

**THE PROSPECTS FOR LONGER DISTANCE  
DOMESTIC COACH, RAIL, AIR AND CAR TRAVEL IN  
BRITAIN**

**APPENDICES**

Appendix A: Long Distance Travel – NTS Estimates

Figure A.1: Diary and retrospective data: 3-year moving average for 1995 – 2001 shown at median year\*, single year thereafter

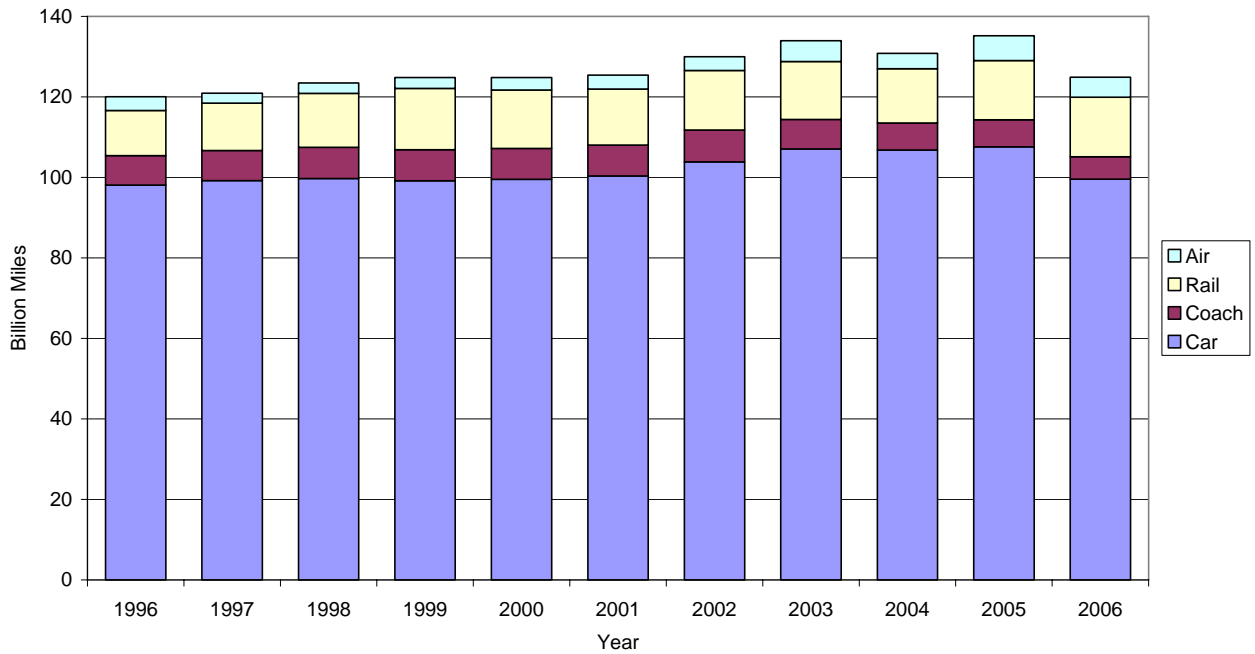
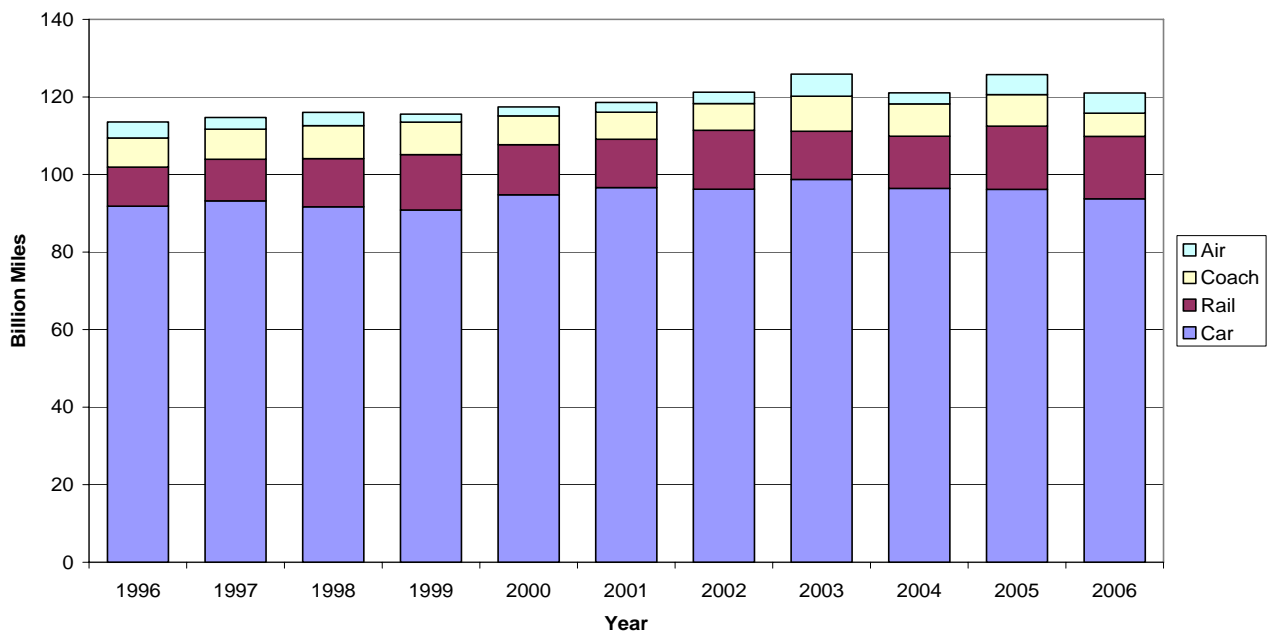


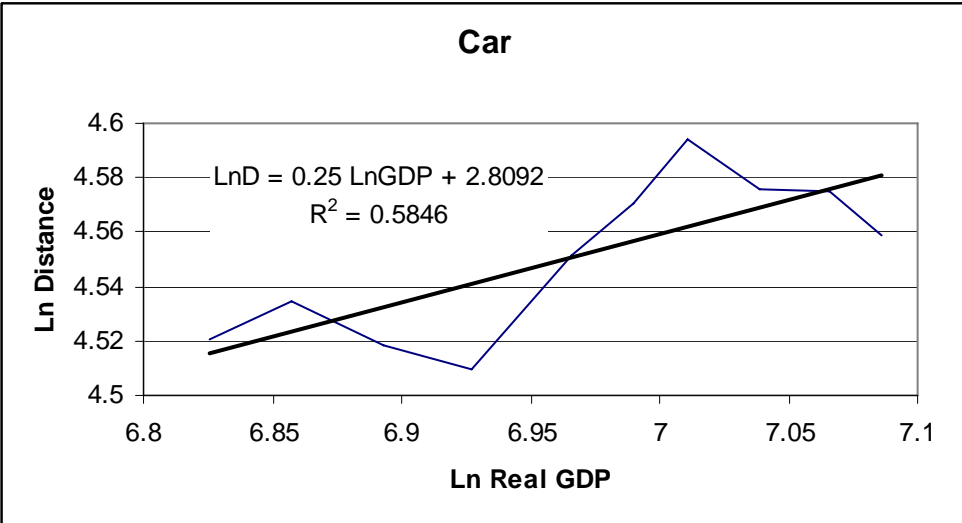
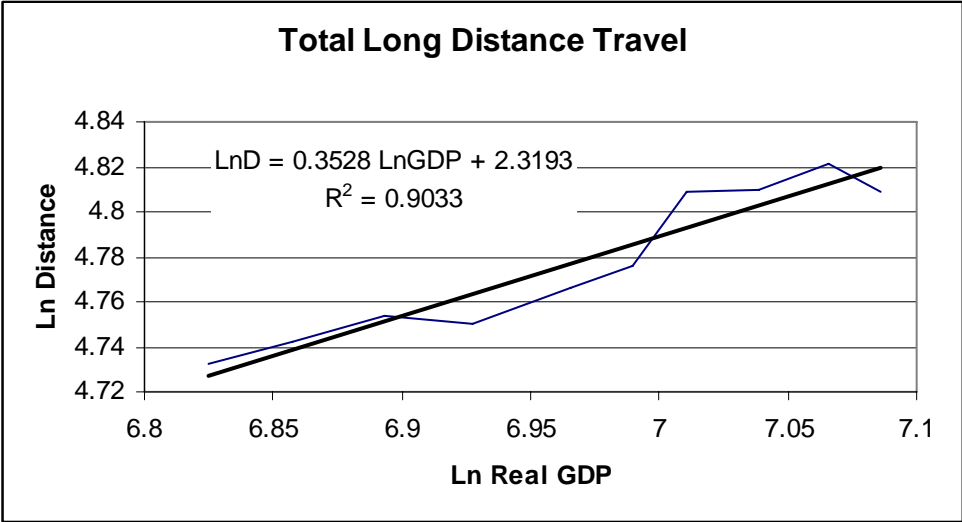
Figure A.2: Diary data only: 3-year moving average for 1995 – 2001 shown at median year\*, single year thereafter\*\*

