

Table 3.2. Trip Frequency Models - Long Trips

Variable	Acronym	Definition	Trip Purpose							
			Business		Commute		Recreation		Other	
			Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat
1	regacc	Regional accessibility	-0.217	Constr	-0.217	Constr	-0.217	Constr	-0.217	Constr
2	slogsum	Short trip logsum								
3	llogsum	Long trip logsum	0.123	Constr	0.123	Constr	0.123	Constr	0.123	Constr
4	hhsizen	Household size								
5	onephh	One person household? (0/1)							-0.424	-2.0
6	threephh	Three person household? (0/1)							-0.378	-2.8
7	medinc	Medium income household? (0/1)	0.527	1.5	0.188	0.8	-0.482	-3.9		
8	highinc	High income household? (0/1)	1.139	3.0	0.291	1.1	-0.246	-1.3	0.393	2.1
9	missinc	Missing income household? (0/1) (used for model estimation only)	0.955	2.3	0.340	1.1	0.282	1.3	0.158	0.7
10	nocars	Zero car household? (0/1)								
11	carsltw	Fewer autos than workers? (0/1)	-0.412	-1.0	-0.457	-1.6	-0.922	-2.4	-0.915	-2.2
12	wkrspps	Workers / household size	0.537	1.9	1.274	5.8				
13	sacog	Resident in SACOG region? (0/1)	0.234	Constr	0.011	Constr	1.807	Constr	4.080	Constr
14	sandag	Resident in SANDAG region? (0/1)	-0.174	Constr	-0.342	Constr	1.286	Constr	3.685	Constr
15	mtc	Resident in MTC region? (0/1)	-0.683	Constr	-1.421	Constr	3.002	Constr	4.676	Constr
16	nowkrs	No worker household? (0/1)	-2.098	-3.4	-2.668	-3.7			0.372	2.4
17	scag	Resident in SCAG region? (0/1)	-0.274	Constr	-0.948	Constr	1.571	Constr	3.899	Constr
21	const1	Constant for 1 trip	-4.611	Constr	-2.674	Constr	-4.518	Constr	-8.510	Constr
22	const2	Constant for 2 or more trips	-5.247	Constr	-4.110	Constr	-6.081	Constr	-9.840	Constr

Table 3.3. Trip Frequency Models - Short Trips

Variable	Acronym	Definition	Trip Purpose							
			Business		Commute		Recreation		Other	
			Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat
1	regacc	Regional accessibility	-0.176	Constr	-0.176	Constr	-0.176	Constr	-0.176	Constr
2	slogsum	Short trip logsum	0.262	Constr	0.262	Constr	0.262	Constr	0.262	Constr
3	llogsum	Long trip logsum								
4	hhsizen	Household size					-0.136	-3.5		
5	onephh	One person household? (0/1)					-0.401	-2.6		
6	threephh	Three person household? (0/1)								
7	medinc	Medium income household? (0/1)	0.331	1.2	1.045	6.0	0.355	2.5		
8	highinc	High income household? (0/1)	0.835	3.1	1.523	8.6	0.432	2.8		
9	missinc	Missing income household? (0/1) (used for model estimation only)	0.446	1.4	0.696	3.4	0.137	0.8		
10	nocars	Zero car household? (0/1)					-1.270	-2.5	-0.736	-1.6
11	carsltw	Fewer autos than workers? (0/1)	-0.947	-2.4	-0.225	-1.6				
12	wkrspps	Workers / household size	1.153	5.0	1.570	13.0				
13	sacog	Resident in SACOG region? (0/1)	-0.653	Constr	-0.816	Constr	-2.365	Constr	-3.181	Constr
14	sandag	Resident in SANDAG region? (0/1)	-0.121	Constr	-1.673	Constr	-1.767	Constr	-1.157	Constr
15	mtc	Resident in MTC region? (0/1)	-0.898	Constr	-2.216	Constr	-1.834	Constr	-3.306	Constr
16	nowkrs	No worker household? (0/1)	-0.863	-2.5	-2.163	-5.9	-0.493	-4.8		
17	scag	Resident in SCAG region? (0/1)	-2.002	Constr	-2.406	Constr	-0.879	Constr	-0.467	Constr
21	const1	Constant for 1 trip	-4.614	Constr	-3.062	Constr	-2.958	Constr	-3.798	Constr
22	const2	Constant for 2 or more trips	-5.182	Constr	-3.890	Constr	-3.864	Constr	-4.575	Constr

