

Appendix B-1: Working Family Profile: Metropolitan Atlanta

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location				
% living in central city PUMAs	17%	16%	21%	18%
% living in inner suburban PUMAs	30%	23%	29%	28%
% living in outer suburban PUMAs	35%	40%	30%	37%
% living in suburban fringe PUMAs	18%	21%	21%	16%
By Household Composition				
% married-couple with children	44%	55%	19%	29%
% married couple without children	9%	12%	28%	35%
% single-parent family	15%	16%	3%	5%
% single person households	11%	6%	35%	24%
% multiple families with children	9%	5%	1%	1%
% multiple families without children	13%	6%	14%	6%
By Housing Tenure				
% owner-occupants	47%	81%	65%	91%
% renters	53%	19%	35%	9%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,066	\$1,318	\$2,408	\$1,575
Renters: Median monthly rent	\$765	\$664	\$896	\$745
Owners: Median household income	\$58,905	\$55,000	\$122,922	\$101,000
Renters: Median household income	\$38,159	\$33,600	\$73,141	\$57,000
Owners: Median housing cost burden	0.51	0.32	0.31	0.21
Renters: Median housing cost burden	0.31	0.26	0.18	0.17
Commute Modes and Times				
% Commuting trips by car (drive-alone)	92%	94%	93%	93%
% Commuting trips by public transit	5%	4%	2%	2%
% Commuting trips by walking or bicycling	3%	2%	1%	2%
% Commuting trips by other modes	0%	0%	4%	4%
Average commuting time by car (minutes)	30	30	29	30
Average commuting time by public transit	47	49	42	43
Average commuting time by walking or bicycling	23	23	36	32

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-2: Working Family Profile: Metropolitan Chicago

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location				
% living in central city PUMAs	19%	13%	26%	13%
% living in secondary central city PUMAs	6%	5%	3%	4%
% living in inner suburban PUMAs	20%	25%	12%	17%
% living in outer suburban PUMAs	28%	30%	29%	36%
% living in suburban fringe PUMAs	28%	27%	30%	30%
By Household Composition				
% married-couple with children	47%	59%	18%	28%
% married couple without children	9%	9%	26%	33%
% single-parent family	15%	17%	3%	6%
% single person households	10%	6%	39%	26%
% multiple families with children	9%	6%	1%	1%
% multiple families without children	11%	4%	13%	6%
By Housing Tenure				
% owner-occupants	47%	77%	61%	88%
% renters	54%	23%	39%	12%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,233	\$1,467	\$2,652	\$1,552
Renters: Median monthly rent	\$717	\$610	\$912	\$682
Owners: Median household income	\$62,289	\$61,800	\$126,732	\$102,300
Renters: Median household income	\$37,342	\$35,000	\$76,237	\$59,100
Owners: Median housing cost burden	0.52	0.32	0.35	0.20
Renters: Median housing cost burden	0.30	0.25	0.18	0.15
Commute Modes and Times				
% Commuting trips by car (drive-alone)	82%	87%	76%	84%
% Commuting trips by public transit	13%	10%	17%	11%
% Commuting trips by walking or bicycling	5%	3%	4%	3%
% Commuting trips by other modes	0%	0%	3%	2%
Average commuting time by car (minutes)	29	28	30	28
Average commuting time by public transit	48	51	45	52
Average commuting time by walking or bicycling	18	17	20	19

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-3: Working Family Profile: Metropolitan Dallas-Ft. Worth