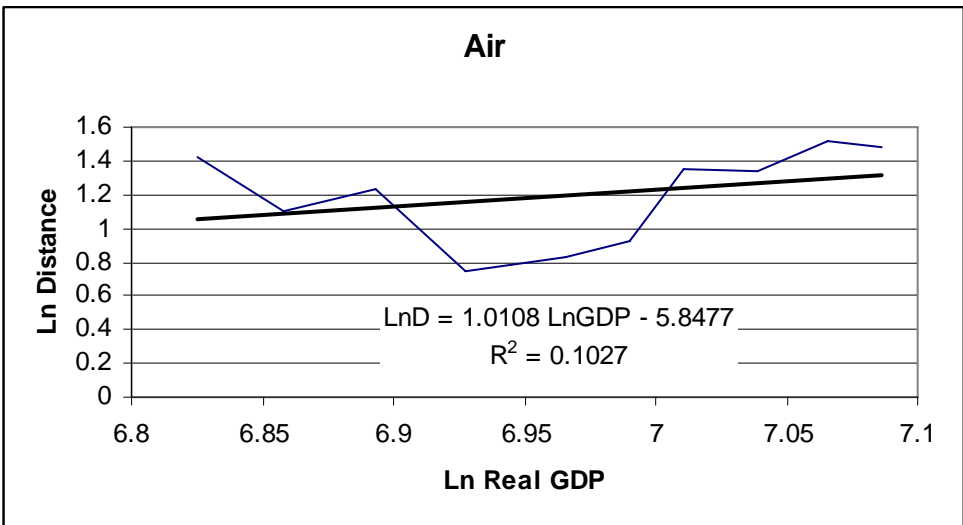
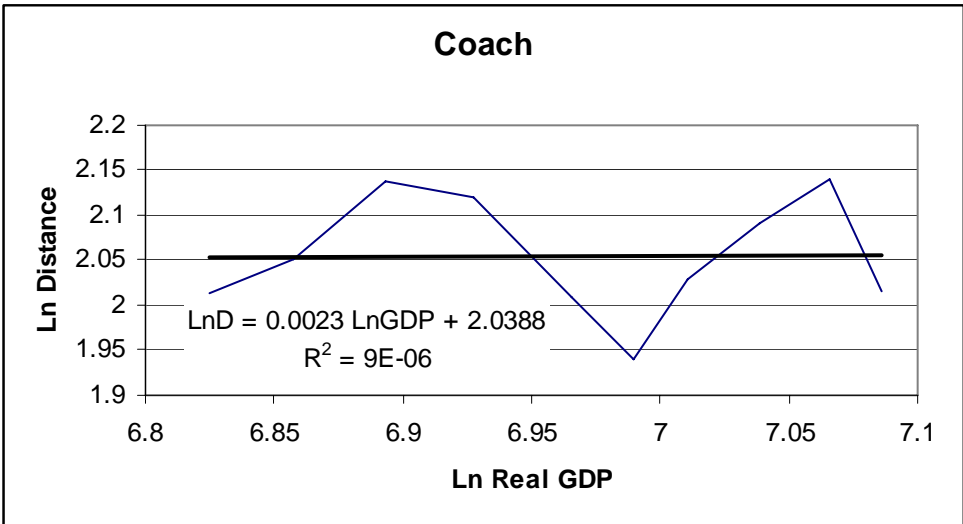
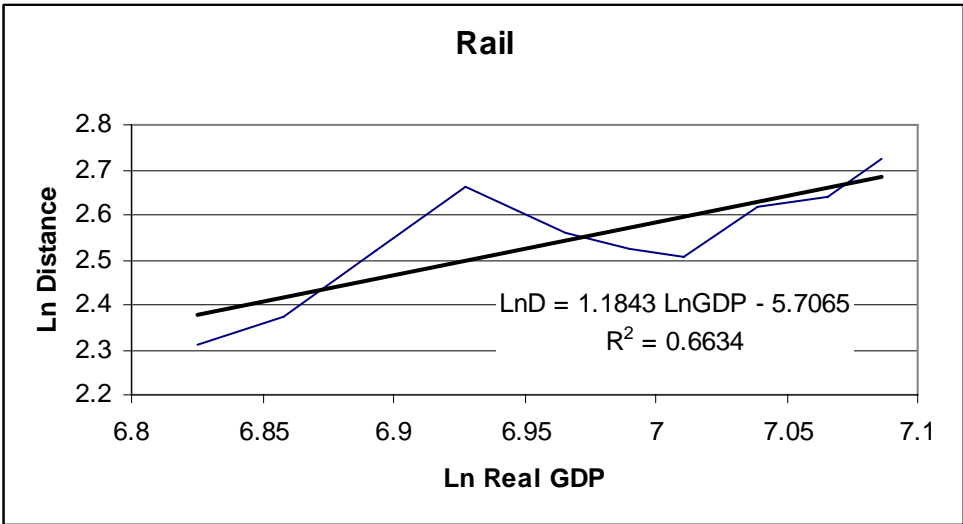


\* 3-year moving averages are used for the years 1996-2001 because of the smaller sample sizes for these years

\*\* These cannot be directly compared with Figure 1 in the main text since 3-year moving averages were used for all years in Figure 1

Appendix B: Estimates of GDP Elasticities from Aggregate NTS Data





## Appendix C: Estimates of NTS Models

**Table C.1: Definitions of variables included in the NTS regression models**

HouseholdIncome	Household annual income – adjusted for inflation using RPI
Time trend	NTS survey year
Female	0=Male; 1=Female
Age059	Aged less than 60
Age60p	Aged 60 or more
Employed	In full or part time employment
Student	Student
NotEmployed	Unemployed/Retired/Sick or looking after the home
CompanyCar	Main driver of a company car
NoCompanyCar	Not main driver of a company car
Length of residence at current address	
Residence0	Under 1 year (moved less than 1 mile)
Residence01	Under 1 year (moved more than 1 mile)
Residence12	1 to under 2 years
Residence23	2 to under 3 years
Residence35	3 to under 5 years
Residence510	5 to under 10 years
Residence10p	10 or more years
ResidenceEver	Always lives at this address
Residence1	Under 1 year (miles not available)
Region of residence	
NorthEast	
NorthWest	
Yorkshire	
EastMidlands	
WestMidlands	
Eastern	
London	
SouthEast	
SouthWest	
Wales	
Scotland	
Population settlement size	
Mets	Metropolitan Area
PopOver250K	Population over 250K
Pop25K250K	Population between 25K and 250K
Pop3K25K	Population between 3K and 35K
Rural	Rural
Adults1	One adult household
Adults2	Two adult household
Adults3p	Three or more adult household
Children0	Household without children
Children1	Household with children
Accommodation type	
Detached	
SemiDetached	
Terrace	
PurposeFlat	
ConvertedFlat	
AccomOther	

**Table C.2: Car, business, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	56.95	0.66	86.39	
HouseholdIncome	0.0001	0.00	9.09	0.34
Female	-3.85	0.19	-20.27	-0.46
Employed	4.75	0.20	23.35	0.53
NoCompanyCar	-55.99	0.60	-93.11	-12.81
Residence12	0.78	0.35	2.22	0.01
NorthEast	-1.25	0.46	-2.71	-0.01
EastMidlands	1.03	0.37	2.81	0.02
London	-1.94	0.30	-6.50	-0.06
Scotland	-1.25	0.34	-3.66	-0.03
Pop3K25K	0.49	0.26	1.91	0.02
Rural	0.92	0.32	2.88	0.02
Adults1	1.09	0.28	3.94	0.04
Adults3p	-0.72	0.23	-3.18	-0.04
Detached	1.17	0.25	4.62	0.07
Terrace	-0.44	0.22	-1.95	-0.03

Dependent Variable: **car\_150\_business\_sum**

**Table C.3: Car, leisure, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	4.85	0.59	8.20	
HouseholdIncome	0.0001	0.00	12.33	0.31
Sex	-1.02	0.15	-6.70	-0.10
Age059	1.23	0.24	5.02	0.19
Employed	0.87	0.18	4.85	0.08
NoCompanyCar	-4.39	0.48	-9.11	-0.82
Residence0	-0.92	0.30	-3.03	-0.01
Residence01	-0.72	0.43	-1.68	0.00
NorthWest	0.62	0.25	2.50	0.01
Yorkshire	1.16	0.28	4.19	0.02
EastMidlands	0.76	0.30	2.50	0.01
WestMidlands	1.01	0.27	3.69	0.02
SouthWest	1.54	0.28	5.46	0.03
PopOver250K	0.65	0.25	2.61	0.02
Pop25K250K	0.66	0.21	3.10	0.04
Pop3K25K	2.15	0.24	8.87	0.08
Rural	2.47	0.29	8.42	0.05
Adults1	-0.40	0.23	-1.79	-0.01
Adults3p	-0.92	0.19	-4.95	-0.05
Children0	1.65	0.18	8.94	0.18
Detached	2.01	0.21	9.56	0.09
Terrace	-0.46	0.19	-2.40	-0.03
PurposeFlat	-1.19	0.29	-4.13	-0.02
ConvertedFlat	-0.97	0.51	-1.91	0.00
AccomOther	-2.66	1.06	-2.51	0.00

Dependent Variable: **car\_150\_leisure\_sum**

**Table C.4: Car, VFR, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	6.13	0.64	9.52	
HouseholdIncome	0.0002	0.00	22.77	0.53
Age059	0.81	0.26	3.16	0.11
Student	1.46	0.47	3.10	0.01
NoCompanyCar	-4.05	0.52	-7.81	-0.66
Residence0	2.77	0.35	7.99	0.03
Residence12	1.98	0.33	6.08	0.03
Residence23	0.94	0.33	2.81	0.01
Residence10p	-0.73	0.22	-3.29	-0.03
ResidenceEver	-1.09	0.27	-4.11	-0.03
NorthEast	-4.00	0.42	-9.59	-0.03
NorthWest	-2.61	0.28	-9.30	-0.05
Yorkshire	-1.64	0.31	-5.24	-0.02
WestMidlands	-1.31	0.31	-4.26	-0.02
London	-2.75	0.31	-8.78	-0.06
Wales	-2.54	0.39	-6.57	-0.02
Scotland	-2.97	0.32	-9.41	-0.04
PopOver250K	-0.44	0.26	-1.71	-0.01
Pop25K250K	-0.45	0.22	-2.06	-0.02
Rural	1.40	0.30	4.68	0.03
Adults1	0.98	0.25	3.98	0.03
Adults3p	-2.55	0.21	-12.12	-0.11
Children0	2.84	0.19	14.67	0.27
Detached	1.97	0.21	9.35	0.08
PurposeFlat	-1.41	0.30	-4.71	-0.02
Dependent Variable: <b>car_150_VFR_sum</b>				

**Table C.5: Car, Holiday, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	2.36	0.35	6.77	
HouseholdIncome	0.0001	0.00	12.28	0.38
Sex	0.19	0.10	1.89	0.04
NoCompanyCar	-1.22	0.31	-3.90	-0.46
Residence12	-0.45	0.19	-2.39	-0.01
Residence23	-0.42	0.19	-2.19	-0.01
NorthWest	0.35	0.16	2.15	0.02
Yorkshire	0.52	0.18	2.86	0.02
EastMidlands	0.90	0.20	4.60	0.03
Eastern	0.46	0.18	2.59	0.02
SouthWest	1.45	0.18	7.87	0.05
Pop25K250K	-0.26	0.12	-2.23	-0.03
Pop3K25K	0.46	0.14	3.39	0.03
Adults1	-0.55	0.15	-3.72	-0.04
Adults3p	-0.91	0.12	-7.54	-0.09
Children0	0.30	0.10	2.90	0.06
Detached	1.27	0.12	10.31	0.12
PurposeFlat	-0.57	0.17	-3.28	-0.02
Dependent Variable: <b>car_150_Holiday_sum</b>				

