

Appendix 3. Statistical tests for observed differences

The analyses of differences in the observed probabilities include the Holm adjustment of the p-values for 29 hypothesis tests. Since we performed several hypothesis tests, we adjusted the p-values using Holm's method, a modification of Bonferroni's procedure, in SAS Procedure Multtest (Westfall et al. 1999).

Our discussion uses the significance level of 0.10 for the adjusted p-values. For the chi-square tests, both the initial and the adjusted p-values are important because the initial values provided the basis for decisions on whether to proceed with further tests. Since the differences in probabilities for the levels of the variables can be positive or negative, the p-values are two-sided.

Table A3.1. Observed differences in probabilities of reporting a move (*Move*) by *Interview Month* and *Respondent Type* with 2-sided p-values adjusted using the Holm method

	Observed	S.E.	initial p-value	adjusted p-value
Difference between interview months				
June - Sept	0.020	0.019	0.309	1.000
June - Feb	0.132	0.021	<.0001	0.003
Sept - Feb	0.112	0.022	<.0001	0.003
Difference between respondent types				
Self - Family other	-0.095	0.020	<.0001	0.003
Self - Individual proxy	0.082	0.020	<.0001	0.003
Family other - Individual proxy	0.177	0.023	<.0001	0.003

Table A3.2. Observed differences in estimates of probabilities of reported move month agreeing with NCOA move month (*NoBias*) by *Interview Month* and *Respondent type* with 2-sided p-values adjusted using the Holm method

	Observed	S.E.	initial p-value	adjusted p-value
Difference between interview months				
June - Sept	0.034	0.024	0.154	1.000
June - Feb	0.118	0.029	<0.0001	0.003
Sept - Feb	0.085	0.031	0.006	0.084
Difference between respondent types				
Self - Family other	-0.002	0.024	0.921	1.000
Self - Individual proxy	0.105	0.028	<.0001	0.003
Family other - Individual proxy	0.108	0.031	<.0001	0.003

Table A3.3. Observed differences in probabilities of reported Census Day residence agreeing with NCOA Census Day residence (*SameSide*) by *Interview Month* and *Respondent Type* with 2-sided p-values adjusted using the Holm method

	Observed	S.E.	initial p-value	adjusted p-value
Difference between interview months				
June – Sept	-0.004	0.019	0.823	1.000
June – Feb	0.067	0.025	0.008	0.088
Sept – Feb	0.071	0.026	0.006	0.084
Difference between respondent types				
Self - Family other	0.025	0.020	0.223	1.000
Self - Family proxy	0.078	0.024	<.0001	0.003
Family other - Individual proxy	0.054	0.026	0.042	0.378

Table A3.4. Observed conditional probabilities of backward and forward telescoping and their differences by *Interview month* for Self respondents with 2-sided p-values adjusted using the Holm method

Interview month	No. obs.	backward	S.E.	forward	S.E.	difference	S.E.	Initial p-value	Adjusted p-value
Self respondent									
June	361	0.105	0.013	0.105	0.013	0	0.017	1.000	1.000
Sept	304	0.099	0.014	0.112	0.015	-0.013	0.019	0.575	1.000
Feb	185	0.227	0.031	0.141	0.026	0.087	0.035	0.015	0.150