Subject: AREG Model and Svyset
Posted by Nayab_M on Wed, 29 Mar 2017 20:14:53 GMT
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I am using the Pakistan DHS (2012-13) and trying to run an AREG model. Apparently the svyset command does not work with this. Is there an alternative command that would work. I can account for weights and the clustering but the stratum option only works with svyset as pointed out by Tom Pullum in this thread http://userforum.dhsprogram.com/index.php?t=msg&th=4908&goto=9278&S=Google

If I choose to ignore the stratum stratification but accounted for the weights and clustering, would it impact my results? The AREG model is essential since I am including regional effects for the 471 psus in this dataset.

Any help would be appreciated.

Thank you.

Subject: Re: AREG Model and Svyset
Posted by Bridgette-DHS on Thu, 30 Mar 2017 17:50:47 GMT
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Following is a response from Senior DHS Stata Specialist, Tom Pullum:

I'm not familiar with "areg" but it appears to be the same as usual regression with "i.". For example, the syntax would be "svy: regress v201 i.v013". If you have lots of categories, as with v001, then you maay need to reset matsize, as with "set matsize 10000" or some other larger number instead of 10000. You could also consider a mixed model with random effects (a random intercept) for v001.

Subject: Re: AREG Model and Svyset
Posted by Nayab_M on Fri, 31 Mar 2017 01:01:43 GMT
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Thank you so much for your help.
I wanted to ask which is the correct strata variable in Pakistan DHS 2012-13, v023 or v022. I used this command:

svyset [pweight=weight], psu(v021) strata(v023)

v023 is simply provinces classified as rural or urban while, v022 are 78 strata (numbered), so which one is recommended in the svyset command?

If v023 is the correct variable and I use it and I include province level dummies in the regression, would the inclusion of the province dummies be rendered useless?

Your assistance will be very valuable to me.
Thank you.

Subject: Re: AREG Model and Svyset
Posted by Bridgette-DHS on Tue, 04 Apr 2017 21:07:33 GMT
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Following is a response from Senior DHS Sampling Specialist, Ruilin Ren:

The labels for the variables V022 and V023 are confusing. The right variable for stratification for the Pakistan 2012 survey was given by V022. However there are less than 78 strata because the numbering is not continuous.