**Table C.6: Car, Commuting, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	22.30	0.64	35.04	
HouseholdIncome	0.0000	0.00	5.38	0.31
Sex	-2.72	0.18	-14.98	-0.56
Employed	3.15	0.19	16.24	0.61
NoCompanyCar	-20.87	0.57	-36.36	-8.21
Residence10p	-0.90	0.22	-4.19	-0.09
ResidenceEver	-0.82	0.24	-3.41	-0.06
NorthEast	-1.17	0.45	-2.61	-0.02
NorthWest	-0.95	0.30	-3.18	-0.05
Yorkshire	-0.91	0.33	-2.73	-0.03
London	-1.12	0.32	-3.47	-0.06
Wales	-1.94	0.42	-4.60	-0.04
Scotland	-1.58	0.33	-4.72	-0.06
Pop25K250K	0.78	0.24	3.22	0.09
Pop3K25K	1.06	0.28	3.85	0.08
Rural	0.96	0.33	2.87	0.04
Detached	0.42	0.23	1.84	0.04

Dependent Variable: **car\_150\_Commuting\_sum**

**Table C.7: Car, Business, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	23.31	0.51	45.55	
HouseholdIncome	0.0001	0.00	7.65	0.54
Sex	-1.60	0.14	-11.03	-0.47
Employed	1.79	0.16	11.54	0.49
NoCompanyCar	-24.10	0.46	-52.58	-13.53
Residence0	0.87	0.29	3.06	0.03
Residence23	-0.58	0.28	-2.09	-0.02
NorthEast	2.05	0.36	5.72	0.05
NorthWest	1.13	0.24	4.79	0.08
Yorkshire	0.95	0.27	3.55	0.05
WestMidlands	0.55	0.26	2.09	0.03
SouthWest	1.24	0.27	4.54	0.06
Wales	1.46	0.34	4.28	0.04
Scotland	0.63	0.27	2.31	0.03
Pop25K250K	0.43	0.18	2.39	0.07
Pop3K25K	0.50	0.21	2.34	0.05
Rural	0.54	0.26	2.11	0.03
Adults1	0.41	0.21	1.96	0.04
Adults3p	-1.01	0.17	-5.84	-0.15
Detached	0.96	0.18	5.27	0.13

Dependent Variable: **car\_150plus\_business\_sum**



**Table C.8: Car, Leisure, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.87	0.39	2.23	
HouseholdIncome	0.0000	0.00	6.64	0.47
Sex	-0.41	0.10	-3.88	-0.17
Age059	0.49	0.17	2.98	0.33
Employed	0.51	0.12	4.16	0.20
NoCompanyCar	-1.43	0.33	-4.29	-1.15
Residence0	0.49	0.21	2.34	0.03
Residence35	0.54	0.17	3.24	0.05
NorthWest	0.40	0.16	2.41	0.04
WestMidlands	0.36	0.18	1.96	0.03
SouthWest	0.76	0.19	3.99	0.05
Pop25K250K	0.25	0.12	2.02	0.06
Pop3K25K	0.40	0.14	2.82	0.06
Children0	0.51	0.13	4.09	0.24
Detached	0.71	0.14	5.15	0.14
Terrace	-0.31	0.12	-2.45	-0.07
ConvertedFlat	-0.78	0.34	-2.27	-0.02

Dependent Variable: **car\_150plus\_leisure\_sum****Table C.9: Car, VFR, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.78	0.65	1.21	
HouseholdIncome	0.0001	0.00	14.62	0.70
Age059	0.83	0.28	2.95	0.22
Employed	0.37	0.20	1.86	0.06
NoCompanyCar	-1.74	0.53	-3.27	-0.56
Residence0	1.86	0.35	5.37	0.04
Residence12	1.28	0.33	3.92	0.03
Residence10p	-0.79	0.22	-3.63	-0.07
ResidenceEver	-1.35	0.26	-5.17	-0.09
Yorkshire	0.65	0.31	2.12	0.02
EastMidlands	-1.36	0.33	-4.13	-0.03
London	-0.81	0.29	-2.80	-0.03
SouthWest	0.87	0.31	2.78	0.02
Scotland	-1.14	0.31	-3.69	-0.03
Pop25K250K	0.71	0.22	3.20	0.07
Pop3K25K	1.14	0.25	4.47	0.07
Rural	0.61	0.31	1.99	0.02
Adults1	0.87	0.25	3.50	0.05
Adults3p	-1.28	0.21	-6.09	-0.11
Children0	1.28	0.21	6.16	0.24
Detached	0.75	0.23	3.32	0.06
Terrace	0.66	0.20	3.32	0.06

Dependent Variable: **car\_150plus\_VFR\_sum**

**Table C.10: Car, Holiday, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.03	0.36	0.08	
HouseholdIncome	0.0001	0.00	14.71	0.61
Quota allocation year	0.05	0.03	1.93	0.15
Employed	0.50	0.19	2.67	0.07
Residence0	1.69	0.35	4.78	0.03
Residence35	0.56	0.28	1.98	0.02
Residence10p	0.46	0.21	2.18	0.03
NorthWest	0.62	0.29	2.15	0.02
Yorkshire	0.88	0.32	2.72	0.02
EastMidlands	1.35	0.35	3.88	0.03
WestMidlands	1.68	0.32	5.30	0.05
SouthWest	0.93	0.33	2.82	0.02
Scotland	1.33	0.33	4.05	0.03
Pop3K25K	0.59	0.24	2.46	0.03
Rural	0.80	0.30	2.67	0.02
Adults3p	-1.54	0.21	-7.39	-0.12
Detached	0.57	0.24	2.41	0.04
Terrace	-0.47	0.22	-2.15	-0.04
PurposeFlat	-1.48	0.32	-4.61	-0.04
AccomOther	2.96	1.22	2.43	0.00

Dependent Variable: **car\_150plus\_Holiday\_sum**

**Table C.11: Car, Commuting, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	3.00	0.29	10.38	
HouseholdIncome	0.0000	0.00	2.76	0.50
Quota allocation year	-0.05	0.01	-4.43	-1.47
I3 - Sex	-0.32	0.08	-4.20	-0.48
Employed	0.45	0.08	5.65	0.64
NoCompanyCar	-2.88	0.24	-12.16	-8.36
Residence10p	-0.21	0.09	-2.45	-0.16
NorthEast	0.44	0.18	2.38	0.06
NorthWest	0.41	0.12	3.42	0.15
Yorkshire	0.32	0.14	2.35	0.08
WestMidlands	0.69	0.13	5.20	0.19
SouthWest	0.31	0.14	2.22	0.08
PopOver250K	0.24	0.12	1.99	0.11
Pop25K250K	0.39	0.10	3.82	0.32
Pop3K25K	0.27	0.12	2.32	0.15
Rural	0.32	0.14	2.32	0.10
Adults1	0.21	0.11	1.95	0.10
ConvertedFlat	0.85	0.24	3.51	0.06

Dependent Variable: **car\_150plus\_Commuting\_sum**

**Table C.12: Rail, Business, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.48	0.21	6.93	
HouseholdIncome	0.00004	0.00	14.51	1.39
Quota allocation year	0.02	0.01	2.73	0.46
Sex	-0.34	0.06	-6.12	-0.35
Employed	0.53	0.06	8.80	0.52
NoCompanyCar	-1.99	0.18	-11.37	-3.93
Residence23	0.32	0.11	2.95	0.05
Residence10p	-0.17	0.07	-2.48	-0.09
ResidenceEver	-0.31	0.08	-3.80	-0.12
NorthEast	-0.21	0.14	-1.52	-0.02
NorthWest	-0.41	0.09	-4.35	-0.10
Yorkshire	-0.30	0.11	-2.87	-0.05
EastMidlands	0.47	0.11	4.16	0.07
WestMidlands	-0.15	0.10	-1.43	-0.03
London	-0.26	0.09	-2.79	-0.07
Wales	-0.46	0.13	-3.47	-0.05
Scotland	-0.39	0.10	-3.70	-0.07
Rural	0.24	0.09	2.65	0.05
Adults1	0.42	0.08	5.16	0.14
Adults3p	-0.31	0.07	-4.59	-0.16
Children0	0.19	0.06	3.13	0.22
Detached	0.16	0.07	2.24	0.08
Terrace	0.11	0.07	1.73	0.06

Dependent Variable: rail\_150\_business\_sum

**Table C.13: Rail, Leisure, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.12	0.10	1.23	
HouseholdIncome	0.00002	0.00	6.51	0.50
Sex	0.08	0.05	1.77	0.08
Age059	0.19	0.07	2.71	0.30
Student	0.67	0.13	5.14	0.05
NorthEast	-0.60	0.12	-4.97	-0.05
NorthWest	-0.61	0.08	-7.26	-0.15
Yorkshire	-0.52	0.09	-5.56	-0.09
EastMidlands	-0.24	0.10	-2.41	-0.04
WestMidlands	-0.48	0.09	-5.31	-0.09
London	-0.47	0.09	-5.44	-0.12
SouthWest	-0.23	0.09	-2.46	-0.04
Wales	-0.53	0.11	-4.60	-0.05
Scotland	-0.55	0.09	-5.82	-0.10
PopOver250K	-0.19	0.07	-2.90	-0.06
Children0	0.37	0.05	7.06	0.42
Detached	0.20	0.06	3.10	0.10
Terrace	0.10	0.06	1.65	0.06
PurposeFlat	0.18	0.09	1.99	0.04
ConvertedFlat	0.35	0.16	2.22	0.02