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHS	Nonmover HHS	Recent Mover HHS	Nonmover HHS
By Location				
% living in central city PUMAs	10%	10%	10%	8%
% living in secondary central city PUMAs	2%	3%	1%	1%
% living in inner suburban PUMAs	49%	45%	47%	50%
% living in outer suburban PUMAs	31%	31%	36%	34%
% living in suburban fringe PUMAs	8%	11%	6%	7%
By Household Composition				
% married-couple with children	46%	56%	21%	28%
% married couple without children	10%	12%	28%	38%
% single-parent family	15%	15%	3%	5%
% single person households	11%	6%	37%	24%
% multiple families with children	8%	6%	1%	1%
% multiple families without children	11%	5%	11%	5%
By Housing Tenure				
% owner-occupants	39%	77%	54%	88%
% renters	61%	23%	46%	12%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,159	\$1,440	\$2,508	\$1,895
Renters: Median monthly rent	\$672	\$582	\$814	\$655
Owners: Median household income	\$54,951	\$50,600	\$126,273	\$97,000
Renters: Median household income	\$34,581	\$31,400	\$68,997	\$54,000
Owners: Median housing cost burden	0.57	0.37	0.32	0.26
Renters: Median housing cost burden	0.30	0.25	0.18	0.16
Commute Modes and Times				
% Commuting trips by car (drive-alone)	94.5%	97%	95%	94%
% Commuting trips by public transit	2.5%	2%	1%	1%
% Commuting trips by walking or bicycling	3.1%	1%	2%	1%
% Commuting trips by other modes	0.0%	0%	3%	4%
Average commuting time by car (minutes)	26	27	26	27
Average commuting time by public transit	46	45	44	45
Average commuting time by walking or bicycling	18	19	30	30

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-4: Working Family Profile: Greater Los Angeles

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location				
% living in central city PUMAs	24%	24%	20%	16%
% living in secondary central city PUMAs	4%	4%	3%	3%
% living in inner suburban PUMAs	23%	25%	23%	24%
% living in outer suburban PUMAs	29%	29%	33%	36%
% living in suburban fringe PUMAs	21%	18%	22%	21%
By Household Composition				
% married-couple with children	49%	58%	21%	30%
% married couple without children	7%	7%	23%	29%
% single-parent family	14%	15%	5%	8%
% single person households	7%	4%	33%	23%
% multiple families with children	13%	11%	2%	2%
% multiple families without children	10%	5%	16%	8%
By Housing Tenure				
% owner-occupants	34%	61%	51%	82%
% renters	67%	39%	49%	18%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,202	\$1,662	\$2,772	\$2,002
Renters: Median monthly rent	\$790	\$700	\$1,009	\$800
Owners: Median household income	\$56,535	\$57,600	\$132,483	\$103,100
Renters: Median household income	\$35,371	\$33,300	\$80,419	\$60,000
Owners: Median housing cost burden	0.57	0.39	0.34	0.26
Renters: Median housing cost burden	0.35	0.29	0.19	0.18
Commute Modes and Times				
% Commuting trips by car (drive-alone)	87%	90%	92%	92%
% Commuting trips by public transit	7%	5%	2%	2%
% Commuting trips by walking or bicycling	5%	4%	2%	2%
% Commuting trips by other modes	1%	1%	4%	4%
Average commuting time by car (minutes)	28	27	28	28
Average commuting time by public transit	46	47	51	53
Average commuting time by walking or bicycling	19	17	20	20

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-5: Working Family Profile: Metropolitan New York

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location				
% living in central city PUMAs	24%	24%	28%	21%
% living in secondary central city PUMAs	3%	2%	2%	2%
% living in inner suburban PUMAs	28%	28%	17%	20%
% living in outer suburban PUMAs	22%	25%	30%	35%
% living in suburban fringe PUMAs	22%	21%	23%	23%
By Household Composition				
% married-couple with children	47%	55%	21%	30%
% married couple without children	9%	9%	25%	30%
% single-parent family	14%	18%	3%	7%
% single person households	10%	6%	35%	25%
% multiple families with children	9%	6%	1%	2%
% multiple families without children	11%	6%	14%	7%
By Housing Tenure				
% owner-occupants	37%	58%	52%	77%
% renters	63%	42%	49%	23%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,485	\$1,860	\$2,957	\$1,967
Renters: Median monthly rent	\$851	\$700	\$1,168	\$800
Owners: Median household income	\$67,271	\$67,900	\$158,432	\$122,100
Renters: Median household income	\$40,521	\$37,600	\$100,179	\$71,000
Owners: Median housing cost burden	0.54	0.36	0.31	0.21
Renters: Median housing cost burden	0.33	0.26	0.18	0.15
Commute Modes and Times				
% Commuting trips by car (drive-alone)	64%	67%	61%	70%
% Commuting trips by public transit	28%	26%	30%	22%
% Commuting trips by walking or bicycling	7%	7%	6%	5%
% Commuting trips by other modes	1%	0%	3%	3%
Average commuting time by car (minutes)	29	28	31	29
Average commuting time by public transit	50	51	48	53
Average commuting time by walking or bicycling	17	17	17	18

