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Subject: Decile Share Thru Wealth Index Factor (stata)

Posted by [smileyc](#) on Sat, 07 Jun 2014 13:10:50 GMT

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Hi,

I would like to seek help in generating wealth index by deciles.

I am using xtile decile [weight=weight]=hv271, nq(10) but I think this is not the write syntax in stata

Hope to hear from you.

Thanks!

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [Liz-DHS](#) on Sat, 07 Jun 2014 23:54:22 GMT

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Dear User,

I have submitted your question to one of our experts. We will get back to you as soon as we can.

Are you working with a specific data set?

Thanks

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [Reduced-For\(u\)m](#) on Sun, 08 Jun 2014 01:24:46 GMT

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I just tried the code in Stata and it seemed to run OK and produce 10 values (1-10) marking each observation as in the first (second...tenth) deciles.

What is the concern you are having?

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [smileyc](#) on Sun, 08 Jun 2014 02:46:26 GMT

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Thank you for forwarding this concern. I am using the household member recode of Bangladesh (DHS 2011).

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [smileyc](#) on Sun, 08 Jun 2014 02:57:14 GMT

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Hello,

Thank you for taking time to help me. I am trying to get the share of the richest 10% of the schooling years.

I first tried to compare the wealth index (hv270) with the variable I created "xtile quint [weight=weight] = hv271, nq(5)"

to check if I can generate decile share using hv271 but the results of hv270 is not similar with the results of the quint variable.

Thanks again.

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [Reduced-For\(u\)m](#) on Sun, 08 Jun 2014 20:09:42 GMT

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Hmmmm... so looking through the 2011 Bangladesh report (I don't know which country you are looking at, but it is likely similar), I see this:

Once the index is computed, national-level wealth quintiles (from lowest to highest) are obtained by assigning the household score to each de jure household member, ranking each person in the population by his or her score, and then dividing the ranking into five equal categories, each comprising 20 percent of the population.

Which indicates to me that perhaps you need to implicitly weight by household size to back out the proper wealth quintiles (because each household member gets the household score, and then all people surveyed are ordered to find the quintiles instead of each household surveyed). So you might try using the household member recode to do this breakdown - that would also increase the probability you are using the same weights as the DHS people - I don't know for sure, but it sounds like they do this using the individual household member list, and not the household schedule (which is where the HV variables come from).

Let me know if that works.

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [smileyc](#) on Mon, 09 Jun 2014 04:18:58 GMT

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Hello, Thank you very much for this useful information. I will try this.

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [Liz-DHS](#) on Mon, 09 Jun 2014 18:15:42 GMT

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Dear User,

Here also is a response from Dr. Shea Rutstein. Dr. Rutstein is not a STATA expert, but he offered the following:

I am not the expert for STATA, but I think the code should be:

Use `xtile pctldecile=decile=hv271 [weight= hv012*hv005/1000000], nq(10)`. The quantiles (percentiles) are based on the de jure household population so the weight is the household weight multiplied by the number of de jure household members. I don't think that this procedure gives the cutpoints but rather recodes hv271 into 10 categories. Use `pctldecile` to get the cutpoints.

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Subject: Re: Decile Share Thru Wealth Index Factor (stata)

Posted by [smileyc](#) on Tue, 10 Jun 2014 03:48:01 GMT

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Dear Ms. Liz,

This would be very useful. Thank you very much to you and to Dr. Shea Rutstein.

Best regards!