Dependent Variable: rail\_150\_leisure\_sum

**Table C.14: Rail, VFR, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.59	0.18	-3.38	
HouseholdIncome	0.00001	0.00	3.50	0.25
Quota allocation year	0.03	0.01	3.55	0.48
Student	1.73	0.13	12.98	0.11
NoCompanyCar	0.36	0.15	2.46	0.68
Residence0	0.76	0.10	7.91	0.10
Residence01	0.59	0.13	4.43	0.04
Residence10p	-0.27	0.06	-4.57	-0.13
ResidenceEver	-0.37	0.07	-5.25	-0.13
NorthEast	-0.41	0.12	-3.55	-0.04
NorthWest	-0.28	0.08	-3.58	-0.06
Yorkshire	-0.15	0.09	-1.67	-0.02
WestMidlands	-0.16	0.08	-1.91	-0.03
London	0.26	0.08	3.47	0.07
Wales	-0.38	0.11	-3.51	-0.04
Scotland	-0.28	0.09	-3.25	-0.05
Adults1	0.25	0.07	3.62	0.08
Adults3p	0.24	0.06	4.05	0.12
Children0	0.54	0.05	10.64	0.59
Terrace	0.13	0.05	2.54	0.07
ConvertedFlat	1.14	0.15	7.39	0.05
AccomOther	0.75	0.32	2.30	0.01

Dependent Variable: rail\_150\_VFR\_sum

**Table C.15: Rail, Holiday, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.33	0.06	-5.83	
HouseholdIncome	0.00001	0.00	5.81	0.64
Quota allocation year	0.01	0.00	3.39	0.67
Employed	0.08	0.03	2.52	0.18
Student	0.56	0.08	6.61	0.08
Residence0	0.44	0.06	7.47	0.14
Residence01	0.31	0.08	3.68	0.05
Yorkshire	0.12	0.05	2.20	0.05
EastMidlands	0.18	0.06	3.22	0.06
Eastern	0.11	0.05	2.06	0.05
London	0.25	0.05	5.27	0.15
Pop25K250K	-0.10	0.03	-2.80	-0.12
Adults1	0.12	0.04	2.83	0.09
Children0	0.15	0.03	5.06	0.39
PurposeFlat	0.14	0.05	2.62	0.06
ConvertedFlat	0.23	0.10	2.33	0.03

Dependent Variable: rail\_150\_Holiday\_sum

**Table C.16: Rail, Commuting, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.33	0.38	3.49	
HouseholdIncome	0.0001	0.00	11.02	1.34
Sex	-0.56	0.10	-5.44	-0.40
Employed	0.98	0.11	8.64	0.64
NoCompanyCar	-0.58	0.33	-1.78	-0.78
Residence0	0.37	0.20	1.79	0.03
Residence23	0.41	0.20	2.04	0.04
NorthEast	-1.68	0.27	-6.22	-0.10
NorthWest	-1.79	0.19	-9.55	-0.29
Yorkshire	-1.77	0.21	-8.52	-0.21
EastMidlands	-1.11	0.22	-5.09	-0.11
WestMidlands	-1.67	0.20	-8.22	-0.21
London	-2.11	0.20	-10.62	-0.37
SouthWest	-1.25	0.21	-6.05	-0.15
Wales	-1.84	0.25	-7.28	-0.13
Scotland	-1.79	0.21	-8.65	-0.22
PopOver250K	-0.57	0.16	-3.63	-0.12
Pop25K250K	-0.22	0.13	-1.72	-0.08
Adults1	0.55	0.15	3.65	0.13
Adults3p	-0.40	0.12	-3.18	-0.14
Children0	0.27	0.11	2.48	0.20
Detached	0.32	0.13	2.43	0.10

Dependent Variable: rail\_150\_Commuting\_sum

**Table C.17: Rail, Business, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.59	0.27	5.96	
HouseholdIncome	0.00005	0.00	11.81	1.51
Sex	-0.20	0.07	-2.64	-0.20
Employed	0.53	0.08	6.49	0.51
NoCompanyCar	-2.46	0.24	-10.36	-4.84
Residence23	0.25	0.14	1.76	0.04
Residence35	0.62	0.12	5.17	0.14
NorthEast	0.53	0.18	2.93	0.05
NorthWest	0.48	0.12	4.11	0.12
Yorkshire	0.65	0.13	4.81	0.11
SouthWest	0.24	0.14	1.78	0.04
PopOver250K	-0.18	0.11	-1.74	-0.06
Pop25K250K	-0.25	0.09	-2.91	-0.14
Adults1	0.30	0.11	2.68	0.10
Adults3p	-0.36	0.09	-3.97	-0.19
Children0	0.25	0.08	3.24	0.29
Detached	0.28	0.10	2.83	0.14
Terrace	0.18	0.09	1.90	0.10
PurposeFlat	0.27	0.14	1.98	0.06

Dependent Variable: rail\_150plus\_business\_sum

**Table C.18: Rail, Leisure, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.07	0.08	-0.95	
HouseholdIncome	0.00001	0.00	2.47	0.43
Sex	-0.15	0.05	-2.85	-0.31
Employed	0.15	0.06	2.54	0.29
Student	0.43	0.15	2.96	0.06
Residence0	-0.20	0.10	-1.91	-0.06
ResidenceEver	-0.18	0.07	-2.51	-0.14
NorthEast	0.29	0.13	2.28	0.05
NorthWest	0.22	0.08	2.64	0.11
Yorkshire	0.33	0.09	3.46	0.12
London	0.27	0.08	3.24	0.14
SouthWest	0.42	0.10	4.42	0.15
Scotland	0.31	0.10	3.23	0.11
Pop3K25K	-0.15	0.07	-2.23	-0.12
Adults1	0.29	0.07	3.88	0.20
Children0	0.16	0.06	2.85	0.37
Terrace	-0.11	0.06	-1.87	-0.13
AccomOther	0.99	0.36	2.77	0.02

Dependent Variable: rail\_150plus\_leisure\_sum

**Table C.19: Rail, VFR, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-1.33	0.20	-6.65	
HouseholdIncome	0.00002	0.00	3.94	0.42
Quota allocation year	0.05	0.01	3.91	0.77
Age059	0.34	0.13	2.66	0.42
Student	2.32	0.24	9.79	0.12
Residence0	1.23	0.17	7.22	0.13
Residence01	1.22	0.24	5.08	0.06
Residence23	0.74	0.16	4.52	0.08
ResidenceEver	-0.27	0.12	-2.25	-0.08
NorthEast	0.99	0.21	4.75	0.07
NorthWest	0.35	0.14	2.56	0.06
Yorkshire	0.42	0.15	2.73	0.06
London	0.57	0.14	4.02	0.11
Scotland	0.56	0.15	3.60	0.08
Pop25K250K	-0.27	0.10	-2.57	-0.12
Pop3K25K	-0.31	0.12	-2.57	-0.09
Adults1	0.33	0.12	2.68	0.09
Children0	0.85	0.10	8.68	0.74
Terrace	0.26	0.10	2.72	0.12
ConvertedFlat	1.09	0.28	3.90	0.04

Dependent Variable: rail\_150plus\_VFR\_sum

**Table C.20: Rail, Holiday, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.13	0.14	0.87	
HouseholdIncome	0.00002	0.00	4.69	0.56
Age059	-0.33	0.12	-2.78	-0.52
Employed	0.16	0.09	1.87	0.15
Student	0.68	0.21	3.24	0.04
Residence0	0.43	0.15	2.97	0.06
Residence01	-0.48	0.21	-2.36	-0.03
Residence23	0.41	0.14	2.94	0.06
ResidenceEver	-0.37	0.10	-3.63	-0.14
NorthEast	0.49	0.18	2.76	0.04
NorthWest	0.39	0.12	3.41	0.09
EastMidlands	0.32	0.14	2.27	0.05
WestMidlands	-0.24	0.13	-1.87	-0.04
Scotland	0.45	0.13	3.42	0.08
PopOver250K	-0.25	0.11	-2.27	-0.08
Pop25K250K	-0.33	0.09	-3.60	-0.18
Pop3K25K	-0.28	0.11	-2.64	-0.10
Adults1	0.17	0.11	1.64	0.06
Children0	0.42	0.09	4.67	0.46
Detached	0.21	0.09	2.30	0.10
PurposeFlat	0.32	0.13	2.49	0.06
ConvertedFlat	0.56	0.24	2.36	0.03

Dependent Variable: rail\_150plus\_Holiday\_sum

**Table C.21: Rail, Commuting, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.03	0.05	0.53	
HouseholdIncome	0.00001	0.00	4.96	1.57
Quota allocation year	-0.02	0.00	-4.13	-2.42
Sex	-0.07	0.03	-2.65	-0.54
Employed	0.07	0.03	2.66	0.55
NorthEast	0.39	0.06	6.24	0.27
NorthWest	0.12	0.04	2.92	0.22
Yorkshire	0.11	0.05	2.30	0.14
SouthWest	0.10	0.05	2.09	0.13
Children0	0.05	0.03	1.79	0.41
Detached	0.07	0.03	2.33	0.27

Dependent Variable: rail\_150plus\_Commuting\_sum

**Table C.22: Coach, Business, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.07	0.03	-2.35	
Sex	-0.03	0.02	-2.04	-0.32
Age059	0.05	0.03	2.14	0.80
Employed	0.09	0.02	4.58	0.75
Residence12	0.08	0.03	2.68	0.12
Adults1	0.08	0.02	3.70	0.26
Children0	0.04	0.02	2.06	0.41
Detached	0.05	0.02	2.43	0.21

Dependent Variable: **coach\_150\_business\_sum**

**Table C.23: Coach, Leisure, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.18	0.12	9.63	
Quota allocation year	-0.02	0.01	-2.33	-0.30
Age059	-0.76	0.08	-9.39	-0.92
Employed	-0.16	0.06	-2.71	-0.12
Residence01	0.25	0.16	1.59	0.01
Residence10p	0.16	0.07	2.31	0.06
ResidenceEver	0.17	0.08	2.02	0.05
EastMidlands	0.27	0.11	2.52	0.03
WestMidlands	0.18	0.10	1.86	0.03
Eastern	0.30	0.10	3.07	0.04
SouthWest	0.41	0.10	4.00	0.05
Pop25K250K	0.15	0.07	2.25	0.06
Pop3K25K	0.18	0.08	2.39	0.05
Adults1	0.26	0.08	3.39	0.07
Detached	0.26	0.07	3.86	0.09