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-6: Working Family Profile: San Francisco Bay Area

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location				
% living in central city PUMAs	19%	19%	21%	18%
% living in secondary central city PUMAs	6%	4%	3%	3%
% living in inner suburban PUMAs	26%	26%	30%	27%
% living in outer suburban PUMAs	33%	34%	32%	36%
% living in suburban fringe PUMAs	17%	16%	14%	16%
By Household Composition				
% married-couple with children	42%	53%	18%	25%
% married couple without children	10%	10%	26%	32%
% single-parent family	12%	14%	3%	5%
% single person households	11%	7%	33%	26%
% multiple families with children	10%	9%	2%	2%
% multiple families without children	16%	7%	19%	10%
By Housing Tenure				
% owner-occupants	36%	66%	51%	82%
% renters	64%	34%	49%	18%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,610	\$1,982	\$3,191	\$2,343
Renters: Median monthly rent	\$1,060	\$883	\$1,343	\$983
Owners: Median household income	\$75,447	\$73,300	\$168,209	\$131,000
Renters: Median household income	\$48,075	\$44,300	\$111,524	\$80,000
Owners: Median housing cost burden	0.50	0.36	0.30	0.24
Renters: Median housing cost burden	0.34	0.27	0.18	0.16
Commute Modes and Times				
% Commuting trips by car (drive-alone)	82%	85%	81%	83%
% Commuting trips by public transit	10%	9%	11%	8%
% Commuting trips by walking or bicycling	6%	5%	4%	3%
% Commuting trips by other modes	2%	1%	4%	6%
Average commuting time by car (minutes)	28	27	29	28
Average commuting time by public transit	45	45	44	47
Average commuting time by walking or bicycling	18	19	21	23

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix B-7: Working Family Profile: Metropolitan Washington, D.C./Baltimore

Component Counties:	Working Family Households		Upper-Income Households	
	Recent Mover HHs	Nonmover HHs	Recent Mover HHs	Nonmover HHs
By Location of Residence				
% living in primary or secondary central city PUMAs	21%	20%	25%	18%
% living in inner suburban PUMAs	33%	30%	31%	35%
% living in outer suburban PUMAs	34%	37%	35%	39%
% living in suburban fringe PUMAs	12%	13%	9%	8%
By Household Composition				
% married-couple with children	41%	53%	16%	25%
% married couple without children	9%	11%	28%	35%
% single-parent family	15%	16%	3%	5%
% single person households	13%	7%	37%	27%
% multiple families with children	9%	6%	1%	1%
% multiple families without children	13%	6%	14%	7%
By Housing Tenure				
% owner-occupants	45%	79%	60%	90%
% renters	55%	21%	40%	10%
Housing Costs and Burdens				
Owners: Median monthly housing cost	\$2,533	\$1,462	\$2,947	\$1,725
Renters: Median monthly rent	\$797	\$642	\$1,000	\$760
Owners: Median household income	\$66,338	\$63,200	\$133,214	\$111,200
Renters: Median household income	\$41,045	\$35,400	\$86,042	\$66,100
Owners: Median housing cost burden	0.55	0.31	0.35	0.20
Renters: Median housing cost burden	0.30	0.24	0.17	0.15
Commute Modes and Times				
% Commuting trips by car (drive-alone)	83%	88%	82%	86%
% Commuting trips by public transit	12%	9%	11%	8%
% Commuting trips by walking or bicycling	5%	3%	4%	2%
% Commuting trips by other modes	0%	1%	3%	4%
Average commuting time by car (minutes)	30	29	31	30
Average commuting time by public transit	45	46	44	48
Average commuting time by walking or bicycling	19	17	20	20

Source: 2000 PUMS data

Note: Housing costs and burdens include utilities.

