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Subject: Re: Interpolated surfaces

Posted by [David34](#) on Wed, 13 Jul 2022 21:14:00 GMT

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Thank you so very much indeed for the generous help with the Stata code, I am very grateful! But I have few follow up questions please:

1 Could you help me better understand the statement "You do not need to do anything more with the weights; svyset and svy will re-normalize them" please? Does that mean, I would need to apply svyset and svy after running this Stata code to get weighted percentage of diarrhea at the cluster level?

2 After running this Stata code, I ended up with the variables: v001, v005, nch\_diarrhea\_yes, nch\_diarrhea\_no, nch\_diarrhea, prop\_diarrhea, and wt\_diarrhea. I am somewhat unsure here as to which variable I would need to merge with GPS coordinates please? In order to have weighted percentage/proportions of diarrhea at the cluster (v001) level, should I use the newly created variable 'prop\_diarrhea', and merge GPS coordinates to those clusters. Or do I need to first svyset the datafile to get the weighted proportions/percentage of diarrhea? And if so, how do I need to do that using Stata please?

3 Am I correct that the variable 'nch\_diarrhea' was created to correctly calculate the proportion of diarrhea at the cluster level? But 'prop\_diarrhea' is probably not the weighted proportion of diarrhea at the cluster level?

4 In this Stata code, is there a need to divide the weight with 1000000 i.e. v005 / 1000000? Or is it not necessary?

5 The newly created variable 'wt\_diarrhea' gives the weighted number of children at the cluster level. However, for creating interpolated surface, I would only need the weighted proportion/percentage of children with diarrhea at the cluster level? Am I correct here?

Thanks again, and please guide.

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