Subject: Weighting for calendar module
Posted by seinkim on Wed, 12 Jun 2024 23:03:56 GMT
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Dear DHS team,

I'm trying to analyize trends in using different contraceptive methods in Zambia using a calendar module as well as sub-group analysis, such as mean rate of contraceptive methods comparing urban to rural (or teeangers vs adults).

The data structure is like below:
ID month-year condom
1. Jan-2013. 1
1. Feb-2013. 0
1. Mar-2013. 0
.
.
1 Dec-2013. 1
ID
2. Jan-2013. 1
2. Feb-2013. 1
2. Mar-2013. 1
.
.
2 Dec-2013. 1

I want to calculate aggregated rate of using contraceptives each month, and each months have different numbers of observations. (not all individuals followed up for same lenght of months)

To do this, I used following code:
collapse (mean) condom injectable f_steralization m_steralization implants iud traditional [pweight = weight] , by(cmc teen)

Using this numbers, graphs were produced and I did regression analysis. I think I have to use individual weights but I'm not sure whether I'm doing correctly. Also, if I want to do sub-group analysis by urban vs rural, should I apply individual weights to calculate the aggregated mean by sub-groups?

Thank you!