

Chapter 23 Appendix L: Logistic regression model for household participation

This table contains the statistical parameters from a logistic regression model built to model household participation. More details can be found in [Chapter 5 - Weighting](#)

Some shorthand is used in this table: [x] denotes no data present.

Calibration variables	Calibration categories	Beta coefficient (B)	Standard error (S.E)	Wald test statistic	Degrees of freedom (df)	Significance (Sig.)	Odds ratio (Exp(B))
Region	[x]	[x]	[x]	226.314	9	less than 0.001	[x]
Region	North East	[x]	[x]	[x]	[x]	[x]	1
Region	North West	-0.563	0.072	61.106	1	less than 0.001	0.570
Region	Yorkshire & Humberside	-0.200	0.075	7.177	1	0.007	0.819
Region	East Midlands	-0.432	0.078	30.965	1	less than 0.001	0.649
Region	West Midlands	-0.125	0.075	2.828	1	0.093	0.882
Region	Eastern	-0.125	0.074	2.807	1	0.094	0.883
Region	Inner London	-0.154	0.095	2.662	1	0.103	0.857
Region	Outer London	0.016	0.081	0.041	1	0.840	1.016
Region	South East	0.100	0.070	2.016	1	0.156	1.105
Region	South West	0.012	0.075	0.025	1	0.875	1.012
Rural-urban classification	[x]	[x]	[x]	18.099	5	0.003	[x]
Rural-urban classification	1 RSF1 - Smaller Rural: Further from a major town or city	[x]	[x]	[x]	[x]	[x]	1
Rural-urban classification	2 RSN1 - Smaller Rural: Nearer to a major town or city	-0.152	0.097	2.444	1	0.118	0.859
Rural-urban classification	3 RLF1 - Larger Rural: Further from a major town or city	-0.068	0.116	0.349	1	0.555	0.934
Rural-urban classification	4 RLN1 - Large Rural: Nearer to a major town or city	-0.109	0.095	1.309	1	0.253	0.897
Rural-urban classification	5 UF1 - Urban: Further from a major town or city	-0.190	0.096	3.932	1	0.047	0.827
Rural-urban classification	6 UN1 - Urban: Nearer to a major town or city	-0.262	0.084	9.752	1	0.002	0.770
OAC21 Supergroup	[x]	[x]	[x]	205.460	7	less than 0.001	[x]
OAC21 Supergroup	1 Retired Professionals	[x]	[x]	[x]	[x]	[x]	1
OAC21 Supergroup	2 Suburbanites and Peri-Urbanites	-0.222	0.045	24.394	1	less than 0.001	0.801
OAC21 Supergroup	3 Multicultural and Educated Urbanites	-0.911	0.075	147.448	1	less than 0.001	0.402
OAC21 Supergroup	4 Low-Skilled Migrant and Student Communities	-0.633	0.060	110.078	1	less than 0.001	0.531
OAC21 Supergroup	5 Ethnically Diverse Suburb-an Professionals	-0.182	0.056	10.624	1	0.001	0.834
OAC21 Supergroup	6 Baseline UK	-0.426	0.050	72.031	1	less than 0.001	0.653
OAC21 Supergroup	7 Semi- and Un-Skilled Workforce	-0.252	0.056	20.190	1	less than 0.001	0.778
OAC21 Supergroup	8 Legacy Communities	-0.392	0.096	16.720	1	less than 0.001	0.676
Month	[x]	[x]	[x]	114.753	11	less than 0.001	[x]
Month	January	[x]	[x]	[x]	[x]	[x]	1
Month	February	0.039	0.070	0.312	1	0.577	1.040
Month	March	0.145	0.068	4.510	1	0.034	1.157
Month	April	0.259	0.068	14.501	1	less than 0.001	1.296
Month	May	0.376	0.068	30.955	1	less than 0.001	1.457
Month	June	0.335	0.068	24.009	1	less than 0.001	1.398
Month	July	0.406	0.068	35.649	1	less than 0.001	1.501
Month	August	0.243	0.068	12.794	1	less than 0.001	1.276
Month	September	0.490	0.068	51.374	1	less than 0.001	1.633
Month	October	0.386	0.068	32.493	1	less than 0.001	1.472

Calibration variables	Calibration categories	Beta coefficient (B)	Standard error (S.E)	Wald test statistic	Degrees of freedom (df)	Significance (Sig.)	Odds ratio (Exp(B))
Month	November	0.118	0.069	2.944	1	0.086	1.126
Month	December	0.169	0.069	5.987	1	0.014	1.184
Intercept	[x]	0.013	0.112	0.014	1	0.905	1.013