Table 3.9. Destination Choice Models for Long Trips

Variable	Acronym	Definition	Trip Purpose			
			Business / Commute		Recreation / Other	
			Coefficient	t-stat	Coefficient	t-stat
<i>Accessibility Variables</i>						
1	mlogsum	Mode choice logsum	0.053	Constr	0.053	Constr
2	distance	Distance (miles)	-0.024	-8.5	-0.031	-11.7
3	distsqu	Distance squared	0.000	8.9	0.000	10.8
4	distcub	Distance cubed	0.000	-8.0	0.000	-9.5
<i>Area Types</i>						
6	durban	Urban destination? (0/1)	0.724	6.7	0.810	9.5
7	drural	Rural destination? (0/1)	0.222	2.0	0.607	6.8
8	urburb	Urban to urban movement? (0/1)	-0.010	-0.1	-0.096	-0.8
9	subsub	Suburban to suburban movement? (0/1)	-0.185	-1.5	-0.029	-0.3
10	rurrur	Rural to rural movement? (0/1)	-0.112	-0.7	-0.036	-0.3
<i>Destination District</i>						
41	AMBAG	AMBAG	-0.242	Constr	0.183	Constr
42	CC	Central Coast	-0.255	Constr	1.334	Constr
43	FN	Far North	-1.728	Constr	-0.839	Constr
44	FM	Fresno	-0.685	Constr	-0.150	Constr
45	Kern	Kern	0.476	Constr	0.522	Constr
46	Merced	Merced	-0.855	Constr	-0.094	Constr
47	SSJ	S. San Joaquin	-0.144	Constr	0.547	Constr
48	SACOG	SACOG				
49	SANDAG	SANDAG	-5.072	Constr	-4.395	Constr
50	SJ	San Joaquin	-0.108	Constr	-0.375	Constr
51	Stan	Stanislaus	-1.043	Constr	-1.426	Constr
52	WSN	W. Sierra Nevada	-0.134	Constr	0.407	Constr
53	MTC	Alameda	-0.678	Constr	5.000	Constr
54	MTC	Contra Costa	0.226	Constr	5.000	Constr
55	MTC	Marin/Sonoma/Napa	0.149	Constr	5.000	Constr
56	MTC	San Francisco	-0.847	Constr	5.000	Constr
57	MTC	San Mateo	-0.687	Constr	5.000	Constr
58	MTC	Santa Clara	-0.710	Constr	5.000	Constr
59	MTC	Solano	0.800	Constr	5.000	Constr
60	SCAG	Los Angeles	-1.810	Constr	5.000	Constr
61	SCAG	Orange	-2.945	Constr	5.000	Constr
62	SCAG	Riverside	0.096	Constr	5.000	Constr
63	SCAG	San Bernardino	-4.416	Constr	5.000	Constr
64	SCAG	Ventura	-3.831	Constr	5.000	Constr
65	SCAG	Destination district	-3.001	Constr	5.000	Constr
<i>Regional Interactions</i>						
71	mtcscag	MTC to SCAG	-1.123	Constr	-6.400	Constr
72	mtcsandag	MTC to SANDAG	1.142	Constr	3.632	Constr
73	sacogscag	SACOG to SCAG	-1.736	Constr	-1.274	Constr
74	sacogsand	SACOG to SANDAG	0.368	Constr	8.000	Constr
75	scagmtc	SCAG to MTC	-1.123	Constr	-6.400	Constr
76	scagsacog	SCAG to SACOG	-1.736	Constr	-1.274	Constr
77	sandagmtc	SANDAG to MTC	1.142	Constr	3.632	Constr
78	sandagsac	SANDAG to SACOG	0.368	Constr	8.000	Constr
79	mtcsacog	MTC to SACOG	0.770	Constr	0.532	Constr
80	sacogmtc	SACOG to MTC	0.770	Constr	0.532	Constr
81	scagsanda	SCAG to SANDAG	5.403	Constr	8.098	Constr
82	sandagsca	SANDAG to SCAG	5.403	Constr	8.098	Constr
<i>Size Variables</i>						
0	L_S_M		1.000	Constr	1.000	Constr
101	loincret	Retail employment - low income	1.061	2.1	-0.041	-0.1
102	loincsvc	Service employment - low income	0.547	1.5	-1.250	-3.6
103	mdincret	Retail employment - medium income	2.232	4.9	-0.163	-0.4
104	mdincsvc	Service employment - medium income	0.829	1.8	-0.985	-3.3
105	hiincret	Retail employment - high income	1.993	5.6	0.326	0.8
106	hiincsvc	Service employment - high income	0.926	2.8	-0.933	-2.4
107	msincret	Retail employment - missing income (model estimation only)	12.991	0.1	-6.851	-0.1
108	msincsvc	Service employment - missing income (model estimation only)	12.343	0.1	-0.836	-1.4

