Subject: Re: domestic violence weights at psu level
Posted by Anonymous on Tue, 21 Mar 2023 04:01:16 GMT
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Thank you so much for your help.

In my linear regression with the dependent variable as IPV, I have one covariate X, as explained earlier, which is a ratio of column A to the psu level average of column A. I also have two more important co-variates B and C. I specify a model :

reg IPV B##C##X more controls // code in stata

The variables IPV, B, C, X are all binary 0,1 variables.
In the unweighted model, I get significant results for my two-way and three-way interaction terms with X and the two variables, say B and C.
However, the interaction terms (two-way and three-way) are no longer significant if I use the command svy with svyset v001 [pweight=d005], strata(v023) singleunit(centered).

I suspect that since psu-level comparisons are happening in variable X, using the national-level survey weight d005 may not be the best approach. Previous literature suggests that I should at least get significant two-way interaction between B and C, which I am not getting upon weighting in my case. I wonder if cluster-level weights would be more appropriate. Can you provide me the code to get cluster-level weights?

Can you please help me understand the best way to approach this issue? Thank you so much.