jmax2+1] * 100 / dvwt1[itot,jmax2+1];
enddo;
```

```
{ Table DV.1 processing }
```

```
jtot = tblcol( DV01 );
jmax = jtot - 1;
do j = 0 while j <= jmax
    DV01[*,j] = DV01[*,j] * 100 / DV01[*,jtot];
enddo;
{ check unweighted N's }
Col2Dim( "dv01", dv01, 0, jtot-1, dv01u, 0 );
```