
Subject: Do strata represent distinct geographic areas within the same region?

Posted by [aligazan](#) on Wed, 23 Jun 2021 14:41:23 GMT

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Hello

I am looking at Ethiopia 2016, which has 25 stratification units or strata (V023).

In some regions there are two strata, just urban and rural. In other regions there are two or more rural strata. What I would like to know, is whether the individuals in each strata are from the same geographic area?

e.g. Are the individuals in Tigray/Urban from several towns and cities, or are they from one large city in Tigray?

e.g. Are the individuals in the three different urban strata in Oromia (nos. 9, 10 and 11) from three distinct rural areas in Oromia

If this is the case, it would be most helpful to see the different strata shown on a map. Do you know if such a map exists?

Many thanks

Janet

Subject: Re: Do strata represent distinct geographic areas within the same region?

Posted by [Bridgette-DHS](#) on Wed, 23 Jun 2021 18:31:06 GMT

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Following is a response from DHS Senior Sampling Specialist, Mahmoud Elkasabi:

DHS surveys are based on stratified multi-stage sampling designs, where independent multi-stage samples are selected per strata. Within each stratum implicit stratification is applied to make sure that the selected primary sampling units are representing different geographic levels and areas. More details can be found in the DHS sampling manual. So regarding your question, "whether the individuals in each strata are from the same geographic area?", the answer is no; the sample is distributed over different geographic areas.

Regarding the Oromia example you mentioned, this was a special scenario, where we had to create 3 sub-strata within the rural-Oromia to deal with the huge size of that stratum (rural-Oromia).

Subject: Re: Do strata represent distinct geographic areas within the same region?

Posted by [aligazan](#) on Thu, 24 Jun 2021 08:16:03 GMT

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Thank you so much for your reply.

Yes, I have seen the guidance in DHS on how stratification units are selected, but I hope you don't mind if I ask for further clarification.

The individuals in each strata are from the same region, and of the same type (urban or rural). I have three questions;

1) Are the urban strata taken from a range of urban areas within the same region e.g. in the case of Ethiopia 2016, strata 3 is Afar Urban, and strata 4 is Afar Rural. Are the clusters/individuals in AFar Urban from a range of urban locations within Afar, or are they from one urban location etc.?

2) Where there are more than one rural strata in a region (in Ethiopia 2016 this is the case for Amhara, Oromia and SNNPR) how are the clusters/individuals within it located? Do these strata reflect the zones/districts within the region they are in?

3) In these areas where there are more than one rural strata in the region, if they are not divided geographically or by administrative boundaries e.g. by zones/districts, is there any other grouping or selection method used?

Thanks in advance,

Janet

Subject: Re: Do strata represent distinct geographic areas within the same region?
Posted by [Bridgette-DHS](#) on Thu, 24 Jun 2021 18:53:37 GMT
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Dr. Elkasabi reviewed your post and has nothing to add to his previous response.
