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Subject: Multilevel weights level 2

Posted by [Deidi](#) on Sun, 03 Nov 2024 21:54:33 GMT

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Dear DHS Forum,

I hope all is well. mr

I'm reaching out because I am working on a multilevel model using the 2015 Colombian dataset (IR & MR), and I am trying to figure out how to create second-level weights.

Specifically, I haven't been able to figure out what values to assign for A\_h and M\_h using Colombia's final reports (Volume I & 2). I haven't been able to identify a specific table with the distribution of EAs and their average size in number of households by region and type of residence (rural/urban) that correspond with the min and max value of v022(min 1, max 65). Also, in the survey, V022 and V023 do not have labels for which regions the values correspond to. If I tabulate v022 and rural/urban, I observe different values for rural and urban, but I'm not sure if that corresponds to A\_h or M\_h, or neither. Any guidance would be much appreciated.

Warm regards,

Deidi

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Subject: Re: Multilevel weights level 2

Posted by [Bridgette-DHS](#) on Mon, 04 Nov 2024 16:49:17 GMT

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Following is a response from Senior DHS staff member, Tom Pullum:

The files for the Colombia 2015 survey include another geographic subdivision, "Subregion". You can open the HR file and enter the following lines in Stata:

```
label list hv024  
label list hv025  
label list SHSUBREG
```

```
gen comb=1  
collapse (mean) comb, by(hv022 hv024 hv025 shsubreg)  
drop comb  
list, table clean noobs  
list, table clean nlabel noobs
```

This will help you to identify the geographic areas in the stratification, although with some remaining ambiguity. I wish DHS could help with the creation of cluster-level weights for specific surveys--actually I wish that DHS could have constructed them and made them available for all surveys. However, we are not able to do this. The sampling statistician who was our main expert

on this topic, Mahmoud Elkasabi, left DHS two years ago. Perhaps other users can help.

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Subject: Re: Multilevel weights level 2

Posted by [Deidi](#) on Tue, 05 Nov 2024 17:24:56 GMT

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Thank you Bridgette and Dr. Pullum! This response and code are very helpful. I really appreciate it.

And I second Dr. Pullum's sentiment. Making cluster-level weight variables available for all DHS surveys would be great and a huge help!

Warmly,

Deidi

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