Table 3.10. Destination Choice Models for Short Trips

Variabl	Acronym	Definition	Trip Purpose							
			Business		Commute		Recreation		Other	
			Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat	Coefficient	t-stat
<i>Accessibility Variables</i>										
1	mlogsum	Mode choice logsum	0.332	Constr	0.332	Constr	0.332	Constr	0.332	Constr
2	distance	Distance (miles)	-0.130	-3.7	-0.130	-6.1	-0.166	-7.9	-0.104	-4.0
3	distsqu	Distance squared	0.002	2.3	0.001	2.7	0.001	3.3	0.001	1.1
4	distcub	Distance cubed	0.000	-1.7	0.000	-1.8	0.000	-1.2	0.000	-0.3
<i>Area Types</i>										
6	durban	Urban destination? (0/1)	0.760	3.8	0.872	7.4	0.502	3.8	0.419	2.3
7	drural	Rural destination? (0/1)	0.036	0.2	0.126	1.1	0.081	0.6	0.190	1.1
8	urburb	Urban to urban movement? (0/1)	-0.499	-1.6	-0.019	-0.1	-0.142	-0.7	0.457	1.9
9	subsub	Suburban to suburban movement? (0/1)	0.253	1.1	-0.055	-0.4	0.051	0.3	-0.016	-0.1
10	rurrur	Rural to rural movement? (0/1)	-0.505	-1.8	-0.075	-0.5	0.336	1.9	0.245	1.0
<i>Destination District</i>										
41	AMBAG	AMBAG	-0.245	Constr	-5.730	Constr	5.366	Constr	6.909	Constr
42	CC	Central Coast	-2.553	Constr	-11.136	Constr	-4.168	Constr	-0.469	Constr
43	FN	Far North	4.294	Constr	0.805	Constr	11.121	Constr	15.867	Constr
44	FM	Fresno	-0.441	Constr	-7.272	Constr	2.226	Constr	4.798	Constr
45	Kern	Kern	0.274	Constr	-12.241	Constr	-5.457	Constr	-0.586	Constr
46	Merced	Merced	-1.435	Constr	-7.268	Constr	2.332	Constr	2.307	Constr
47	SSJ	S. San Joaquin	-0.008	Constr	-2.153	Constr	3.938	Constr	3.948	Constr
48	SACOG	SACOG								
49	SANDAG	SANDAG	-3.182	Constr	-13.230	Constr	-3.518	Constr	-2.171	Constr
50	SJ	San Joaquin	0.556	Constr	0.474	Constr	4.412	Constr	4.915	Constr
51	Stan	Stanislaus	0.244	Constr	-0.352	Constr	4.894	Constr	4.152	Constr
52	WSN	W. Sierra Nevada	1.634	Constr	0.386	Constr	5.284	Constr	4.601	Constr
53	MTC	Alameda	-0.275	Constr	0.816	Constr	1.601	Constr	2.174	Constr
54	MTC	Contra Costa	0.265	Constr	1.254	Constr	2.294	Constr	2.311	Constr
55	MTC	Marin/Sonoma/Napa	0.118	Constr	1.129	Constr	2.831	Constr	1.166	Constr
56	MTC	San Francisco	-0.109	Constr	0.447	Constr	0.878	Constr	1.140	Constr
