Subject: Re: Using tfr2 to Calculate age specific marital fertility rate Posted by schoumaker on Wed, 02 Oct 2019 17:04:49 GMT View Forum Message <> Reply to Message

Hello,

If I understand correctly what you want to do, you should use

. tabexp v025, rates mina(15) maxa(19) weight variable is v005 Preparing table of events and exposure for 3 year(s) preceding the survey Period covered: 8/2013 to 7/2016 Central date is 2015.0982 Number of cases (women): 2335 Number of person-years (weighted): 4482.1265 Number of events (weighted): 318.67191

v025 period ageg events exposure centry rate se_r urban 0 15 178.119 2852.75 2015.098 .0624375 .0046783 rural 0 15 140.553 1629.376 2015.098 .086262 .0072761

You get the adolescent fertility rate in each place of residence, and you obtain the weighted exposure and weighted number of births.

You can check that the weighted mean of the rates (exposure used as weights) is equal to the rate at the country level : 2852,75*0,0624375+1629,376*0,086262=0,0710984

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period ageg events exposure centry rate se_r 0 15 318.672 4482.126 2015.098 .0710984 .0039828

In contrast, if you do

tabexp if v025==1, rates tabexp if v025==2, rates

or

by v025, sort: tabexp, rates

the rates will be the same, but weighted events and exposure will not be the same as in the previous example, because the weights are normalized so that their sum is equal to the sample size. So, doing it separately by place of residence will not allow you to estimate the share of exposure in each place of residence. If sampling weights were all equal to 1, the two approaches would lead to the same results.

Since you mentioned you tried also the following command, I will briefly comment on this.

. tabexp if v012 <=19 & v025 ==1

Here, you are not computing events and exposure beetween 15-19, but among women aged 15-19 at the time of the survey. By default, the minimum age in tabexp and tfr2 will be 15. So, three years before the survey, you will only get events and exposure among women 15-16. So, if you want to work on a specific age group, use minage and maxage options, but do not select people on the age at the time of the survey.

Best,

Bruno

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