

Understanding Society User Support - Support #1362

Deriving own weights

06/16/2020 04:27 PM - Karen Mak

Status:	Feedback	Start date:	06/16/2020
Priority:	Normal	Due date:	06/24/2020
Assignee:	Olena Kaminska	% Done:	90%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Hope you are well.			
My research focuses on the relationship between arts engagement (Wave 2) and wellbeing (Wave 5) using OLS regression. I understand that if I am using more than one wave, a longitudinal weight is more appropriate. But using that would lead to a significant drop in my sample size, therefore I would like to derive my own weight based on the the guidelines stated in "Understanding Society: Weighting and Sample Representation FAQ 2019". I have prepared the weighting codes and I would be extremely grateful if you could let me whether the coding is correct:			
gen responseW5=1 if e_hidp!=. & b_hidp!=. replace responseW5=0 if e_hidp==. & b_hidp!=.			
logit responseW5 eventfqW2_v2 marstatW2 child16W2 ageW2 predict p			
gen weightW25 = (1/p)*b_indscus_xw			
Thank you.			

History

#1 - 06/16/2020 05:50 PM - Alita Nandi

- Private changed from Yes to No
- % Done changed from 0 to 10
- Assignee set to Olena Kaminska
- Status changed from New to In Progress

Hello,

Thank you for your query. We have assigned this issue to our weighting expert who will get back to you.

Best wishes,
Alita

#2 - 06/17/2020 03:49 PM - Olena Kaminska

Karen,

Thank you for your question. A few comments:

- 1) as a base weight you should use a longitudinal weight b_indscus_lw, not cross-sectional weight;
- 2) please exclude those who died and left the country in a meantime - they should not be considered as nonrespondents;
- 3) condition your logit model on non-zero b_indscus_lw;

Hope this helps,
Olena

#3 - 06/17/2020 04:57 PM - Karen Mak

Dear Olena,

Thank you so much for your prompt response. This is really helpful!

May I ask, for point 3, does it mean fitting the model like this: logit responseW25 b_indscus_lw ?

Best wishes,

Karen

#4 - 06/17/2020 05:04 PM - Karen Mak

I am sorry - I meant a model like this: $\text{logit response} = \beta_0 + \beta_1 \text{age} + \beta_2 \text{if } b_{\text{indscus_lw}} > 0 \text{ \& } b_{\text{indscus_lw}} \neq .$?
Would it matter if I included more W2 predictors in the logit model? Are there any specific W2 predictors that need to be included?

With appreciation,
Karen

#5 - 06/18/2020 10:28 AM - Olena Kaminska

Karen,
Yes, I would recommend more predictors. Choose predictors to be related to both nonresponse and your own model of interest. But I would err on higher number of predictors if you are uncertain. Note, predictors need to be from wave 2 and should not have any missing values for non-zero $b_{\text{indscus_lw}}$.

Hope this helps,
Olena

#6 - 06/18/2020 01:58 PM - Karen Mak

Thank you so much for your help Olena! Hugely grateful.

#7 - 06/18/2020 01:58 PM - Karen Mak

Karen Mak wrote:

Thank you so much for your help Olena! Hugely grateful.

#8 - 06/20/2020 02:54 AM - Alita Nandi

- % Done changed from 10 to 90
- Status changed from In Progress to Feedback