57	MTC	San Mateo	-0.010	Constr	0.961	Constr	1.288	Constr	1.588	Constr
58	MTC	Santa Clara	-0.244	Constr	0.325	Constr	2.296	Constr	2.010	Constr
59	MTC	Solano	-0.218	Constr	1.453	Constr	1.525	Constr	2.398	Constr
60	SCAG	Los Angeles	-2.226	Constr	-9.274	Constr	4.265	Constr	4.549	Constr
61	SCAG	Orange	-3.617	Constr	-10.991	Constr	2.931	Constr	2.665	Constr
62	SCAG	Riverside	-3.139	Constr	-1.875	Constr	-1.207	Constr	-2.258	Constr
63	SCAG	San Bernardino	-3.764	Constr	-9.920	Constr	2.438	Constr	2.456	Constr
64	SCAG	Ventura	-2.226	Constr	-9.274	Constr	3.274	Constr	4.437	Constr
65	SCAG	Destination district	-3.072	Constr	-9.405	Constr	3.663	Constr	3.749	Constr
<i>Regional Interactions</i>										
71	mtcscag	MTC to SCAG								
72	mtcsandag	MTC to SANDAG								
73	sacogscag	SACOG to SCAG								
74	sacogsand	SACOG to SANDAG								
75	scagmtc	SCAG to MTC								
76	scagsacog	SCAG to SACOG								
77	sandagmtc	SANDAG to MTC								
78	sandagsac	SANDAG to SACOG								
79	mtcsacog	MTC to SACOG	2.700	Constr	-0.467	Constr	7.140	Constr	10.368	Constr
80	sacogmtc	SACOG to MTC	2.700	Constr	-0.467	Constr	7.140	Constr	10.368	Constr
81	scagsanda	SCAG to SANDAG	-1.079	Constr	0.095	Constr	0.746	Constr	-2.362	Constr
82	sandagsca	SANDAG to SCAG	-1.079	Constr	0.095	Constr	0.746	Constr	-2.362	Constr
<i>Size Variables</i>										
0	L_S_M		1.000	Constr	1.000	Constr	1.000	Constr	1.000	Constr
101	loincret	Retail employment - low income	0.038	0.0	2.285	3.7	0.149	0.3	-10.195	0.0
102	loincsvc	Service employment - low income	1.228	2.1	1.106	1.7	-2.674	-1.0	-1.478	-2.4
103	mdincret	Retail employment - medium income	0.718	1.2	1.162	4.1	-0.108	-0.2	-11.112	0.0
104	mdincsvc	Service employment - medium income	-0.057	-0.1	0.057	0.2	-0.716	-2.0	-0.987	-2.2
105	hiincret	Retail employment - high income	3.146	3.1	2.328	6.1	-0.157	-0.2	1.007	1.8
106	hiincsvc	Service employment - high income	1.002	0.9	1.114	2.9	-1.778	-1.4	-1.002	-0.8
107	msincret	Retail employment - missing income (model estimation only)	0.567	0.6	0.811	1.3	0.630	0.8	0.286	0.4
108	msincsvc	Service employment - missing income (model estimation only)	-1.592	-0.7	-0.249	-0.4	-1.167	-0.8	-11.537	-0.1