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Subject: Re: Multilevel Regression Analysis  
Posted by [Bridgette-DHS](#) on Mon, 13 Feb 2023 13:39:04 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

I did a quick comparison of the 2000 and 2005 Ethiopia surveys and I see no differences in the design, so I don't understand why you would have a problem with the 2000 survey, but not with, say, the 2005 survey.

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

Yes, it's crucial to include the weights (to get unbiased estimates) and yes, a variable used in the description of the design can also be included as a covariate.

All I can suggest is that you use some general strategies for isolating problems like this. The first would be to start with a simple single-level model and then add specifications one at a time. Another would be to start with a complex model and peel away some specifications (but that's what you have been doing...).

The older surveys, including both 2000 and 2005, do not have hc70-hc72 (in the PR file; hw700-hw72 in the KR file). I assume you have merged those variables in using the HW41 and HW51 files.

Perhaps other users can help.