Dependent Variable: **coach\_150\_leisure\_sum**

**Table C.24: Coach, VFR, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.06	0.03	-2.26	
Student	0.33	0.08	4.30	0.07
Residence0	0.19	0.05	3.53	0.08
Residence23	0.13	0.05	2.44	0.06
Yorkshire	-0.08	0.05	-1.70	-0.04
EastMidlands	0.10	0.05	1.97	0.05
WestMidlands	0.22	0.05	4.64	0.13
SouthWest	0.13	0.05	2.74	0.07
PopOver250K	0.14	0.04	3.85	0.14
Adults3p	0.09	0.03	2.95	0.15
Children0	0.12	0.03	4.51	0.43
Terrace	0.08	0.03	2.74	0.15
PurposeFlat	0.11	0.05	2.35	0.07
ConvertedFlat	0.25	0.09	2.82	0.04

Dependent Variable: **coach\_150\_VFR\_sum**



**Table C.25: Coach, Holiday, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.38	0.04	9.91	
Age059	-0.21	0.04	-5.33	-0.66
Student	0.20	0.08	2.32	0.03
ResidenceEver	0.10	0.04	2.47	0.08
EastMidlands	0.10	0.06	1.75	0.03
Wales	0.14	0.07	2.10	0.03

Dependent Variable: **coach\_150\_Holiday\_sum**

**Table C.26: Coach, Commuting, <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.03	0.03	0.85	
Sex	-0.11	0.03	-3.32	-0.91
Employed	0.13	0.03	3.89	1.01
Pop25K250K	0.07	0.04	1.96	0.32
Adults3p	-0.10	0.04	-2.59	-0.41
Terrace	0.10	0.04	2.67	0.45
ConvertedFlat	0.20	0.11	1.80	0.08

Dependent Variable: **coach\_150\_Commuting\_sum**

**Table C.27: Coach, Business, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.02	0.03	0.96	
Sex	-0.05	0.02	-2.50	-0.57
Employed	0.11	0.02	4.72	1.03
Residence12	-0.07	0.04	-1.70	-0.11
Residence10p	-0.04	0.03	-1.64	-0.23
ResidenceEver	-0.05	0.03	-1.75	-0.20
Yorkshire	0.10	0.04	2.51	0.17
WestMidlands	0.08	0.04	1.98	0.14
Pop25K250K	0.06	0.02	2.36	0.33
Adults1	0.07	0.03	2.14	0.22
Adults3p	-0.05	0.03	-1.91	-0.27

Dependent Variable: **coach\_150plus\_business\_sum**

**Table C.28: Coach, Leisure, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.10	0.07	-1.30	
HouseholdIncome	0.000005	0.00	2.06	0.28
Sex	0.11	0.05	2.05	0.20
Student	0.55	0.15	3.81	0.07
Residence0	-0.23	0.10	-2.17	-0.06
Residence35	-0.15	0.08	-1.78	-0.06
WestMidlands	0.26	0.09	2.88	0.09
Eastern	-0.20	0.09	-2.13	-0.07
SouthWest	0.68	0.09	7.16	0.21
Pop25K250K	0.13	0.06	2.17	0.13
Rural	0.22	0.09	2.52	0.09
Children0	0.17	0.05	3.19	0.34
Terrace	0.11	0.06	1.89	0.11
AccomOther	0.64	0.36	1.77	0.01

Dependent Variable: **coach\_150plus\_leisure\_sum**

**Table C.29: Coach, VFR, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.23	0.05	4.64	
HouseholdIncome	0.000003	0.00	1.44	0.31
Employed	-0.07	0.04	-1.91	-0.25
London	-0.18	0.06	-2.83	-0.16
PopOver250K	-0.12	0.06	-2.10	-0.13
Pop25K250K	-0.13	0.05	-2.65	-0.26
Pop3K25K	-0.14	0.06	-2.47	-0.18
Adults1	0.22	0.05	4.13	0.26
Detached	-0.11	0.05	-2.37	-0.18

Dependent Variable: **coach\_150plus\_VFR\_sum**

**Table C.30: Coach, Holiday, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.95	0.16	5.90	
Age059	-1.06	0.12	-8.49	-1.17
Student	0.43	0.24	1.78	0.02
Residence12	0.34	0.17	2.04	0.04
Residence10p	0.22	0.11	2.02	0.08
ResidenceEver	0.40	0.13	3.08	0.11
NorthEast	0.89	0.21	4.16	0.05
NorthWest	0.59	0.14	4.23	0.10
Yorkshire	0.91	0.16	5.79	0.11
EastMidlands	0.60	0.17	3.55	0.06
Wales	0.75	0.20	3.75	0.05
Pop25K250K	0.20	0.11	1.89	0.08
Pop3K25K	0.28	0.12	2.32	0.07
Rural	-0.38	0.15	-2.53	-0.06
Children0	0.18	0.10	1.81	0.14

Dependent Variable: **coach\_150plus\_Holiday\_sum**

**Table C.31: Coach, Commuting, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.00	0.00	0.38	
Employed	0.01	0.00	1.82	1.19
Residence01	0.06	0.01	4.92	0.61
Yorkshire	0.02	0.01	2.81	0.60
London	-0.02	0.01	-2.27	-0.70
PopOver250K	-0.01	0.01	-1.87	-0.64
Pop25K250K	-0.01	0.01	-1.99	-1.04
Pop3K25K	-0.01	0.01	-1.79	-0.70
PurposeFlat	0.03	0.01	4.58	1.08

Dependent Variable: **coach\_150plus\_Commuting\_sum**

**Table C.32: Air, Business, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	5.09	0.44	11.62	
HouseholdIncome	0.00007	0.00	10.44	1.53
Sex	-0.61	0.13	-4.86	-0.44
Employed	0.67	0.14	4.89	0.45
NoCompanyCar	-5.69	0.40	-14.34	-7.76
Residence12	-0.54	0.24	-2.26	-0.06
Residence35	-0.48	0.20	-2.39	-0.08
ResidenceEver	-0.39	0.17	-2.24	-0.10
London	0.61	0.20	3.07	0.11
Scotland	3.23	0.23	14.19	0.40
Pop3K25K	-0.30	0.16	-1.80	-0.08
Adults1	0.42	0.19	2.26	0.10
Adults3p	-0.71	0.15	-4.71	-0.26
Children0	0.29	0.14	2.12	0.23
Terrace	-0.27	0.14	-1.89	-0.11
PurposeFlat	-0.64	0.23	-2.74	-0.09
AccomOther	4.49	0.87	5.15	0.03

Dependent Variable: **air\_150plus\_business\_sum**

**Table C.33: Air, Leisure, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.20	0.05	-4.02	
HouseholdIncome	0.00001	0.00	3.52	1.26
Employed	0.11	0.04	2.60	0.56
Residence01	0.29	0.12	2.50	0.10
NorthEast	0.19	0.10	1.92	0.09
London	0.09	0.06	1.47	0.12
Scotland	0.46	0.07	6.25	0.41
Adults1	0.10	0.06	1.61	0.17
Adults3p	-0.09	0.05	-1.79	-0.23
Detached	0.12	0.05	2.30	0.31
Terrace	0.10	0.05	2.04	0.29

Dependent Variable: **air\_150plus\_leisure\_sum**

**Table C.34: Air, VFR, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.17	0.06	-3.01	
HouseholdIncome	0.00001	0.00	5.66	1.63
NorthEast	0.52	0.12	4.21	0.16
Scotland	0.49	0.09	5.36	0.31
Pop3K25K	-0.13	0.07	-2.01	-0.18
Adults1	0.15	0.07	2.00	0.18
Adults3p	-0.15	0.06	-2.45	-0.27
Detached	0.21	0.06	3.42	0.36

Dependent Variable: **air\_150plus\_VFR\_sum**

**Table C.35: Air, Holiday, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	-0.16	0.25	-0.64	
HouseholdIncome	0.00002	0.00	7.47	1.31
Quota allocation year	0.03	0.01	3.34	1.15
NoCompanyCar	-0.67	0.22	-3.09	-2.21
Residence01	0.45	0.20	2.28	0.05
Residence23	0.27	0.13	2.02	0.07
Scotland	1.39	0.12	11.42	0.41
PopOver250K	0.31	0.10	3.13	0.16
Pop25K250K	0.18	0.08	2.20	0.16
Adults3p	-0.36	0.08	-4.38	-0.31
Children0	0.26	0.07	3.74	0.49
Terrace	0.16	0.08	2.08	0.15
ConvertedFlat	1.30	0.22	5.82	0.11

Dependent Variable: **air\_150plus\_Holiday\_sum**

**Table C.36: Air, Commuting, 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	0.25	0.10	2.45	
Employed	0.10	0.03	3.13	0.95
NoCompanyCar	-0.27	0.10	-2.75	-5.26
Residence12	0.12	0.06	2.05	0.18
Scotland	0.30	0.05	5.60	0.54
Children0	-0.08	0.03	-2.62	-0.92
Detached	0.10	0.04	2.80	0.49

Dependent Variable: **air\_150plus\_Commuting\_sum**

**Table C.37: All long distance travel**

	Coefficient	Std. Error	t	Elasticity
(Constant)	133.34	2.41	55.3	
HouseholdIncome	0.0013	0.00	38.8	0.51
I3 - Sex	-12.07	0.61	-19.7	-0.15
Age059	1.91	1.03	1.9	0.04
Employed	16.79	0.75	22.4	0.20
Student	14.63	1.81	8.1	0.01
NoCompanyCar	-127.86	1.94	-66.0	-3.06
Residence0	10.50	1.33	7.9	0.02
Residence12	4.21	1.26	3.3	0.01
Residence23	3.39	1.29	2.6	0.01
Residence35	2.08	1.10	1.9	0.01
Residence10p	-3.29	0.90	-3.7	-0.02
ResidenceEver	-6.34	1.04	-6.1	-0.03
NorthEast	-3.04	1.51	-2.0	0.00
NorthWest	-2.18	1.00	-2.2	-0.01
EastMidlands	2.76	1.20	2.3	0.00
London	-8.99	1.08	-8.3	-0.03
SouthWest	8.52	1.13	7.5	0.02
Wales	-4.38	1.42	-3.1	-0.01
Pop25K250K	1.87	0.81	2.3	0.01
Pop3K25K	5.58	0.92	6.1	0.03
Rural	8.68	1.13	7.7	0.02
Adults1	7.77	0.91	8.5	0.03
Adults3p	-11.13	0.78	-14.3	-0.07
Children0	11.50	0.77	15.0	0.16
Detached	11.40	0.84	13.6	0.07
Terrace	-1.93	0.76	-2.5	-0.01
PurposeFlat	-7.73	1.15	-6.7	-0.02

