Understanding Society User Support - Support #1362

Deriving own weights

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

Status:	Resolved	**Start date:**	06/16/2020
Priority:	Normal	**% Done:**	100%
Assignee:			
Category:			

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

- 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: logit responseW5 ageW2 if b_indscus_lw>0 & b_indscus_lw!=. ?
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_indscus_lw.

Hope this helps,
Olena

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

Thank you so much for your helo 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