Subject: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by Withadel on Thu, 17 Apr 2025 18:18:22 GMT
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I am currently working with the India NFHS-5 Individual Recode (IR) dataset for a project analyzing maternal health service utilization. While going through the guide on sampling weights, I still have some doubts and would appreciate any clarification.

Context of my analysis:

Dataset: IAIR7DFL.DTA

Population of interest: women aged 1549 who had a live birth in the past 5 years

Main outcomes: number of ANC visits (categorical), institutional delivery (binary)

Software: Stata 17

I understand from the DHS documentation that v005 should be used as the weight variable, and that it needs to be divided by 1,000,000 before applying. However, I am still confused about how to properly specify this in the svyset command in Stata, and how clustering and stratification should be handled for India, which has a complex sampling structure.

I came across some posts and papers suggesting using v023 as the stratification variable instead of v022, especially for India. Could someone confirm which one is appropriate here?

Given that NFHS-5 has state-specific sampling frames and uses oversampling in some states/urban areas, is there any adjustment needed beyond this basic svyset structure? Or does DHS already account for that in v005?

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by Wersed on Wed, 07 May 2025 08:10:11 GMT
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Use v005 as the weight (divide by 1,000,000), v021 for clustering, and v023 for stratification--not v022, which is less accurate for India. The weight already accounts for oversampling, so no extra adjustment is needed.

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by Withadel on Fri, 16 May 2025 03:05:15 GMT
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Okay, I will try the method you suggested.
slice master

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by Andreaa23 on Mon, 02 Jun 2025 09:53:01 GMT
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You're correct to pay attention to the details of DHS sampling design--getting the survey settings right is crucial for valid inference. Here's how you can properly set up the survey design in Stata 17 for analyzing the NFHS-5 (India) dataset.

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by miaowschool on Thu, 12 Jun 2025 02:21:42 GMT
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v022 vs v023 is a common source of confusion. For the India DHS (NFHS) dataset, `v023` is recommended as the stratification variable instead of `v022`. `v022` is the standard DHS stratification variable, but in the case of India, due to state and urban/rural sampling, `v023` more accurately captures the actual strata used in the sample design. So your `svyset` command should be:

svyset [pw=weight], psu(v021) strata(v023)

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by Dahliamenick on Tue, 15 Jul 2025 15:48:54 GMT
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To set the correct sample weights in Stata with NFHS-5, use the command: svyset v021 [pweight=weight], strata(v023) after creating weight = v005/1000000.
Poor Bunny

Subject: Re: Clarification on applying sampling weights in Stata using India NFHS-5
Posted by ryansmith5322 on Sat, 23 Aug 2025 08:32:33 GMT
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From what I read in the DHS forums, some people suggest that for India v023 might be more appropriate because it aligns better with the way strata are defined, but I haven't seen a clear confirmation in the documentation.

If anyone has a concrete example of a correct svyset line for NFHS-5 IR data (weight + PSU + strata), that would be super helpful. It would clear up whether we need to make any additional adjustment for the oversampling in urban areas or if it's already fully handled by DHS through v005.