Dependent Variable: **realdistW5xHH\_sum**

**Table C.38: All Car**

	Coefficient	Std. Error	t	Elasticity
(Constant)	123.74	2.04	60.5	
HouseholdIncome	0.0009	0.00	32.1	0.46
I3 - Sex	-10.05	0.52	-19.4	-0.16
Age059	3.08	0.87	3.5	0.08
Employed	13.07	0.63	20.6	0.20
Student	4.05	1.53	2.6	0.00
NoCompanyCar	-118.53	1.64	-72.2	-3.65
Residence0	7.48	1.10	6.8	0.02
Residence12	4.27	1.03	4.1	0.01
Residence35	2.08	0.89	2.3	0.01
Residence10p	-2.71	0.72	-3.8	-0.02
ResidenceEver	-4.58	0.85	-5.4	-0.03
NorthEast	-3.93	1.30	-3.0	-0.01
Yorkshire	1.70	0.98	1.7	0.00
EastMidlands	2.98	1.04	2.9	0.01
WestMidlands	2.98	0.96	3.1	0.01
London	-7.43	0.96	-7.8	-0.03
SouthWest	7.64	0.99	7.7	0.02
Wales	-3.02	1.23	-2.5	0.00
Scotland	-5.06	1.00	-5.1	-0.01
Pop25K250K	2.50	0.69	3.6	0.02
Pop3K25K	7.07	0.79	8.9	0.04
Rural	8.31	0.96	8.7	0.03
Adults1	3.20	0.77	4.1	0.02
Adults3p	-8.86	0.66	-13.4	-0.07
Children0	6.98	0.65	10.7	0.12
Detached	9.85	0.72	13.8	0.07
Terrace	-2.10	0.66	-3.2	-0.02
PurposeFlat	-6.86	1.01	-6.8	-0.02
ConvertedFlat	-3.45	1.75	-2.0	0.00

Dependent Variable: **car\_sum**

**Table C.39: All Rail**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.30	0.86	1.5	
HouseholdIncome	0.0002	0.00	20.2	0.83
Quota allocation year	0.11	0.03	3.4	0.24
I3 - Sex	-1.05	0.22	-4.9	-0.12
Employed	2.84	0.24	11.8	0.30
Student	7.57	0.63	12.1	0.06
NoCompanyCar	-3.84	0.68	-5.6	-0.83
Residence0	2.83	0.46	6.2	0.04
Residence01	1.50	0.63	2.4	0.01
Residence23	2.17	0.44	4.9	0.04
Residence35	0.75	0.38	2.0	0.02
Residence10p	-0.64	0.30	-2.1	-0.04
ResidenceEver	-2.00	0.35	-5.7	-0.08
NorthWest	-1.39	0.36	-3.8	-0.04
Yorkshire	-0.81	0.40	-2.0	-0.02
WestMidlands	-2.52	0.40	-6.4	-0.05
London	-1.44	0.42	-3.4	-0.04
Wales	-2.60	0.50	-5.2	-0.03
Scotland	-1.32	0.41	-3.2	-0.03
PopOver250K	-1.27	0.35	-3.6	-0.04
Pop25K250K	-1.31	0.30	-4.3	-0.08
Pop3K25K	-1.24	0.34	-3.7	-0.05
Adults1	2.55	0.32	8.0	0.10
Adults3p	-0.75	0.27	-2.8	-0.04
Children0	3.33	0.24	13.8	0.41
Detached	1.26	0.29	4.3	0.07
Terrace	0.84	0.27	3.1	0.05
PurposeFlat	1.01	0.42	2.4	0.02
ConvertedFlat	3.46	0.73	4.8	0.02
Dependent Variable: rail_sum				

**Table C.40: All Coach**

	Coefficient	Std. Error	t	Elasticity
(Constant)	1.09	0.56	1.9	
HouseholdIncome	0.0000	0.00	2.1	0.10
Age059	-1.45	0.24	-5.9	-0.45
Employed	-0.35	0.18	-1.9	-0.07
Student	2.12	0.43	4.9	0.03
NoCompanyCar	1.24	0.47	2.7	0.47
Residence10p	0.45	0.18	2.5	0.05
ResidenceEver	0.66	0.22	3.0	0.05
NorthEast	0.75	0.37	2.0	0.01
NorthWest	0.48	0.25	1.9	0.02
Yorkshire	1.27	0.28	4.5	0.04
EastMidlands	0.93	0.30	3.1	0.03
WestMidlands	0.66	0.28	2.4	0.02
London	-0.62	0.25	-2.4	-0.03
SouthWest	1.42	0.28	5.0	0.05
Wales	1.32	0.35	3.7	0.03
Pop25K250K	0.37	0.17	2.2	0.04
Adults1	0.98	0.21	4.6	0.06
Children0	0.55	0.18	3.0	0.12

Dependent Variable: **coach\_sum**

**Table C.41: All Air**

	Coefficient	Std. Error	t	Elasticity
(Constant)	5.20	0.58	9.0	
HouseholdIncome	0.0001	0.00	13.4	1.44
I3 - Sex	-0.62	0.17	-3.8	-0.24
Employed	0.91	0.18	5.0	0.33
NoCompanyCar	-6.84	0.53	-13.0	-5.10
NorthEast	0.94	0.40	2.3	0.03
London	0.82	0.27	3.0	0.08
Scotland	6.05	0.30	20.0	0.41
PopOver250K	0.55	0.24	2.3	0.06
Pop3K25K	-0.52	0.22	-2.3	-0.07
Adults1	0.78	0.25	3.2	0.10
Adults3p	-1.27	0.20	-6.4	-0.25
Children0	0.32	0.17	1.8	0.14
Detached	0.48	0.21	2.3	0.09
PurposeFlat	-0.73	0.30	-2.4	-0.06
ConvertedFlat	1.95	0.55	3.6	0.04
AccomOther	4.73	1.15	4.1	0.02

Dependent Variable: **air\_sum**



**Table C.42: All <150 miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	98.54	1.68	58.7	
HouseholdIncome	0.0007	0.00	29.2	0.42
I3 - Sex	-8.54	0.42	-20.2	-0.17
Age059	1.27	0.71	1.8	0.04
Employed	11.15	0.52	21.6	0.21
Student	8.39	1.25	6.7	0.01
NoCompanyCar	-89.18	1.34	-66.8	-3.37
Residence0	4.65	0.92	5.1	0.01
Residence12	3.64	0.87	4.2	0.01
Residence23	2.98	0.89	3.4	0.01
Residence35	1.27	0.76	1.7	0.01
Residence10p	-2.02	0.62	-3.3	-0.02
ResidenceEver	-2.89	0.72	-4.0	-0.02
NorthEast	-11.08	1.09	-10.2	-0.02
NorthWest	-7.35	0.76	-9.7	-0.03
Yorkshire	-5.01	0.84	-6.0	-0.02
EastMidlands	1.41	0.89	1.6	0.00
WestMidlands	-3.30	0.82	-4.0	-0.01
London	-9.92	0.76	-13.0	-0.05
SouthWest	1.94	0.84	2.3	0.01
Wales	-8.35	1.03	-8.1	-0.02
Scotland	-10.29	0.85	-12.1	-0.04
Pop3K25K	4.19	0.58	7.2	0.03
Rural	6.52	0.72	9.0	0.03
Adults1	3.49	0.63	5.6	0.02
Adults3p	-5.76	0.54	-10.7	-0.06
Children0	7.06	0.53	13.4	0.15
Detached	7.91	0.58	13.7	0.07
Terrace	-1.10	0.53	-2.1	-0.01
PurposeFlat	-4.32	0.81	-5.4	-0.02
AccomOther	-5.02	2.94	-1.7	0.00

Dependent Variable: **dist0149\_sum**

**Table C.43: All 150+ miles**

	Coefficient	Std. Error	t	Elasticity
(Constant)	35.64	1.54	23.1	
HouseholdIncome	0.0006	0.00	27.2	0.67
I3 - Sex	-3.52	0.43	-8.2	-0.12
Employed	5.79	0.48	12.1	0.19
Student	6.31	1.24	5.1	0.01
NoCompanyCar	-38.72	1.35	-28.7	-2.54
Residence0	5.40	0.87	6.2	0.02
Residence10p	-1.54	0.54	-2.9	-0.03
ResidenceEver	-3.71	0.64	-5.8	-0.05
NorthEast	7.85	1.06	7.4	0.02
NorthWest	4.95	0.70	7.0	0.04
Yorkshire	6.09	0.79	7.7	0.04
WestMidlands	3.48	0.77	4.5	0.02
SouthWest	6.35	0.81	7.9	0.04
Wales	3.87	1.00	3.9	0.01
Scotland	9.01	0.81	11.1	0.05
Pop25K250K	1.23	0.53	2.3	0.02
Pop3K25K	1.24	0.63	2.0	0.02
Rural	1.99	0.77	2.6	0.01
Adults1	4.08	0.64	6.4	0.05
Adults3p	-5.25	0.54	-9.8	-0.09
Children0	4.09	0.48	8.5	0.15
Detached	3.94	0.54	7.3	0.06
PurposeFlat	-2.44	0.77	-3.2	-0.02
ConvertedFlat	4.09	1.40	2.9	0.01
AccomOther	6.93	2.96	2.3	0.00

Dependent Variable: **dist150plus\_sum**

**Table C.44: All Business**

	Coefficient	Std. Error	t	Elasticity
(Constant)	90.03	1.08	83.6	
HouseholdIncome	0.0003	0.00	18.7	0.62
I3 - Sex	-6.82	0.31	-22.3	-0.44
Employed	8.51	0.33	25.4	0.51
NoCompanyCar	-90.15	0.97	-93.2	-11.12
Residence10p	-1.23	0.37	-3.3	-0.04
ResidenceEver	-1.91	0.44	-4.3	-0.05
EastMidlands	1.33	0.59	2.2	0.01
London	-2.25	0.49	-4.6	-0.04
SouthWest	1.78	0.55	3.2	0.02
Scotland	1.99	0.55	3.6	0.02
Rural	1.54	0.50	3.1	0.02
Adults1	2.85	0.45	6.3	0.06
Adults3p	-2.95	0.37	-7.9	-0.10
Children0	1.22	0.34	3.6	0.09
Detached	2.31	0.41	5.6	0.07
Terrace	-0.95	0.38	-2.5	-0.03
PurposeFlat	-1.34	0.58	-2.3	-0.02

