Subject: Re: Spatial analysis
Posted by David34 on Fri, 23 Aug 2024 17:17:50 GMT
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Thank you so much for your reply.

I computed cluster-level proportions with and without svyset and svy and got different results. Out of 457 clusters, the proportions were the same for 166 clusters, and different for the remaining 291 clusters.

Subtracting the proportions obtained without the svy prefix from those obtained WITH the svy prefix, the mean of the 291 differences was 0.0072, with a standard deviation of 0.0808. The minimum difference was -0.26, and the maximum difference was 0.1687.

Would it be appropriate to weight the proportions by using only the 'frequency weights' without using 'stratum' and 'PSU'? I tried this approach using the following Stata code:

. proportion ipv [fweight=d005], over(v001)

Please note that I could not divide d005 with 1000000 (d005/1000000), because Stata doesn't accept non-integer frequency weights.

The results were perfect match for 447 out of 557 clusters, while for the 10 records the differences were minuscule.

Several articles using DHS data for the spatial analysis of IPV, state that they used weighted proportions for hotspots and kriging. I wrote to some for clarification, but didn't get a reply!

Please guide me.

Thank you indeed.