Subject: Calculating median age at first sex
Posted by [maras224](#) on Tue, 04 Aug 2015 22:06:28 GMT

I am trying to calculate median age at first sex, marriage, and birth in multiple countries and years.

I have succeeded in calculating age at first marriage and birth using the formula previously provided on this forum.(http://userforum.dhsprogram.com/index.php?t=msg&th=1337&goto=2470&S=08c954804736d97c007deae6e959abed#msg_247 0)

An example of my working Stata code is below. However, when I attempt to calculate median age at first sex (v531), I am unable to replicate the numbers provided in published reports. I believe this may have to do with categories that may need to be excluded, such as 0 - Not had intercourse, 97 - inconsistent, or 98 - don't know.

Has anyone successfully replicated the published medians for age at first sex, and if so, how? Thanks for your help.

```
use "KEIR52FL.DTA", clear
svyset v021 [pweight=v005], strata(v023)

* Median age at first marriage
* Ages 20-29
tab v511 [iweight=v005/1000000] if v013 >= 2 & v013 <= 3, missing
scalar mafm2029 = 20 + (50-46.45)/(54.98-46.45)
scalar list mafm2029
```

Subject: Re: Calculating median age at first sex
Posted by [Bridgette-DHS](#) on Fri, 07 Aug 2015 15:31:39 GMT

Following is a response fron Senior DHS Specialist Sarah Bradley:

You are correct: the problem was those who have never had sex, code 0 in v531. If we use v531 as-is, we are treating all those who have not had sex as though they first had sex at age 0. Please try the code below which matches the results in the Kenya 2008-09 final report.

You should also note a minor issue in the code you shared. The weight used in your svyset command (which isn't used below) should be v005/1000000, not v005.

```
gen wt = v005/1000000
* Recode v531, setting those who've never had sex to missing
recode v531(0=.), g(age1sex)
```

* Ages 20-49
tab age1sex [iweight=wt] if v013 != 1, miss
scalar age1sex2049 = 18 + (50-47.77)/(60.85-47.77)
scalar list age1sex2049

Subject: Re: Calculating median age at first sex
Posted by maras224 on Mon, 10 Aug 2015 13:53:48 GMT
View Forum Message <> Reply to Message

Thank you, Sarah. This was exactly what I needed to know. I was able to successfully replicate the published values for the three most recent surveys in Kenya and Zambia.