Dependent Variable: **business\_sum**

**Table C.45: All Leisure**

	Coefficient	Std. Error	t	Elasticity
(Constant)	7.09	0.84	8.4	
HouseholdIncome	0.0002	0.00	14.7	0.33
I3 - Sex	-1.42	0.22	-6.4	-0.09
Age059	1.31	0.36	3.6	0.13
Employed	1.59	0.27	5.8	0.09
Student	2.35	0.66	3.6	0.01
NoCompanyCar	-5.67	0.71	-8.0	-0.66
Residence0	-0.90	0.44	-2.0	-0.01
Yorkshire	1.19	0.40	3.0	0.01
WestMidlands	0.95	0.40	2.4	0.01
London	-1.26	0.40	-3.2	-0.02
SouthWest	3.36	0.41	8.3	0.03
Pop25K250K	0.81	0.30	2.7	0.03
Pop3K25K	2.15	0.33	6.4	0.05
Rural	2.74	0.41	6.7	0.04
Adults3p	-1.32	0.27	-4.8	-0.04
Children0	2.99	0.27	11.0	0.20
Detached	3.03	0.31	9.9	0.09
Terrace	-0.78	0.28	-2.8	-0.03
PurposeFlat	-1.29	0.42	-3.1	-0.02
ConvertedFlat	-1.87	0.75	-2.5	-0.01
Dependent Variable: <b>leisure_sum</b>				

**Table C.46: All VFR**

	Coefficient	Std. Error	t	Elasticity
(Constant)	5.72	1.06	5.4	
HouseholdIncome	0.0004	0.00	25.3	0.56
Age059	1.88	0.45	4.1	0.14
Employed	0.67	0.33	2.0	0.03
Student	6.81	0.80	8.5	0.02
NoCompanyCar	-4.81	0.85	-5.6	-0.44
Residence0	7.23	0.57	12.7	0.05
Residence01	2.80	0.79	3.6	0.01
Residence12	3.47	0.54	6.4	0.03
Residence23	1.54	0.55	2.8	0.01
Residence10p	-1.96	0.37	-5.3	-0.05
ResidenceEver	-3.23	0.44	-7.4	-0.06
NorthEast	-2.98	0.70	-4.3	-0.01
NorthWest	-3.05	0.49	-6.2	-0.03
Yorkshire	-1.29	0.54	-2.4	-0.01
EastMidlands	-2.07	0.57	-3.6	-0.01
WestMidlands	-2.10	0.53	-4.0	-0.02
Eastern	-1.04	0.52	-2.0	-0.01
London	-2.90	0.50	-5.9	-0.03
Wales	-3.69	0.66	-5.6	-0.02
Scotland	-3.87	0.54	-7.1	-0.03
Pop3K25K	0.78	0.37	2.1	0.01
Rural	2.27	0.46	4.9	0.02
Adults1	3.02	0.40	7.6	0.05
Adults3p	-3.69	0.34	-10.7	-0.09
Children0	5.66	0.34	16.7	0.30
Detached	2.65	0.37	7.2	0.06
Terrace	0.83	0.34	2.5	
PurposeFlat	-2.17	0.51	-4.2	-0.02
Dependent Variable: <b>VFR_sum</b>				

**Table C.47: All Holiday**

	Coefficient	Std. Error	t	Elasticity
(Constant)	3.82	1.02	3.8	
HouseholdIncome	0.0003	0.00	20.0	0.50
Quota allocation year	0.07	0.04	2.0	0.09
Age059	-0.86	0.38	-2.3	-0.08
NoCompanyCar	-2.01	0.79	-2.5	-0.24
Residence0	2.54	0.50	5.0	0.02
NorthEast	1.31	0.64	2.0	0.01
NorthWest	1.56	0.43	3.7	0.02
Yorkshire	2.18	0.48	4.5	0.02
EastMidlands	3.12	0.52	6.0	0.03
WestMidlands	1.28	0.47	2.7	0.01
SouthWest	2.29	0.49	4.7	0.02
Wales	1.43	0.60	2.4	0.01
Scotland	3.06	0.49	6.3	0.03
PopOver250K	0.62	0.36	1.7	0.01
Pop3K25K	1.04	0.34	3.0	0.02
Adults3p	-2.70	0.30	-8.9	-0.08
Children0	1.76	0.29	6.1	0.12
Detached	1.98	0.34	5.8	0.06
Terrace	-0.72	0.32	-2.3	-0.02
PurposeFlat	-1.98	0.47	-4.2	-0.02
ConvertedFlat	2.31	0.84	2.8	0.01

Dependent Variable: **holiday\_sum**

**Table C.48: All Commuting**

	Coefficient	Std. Error	t	Elasticity
(Constant)	25.97	0.89	29.2	
HouseholdIncome	0.0001	0.00	10.9	0.57
Quota allocation year	-0.08	0.04	-2.3	-0.21
I3 - Sex	-3.93	0.23	-16.9	-0.53
Employed	5.06	0.25	20.3	0.64
NoCompanyCar	-24.10	0.74	-32.7	-6.22
Residence23	0.93	0.46	2.1	0.02
Residence10p	-1.17	0.29	-4.1	-0.08
ResidenceEver	-0.98	0.32	-3.1	-0.05
NorthEast	-1.41	0.57	-2.5	-0.02
NorthWest	-1.61	0.38	-4.2	-0.05
Yorkshire	-1.77	0.43	-4.2	-0.04
London	-2.33	0.41	-5.7	-0.08
Wales	-3.21	0.54	-6.0	-0.04
Scotland	-2.59	0.43	-6.1	-0.06
Pop25K250K	1.37	0.31	4.4	0.10
Pop3K25K	1.60	0.35	4.5	0.08
Rural	1.75	0.43	4.1	0.05
Adults1	1.04	0.34	3.1	0.05
Adults3p	-0.81	0.28	-2.8	-0.06
Detached	0.84	0.29	2.8	0.05

Dependent Variable: **commuting\_sum**

Appendix D: Estimates of NTS Models Using ACORN Classifications
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**Table D.1: Small ACORN classification**

Thriving  
 Expanding  
 Rising  
 Settling  
 Aspiring  
 Striving  
 CouldNotClassify

**Table D.2: Medium ACORN classifications**

WealthyAchievers	Wealthy Achievers, Suburban Areas
AffluentGreys	Affluent Greys, Rural Communities
ProsperousPensioners	Prosperous Pensioners, Retirement Areas
AffluentExecutives	Affluent Executives, Family Areas
WellOffWorkers	Well off Workers, Family Areas
AffluentUrbanities	Affluent Urbanities, Town & City Areas
ProsperousProfessionals	Prosperous Professionals, Met Areas
BetterOffExecutives	Better-off executives, Inner City Areas
ComfortableMiddleAge	Comfortable Middle Age, Mature Home Owning Areas
SkilledWorkers	Skilled Workers, Home Owning Areas
NewHomeOwners	New Home Owners, Mature Communities
WhiteCollarWorkers	White Collar Workers, Better Off Multi-Ethnic Areas
OlderPeople	Older People, Less prosperous Areas
BetterOffHomes	Council Estate Residents, Better Off Homes
HighUnemployment	Council Estate Residents, High Unemployment
GreatestHardship	Council Estate Residents, Greatest Hardship
PeopleinMultiEthnic	People in Multi-Ethnic, Low Income Areas
Couldnotclassify	Could not classify

**Table D.3: All travel**

	Coefficient	Std. Error	t	Elasticity
(Constant)	20.49	1.62	12.62	
HouseholdIncome	0.0012	0.00	29.85	0.48
Sex	-12.11	0.78	-15.57	-0.15
Age60p	-3.20	1.29	-2.48	-0.02
Employed	16.75	0.95	17.58	0.20
Student	13.45	2.36	5.71	0.01
CompanyCar	127.20	2.42	52.57	0.09
Residence0	16.64	1.63	10.19	0.03
Residence01	5.39	2.26	2.38	0.00
Residence12	9.12	1.55	5.88	0.02
Residence23	7.54	1.58	4.78	0.01
Residence35	5.56	1.34	4.17	0.02
Residence510	4.46	1.12	3.99	0.02
Yorkshire	2.98	1.42	2.09	0.01
EastMidlands	6.67	1.53	4.35	0.01
WestMidlands	3.50	1.42	2.47	0.01
London	-13.71	1.40	-9.81	-0.04
SouthWest	10.91	1.43	7.61	0.02
Mets	-7.25	1.32	-5.51	-0.03
PopOver250K	-7.55	1.25	-6.05	-0.03
Pop25K250K	-5.04	1.03	-4.89	-0.03
Adults1	7.48	1.15	6.52	0.03
Adults3p	-10.40	0.99	-10.50	-0.06
Children1	-11.38	0.97	-11.79	-0.12
Detached	11.30	1.06	10.66	0.07
Terrace	-2.49	0.97	-2.58	-0.02
PurposeFlat	-8.51	1.46	-5.84	-0.02
Dependent Variable: <b>realdistW5xHH_sum</b>				

**Table D.4: All travel, small ACORN**

	Coefficient	Std. Error	t	Elasticity
(Constant)	141.32	2.90	48.78	
HouseholdIncome	0.0011	0.00	27.32	0.45
Sex	-12.17	0.78	-15.66	-0.15
Age60p	-3.58	1.29	-2.76	-0.02
Employed	16.54	0.95	17.34	0.19
Student	11.77	2.36	4.98	0.01
NoCompanyCar	-126.96	2.42	-52.49	-3.03
Residence0	15.86	1.63	9.70	0.03
Residence01	4.61	2.27	2.03	0.00
Residence12	8.66	1.55	5.58	0.02
Residence23	7.46	1.58	4.72	0.01
Residence35	5.68	1.34	4.25	0.02
Residence510	4.49	1.12	4.02	0.02
Yorkshire	3.24	1.41	2.30	0.01
EastMidlands	7.43	1.53	4.86	0.01
WestMidlands	3.48	1.38	2.52	0.01
London	-9.85	1.34	-7.36	-0.03
SouthWest	10.86	1.43	7.57	0.02
PopOver250K	-2.70	1.18	-2.28	-0.01
Pop3K25K	4.64	1.07	4.32	0.02
Rural	5.29	1.41	3.75	0.01
Adults1	7.18	1.15	6.26	0.03
Adults3p	-9.71	0.99	-9.78	-0.06
Children1	-10.74	0.97	-11.10	-0.12
Detached	9.92	1.05	9.45	0.06
PurposeFlat	-6.80	1.42	-4.80	-0.02
Thriving	7.55	1.17	6.46	0.03
Expanding	3.01	1.30	2.32	0.01
Rising	9.97	1.64	6.09	0.02
Striving	-4.01	1.08	-3.72	-0.02
Dependent Variable: <b>realdistW5xHH_sum</b>				



