## Subject: Re: Using tfr2 to Calculate age specific marital fertility rate Posted by schoumaker on Wed, 02 Oct 2019 17:04:49 GMT <br> 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
```

In contrast, if you do
tabexp if $\mathrm{v} 025==1$, rates
tabexp if $\mathrm{v} 025==2$, 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 $\mathrm{v} 012<=19$ \& 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

