

## Understanding Society User Support - Support #1362

### Deriving own weights

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

<b>Status:</b>	Resolved	<b>Start date:</b>	06/16/2020
<b>Priority:</b>	Normal	<b>% Done:</b>	100%
<b>Assignee:</b>			
<b>Category:</b>			
<b>Description</b>			
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

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

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:  $\text{logit response}_{W5} \text{ age}_{W2} \text{ if } b_{\text{indscus\_lw}} > 0 \text{ \& } b_{\text{indscus\_lw}} \neq . ?$   
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**

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

**#9 - 10/13/2021 11:37 AM - Understanding Society User Support Team**

- Status changed from *Feedback* to *Resolved*  
- Assignee deleted (*Olena Kaminska*)  
- % Done changed from 90 to 100