**Table D.5: All travel, medium ACORN**

	Coefficient	Std. Error	t	Elasticity
(Constant)	24.34	1.77	13.72	
HouseholdIncome	0.0011	0.00	27.22	0.45
Sex	-12.17	0.78	-15.65	-0.15
Age60p	-3.95	1.30	-3.05	-0.02
Employed	16.59	0.95	17.40	0.19
Student	11.53	2.36	4.89	0.01
CompanyCar	126.72	2.42	52.40	0.09
Residence0	15.65	1.63	9.58	0.03
Residence01	4.54	2.27	2.00	0.00
Residence12	8.73	1.55	5.63	0.02
Residence23	7.31	1.58	4.63	0.01
Residence35	5.63	1.33	4.22	0.02
Residence510	4.38	1.12	3.92	0.02
Yorkshire	3.89	1.43	2.73	0.01
EastMidlands	7.53	1.54	4.91	0.01
WestMidlands	3.95	1.42	2.78	0.01
London	-13.25	1.46	-9.10	-0.04
SouthWest	10.37	1.44	7.21	0.02
Mets	-2.41	1.30	-1.86	-0.01
PopOver250K	-3.68	1.26	-2.92	-0.01
Pop3K25K	3.64	1.14	3.18	0.02
Rural	3.68	1.45	2.54	0.01
Adults1	7.25	1.15	6.32	0.03
Adults3p	-9.84	0.99	-9.92	-0.06
Children1	-10.84	0.97	-11.23	-0.12
Detached	8.68	1.05	8.30	0.05
PurposeFlat	-8.67	1.45	-5.98	-0.02
WelloffWorkers	-8.21	1.59	-5.16	-0.02
ProsperousProfessionals	6.69	2.98	2.24	0.00
ComfortableMiddleAge	-5.32	1.28	-4.17	-0.02
SkilledWorkers	-11.95	1.39	-8.59	-0.03
NewHomeOwners	-8.82	1.49	-5.90	-0.02
WhiteCollarWorkers	-5.49	2.05	-2.68	-0.01
OlderPeople	-10.36	2.24	-4.63	-0.01
BetterOffHomes	-14.64	1.44	-10.16	-0.04
HighUnemployment	-5.33	2.56	-2.08	0.00
GreatestHardship	-17.42	2.74	-6.36	-0.01
Couldnotclassify	-10.90	5.54	-1.97	0.00
Dependent Variable: <b>realdistW5xHH_sum</b>				

## Appendix E: ITS Long Distance Travel Survey

Dear traveller

Survey Site \_\_\_\_\_

Thank you for agreeing to take part in this survey, which is being undertaken on behalf of the Independent Transport Commission by the Institute for Transport Studies at the University of Leeds. The purpose of the survey is to investigate long distance travel (**round-trip journeys from home/office of 100 miles or more**) in **Great Britain** by British residents in order to forecast how it might develop over the next 20-30 years.

When you have completed the questionnaire, please return it to us by hand or in the Freepost envelope provided. Alternatively, you can complete it online at [www.its....](http://www.its....) In any case, your answers should relate to the journey you are making when given this questionnaire.

All information will be treated according to the Data Protection legislation and will be used for the purposes of this research project alone.

If you have any queries regarding this survey, please contact Nusrat on .....

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### Part A: Questions about your current journey

1. **What is your ultimate destination in GB? That is, the farthest place from your home/office on this journey, or your point of departure from GB.**

city/town/village \_\_\_\_\_ county \_\_\_\_\_ postcode \_\_\_\_\_

2. **What is the approximate distance you will travel for the entire round-trip journey in GB by *all means of travel* from your home/office to your ultimate destination and back?**

\_\_\_\_\_ miles (must be 100 miles or more)

3. **Which is your main means of travel for this journey? That is, the way you are travelling for the longest distance within GB.**

car  train  coach  air  other (please specify) \_\_\_\_\_

4. **If you didn't use your current main means of travel, which would be your next best alternative for this journey?**

car  train  coach  air  no other means suitable

5. **What is the approximate travel time for the *round-trip* journey, door-to-door?**

\_\_\_\_\_ hours \_\_\_\_\_ minutes

6. **How many other people are travelling with you?**

none  1  2  3  4  5  6 or more

7. **How many of these are children?**

\_\_\_\_\_ under 5 years \_\_\_\_\_ 5 to 16 years no children

8. **What are the reasons or purposes for your journey?**

	main purpose (tick 1)	other (tick all that apply)
business	<input type="checkbox"/>	<input type="checkbox"/>
leisure/shopping/personal business	<input type="checkbox"/>	<input type="checkbox"/>
holiday/short break	<input type="checkbox"/>	<input type="checkbox"/>
visiting friends/relatives	<input type="checkbox"/>	<input type="checkbox"/>
commute/education	<input type="checkbox"/>	<input type="checkbox"/>

9. **How many nights are you away?**

day trip  \_\_\_\_\_ nights away

10. **Who is paying the travel costs?**

I/we are paying ourselves  my company or employer is paying

11. How frequently have you made a similar trip to this destination in the past year?

\_\_\_\_\_ times

12. About how much are the travel costs for the entire *round-trip door-to-door* journey for your party by your current means of travel and how much do you think the costs would be if you had used another means of travel? (please include all associated travel costs: getting to/from station, parking, tolls)

car	£ _____	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
train	£ _____	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
coach	£ _____	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
air	£ _____	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>

13. About how much would your *party's round-trip* journey cost have to increase before you would switch to another main means of travel or not make this trip?

£ \_\_\_\_\_ must make this journey by current mode

14. What would you do instead?

go by car  go by train  go by coach  go by air   
go somewhere else  not travel  must make this journey by current mode

15. About how much would your *party's round-trip* journey cost by the alternative means of travel in Q14 have to fall before you would switch to that means?

£ \_\_\_\_\_ would not switch

16. About how long will the entire *round-trip* journey take *door-to-door* by your current means of travel and how long do you think it would take if you had used another main means of travel? (please include all travel time: time parking, getting to/from station)

car	_____ hrs _____ mins	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
train	_____ hrs _____ mins	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
coach	_____ hrs _____ mins	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>
air	_____ hrs _____ mins	don't know	<input type="checkbox"/>	not possible	<input type="checkbox"/>

17. About how much would your *round-trip* journey time need to increase before you would switch to another means of travel or not make this trip?

\_\_\_\_\_ minutes must make this journey by current mode

18. What would you do instead?

go by car  go by train  go by coach  go by air   
go somewhere else  not travel  must make this journey by current mode

19. About how much would the *round-trip* journey time using this alternative means of travel in Q18 have to be reduced before you would switch to that means?

\_\_\_\_\_ minutes would not switch

20. About how much do travel costs make up of your *party's* total costs for this journey? (that is, including hotel, meals, entertainment, etc.)

less than 1/4  at least 1/4 but less than 1/2   
at least 1/2 but less than 3/4  more than 3/4

**21. How important were the following factors in your choice of main means of travel for this journey?**

	not important	→	→	→	very important
	1	2	3	4	5
cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
travel time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
convenient access (easy to get to station)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
luggage/equipment requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
can leave when I want	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ease of making multiple stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
comfort	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
reliability (time of arrival)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
can use travel time for other tasks/activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
environmental concerns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
parking difficult/costly at destination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**22. If you did not use a car as your main means of travel for this journey, does your party have a car that could have been used?**

yes       no       car main means

<b>Part B: Questions about you</b>
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**23. Are you**

male ?    female ?

**24. How old are you?**

under 25     25-34     35-44     45-54     55-64     65-74     75+

**25. Where do you live?**

city/town/village \_\_\_\_\_ county \_\_\_\_\_ postcode \_\_\_\_\_

**26. How many years have you lived in Britain?**

\_\_\_\_\_ years

**27. What is your current working status?**

full time     part time     unemployed     retired   
 student     looking after home/family     permanently sick/other non-working

**28. How many individuals are in your household including yourself?**

\_\_\_\_\_ adults (16+)    \_\_\_\_\_ children (under 16)

**29. How many cars does your household own?**

none     1     2     3 or more

**30. Do you have a 2<sup>nd</sup> home in Great Britain?**

yes     no

**31. What is your *personal* income before tax and other deductions per year?**

under £10,000       £40,000-£49,999   
 £10,000-£19,999       £50,000-£74,999   
 £20,000-£29,999       £75,000 or more   
 £30,000-£39,999       rather not answer

**32. What is the total income of your household before tax and deductions per year?**

- under £10,000  £40,000-£49,999
- £10,000-£19,999  £50,000-£74,999
- £20,000-£29,999  £75,000 or more
- £30,000-£39,999  rather not answer

**33. About how far do you live from each of the following?**

- mainline rail station \_\_\_\_\_ miles
- long-distance coach station \_\_\_\_\_ miles
- airport offering flights within Britain \_\_\_\_\_ miles
- motorway entrance/exit \_\_\_\_\_ miles

**34. In which type of area do you live?**

- large metropolitan area
- medium city or town (population 3,000 to 250,000)
- rural area

**35. How concerned are you about climate change?**

- not at all concerned     →    →    →    very concerned

**36. Do you consider the environment in your long distance travel decisions?**

- not at all     →    →    →    very much

**Part C: Questions about your other long distance journeys**

**37. How many journeys of 100 miles or more round trip have you made in the past four weeks in GB for the following purposes by each means of travel?**

	car	train	coach	air
business				
leisure/shopping/personal business				
holiday/short break				
visiting friends/relatives				
commute/education				

**38. If the cost of international travel increased significantly, how likely would you be to holiday more in Great Britain?**

- not at all likely     →    →    →    very likely

**39. If you travel for business, how much can this be reduced by teleconferencing?**

- not at all     25%     50%     75%     100%

**Thank you for taking part in our survey!**

If you are willing to discuss your long distance travel further with us, please give a phone number where you can be reached. \_\_\_\_\_