Appendix C: Detailed Model Results for Non-centric Bid-Rent Models of Housing Cost vs. Travel Time

MODEL 1: Two-stage-least squares Regression:. Dependent Variable is TOTAL COMMUTE TIME (per Household)			
Independent Variables (Instrumented)	Coefficient	Standard Error	t-statistic
Housing cost per room	-0.0652688	0.0013447	-48.54
Per room housing cost * Lowest income third (0/1)	-0.0274545	0.0015252	-18
Per room housing cost * Middle income Third (0/1)	-0.0269927	0.0015949	-16.92
Independent Variables (Instrumental Variables)			
Number of drive-alone commuters in household	23.54835	0.022839	1031.06
Recent mover (0/1)	5.293998	0.0486444	108.83
Number of children in household	0.1904699	0.008033	23.71
Householder years of education	-0.0865218	0.0047546	-18.2
Householder age	-0.2099004	0.0024668	-85.09
Lowest income third (0/1)	5.040007	0.4901271	10.28
Middle income third (0/1)	7.671784	0.5343276	14.36
Single-parent household	-2.014429	0.0749231	-26.89
Married-couple/domestic partner family (0/1)	1.52048	0.0588865	25.82
Married-couple/domestic partner family with children (0/1)	1.547237	0.0640187	24.17
Multiple-family household without children (0/1)	0.55619	0.068039	8.17
Multiple-family household with children (0/1)	2.095318	0.0775692	27.01
PUMA population density	0.0002213	2.54E-06	87.11
Homeowner (0/1)	27.92657	0.2133903	130.87
Atlanta MSA location (0/1)		(dropped)	
Chicago MSA location (0/1)	-1.578733	0.0564666	-27.96
Dallas-Ft. Worth MSA location (0/1)	-1.475148	0.0652271	-22.62
Greater Los Angeles MSA location (0/1)	8.578741	0.1307146	65.63
Greater New York City MSA location (0/1)	1.695945	0.0724465	23.41
San Francisco Bay Area MSA location (0/1)	12.75768	0.1705577	74.8
Constant	30.37471	0.5131635	59.19
R-squared		0.03	
F-statistic		93,877	
Observations		8,870,834	

Appendix C: Detailed Model Results for Non-centric Bid-Rent Models of Housing Cost vs. Travel Time

MODEL II: Two-stage-least squares Regression: Dependent Variable is TOTAL AUTO-BASED COMMUTE TIME			
Independent Variables (Instrumented)	Coefficient	Standard Error	t-statistic
Housing cost per room	-0.0652688	0.0013447	-48.54
Per room housing cost * Lowest income third (0/1)	-0.0274545	0.0015252	-18
Per room housing cost * Middle income Third (0/1)	-0.0269927	0.0015949	-16.92
Independent Variables (Instrumental Variables)			
Number of drive-alone commuters in household	23.54835	0.022839	1031.06
Recent mover (0/1)	5.293998	0.0486444	108.83
Number of children in household	0.1904699	0.008033	23.71
Householder years of education	-0.0865218	0.0047546	-18.2
Householder age	-0.2099004	0.0024668	-85.09
Lowest income third (0/1)	5.040007	0.4901271	10.28
Middle income third (0/1)	7.671784	0.5343276	14.36
Single-parent household	-2.014429	0.0749231	-26.89
Married-couple/domestic partner family (0/1)	1.52048	0.0588865	25.82
Married-couple/domestic partner family with children (0/1)	1.547237	0.0640187	24.17
Multiple-family household without children (0/1)	0.55619	0.068039	8.17
Multiple-family household with children (0/1)	2.095318	0.0775692	27.01
PUMA population density	0.0003756	2.54E-06	147.61
Homeowner (0/1)	18.74434	0.192391	97.43
Atlanta MSA location (0/1)	-7.00488	0.1586158	-44.16
Chicago MSA location (0/1)	-10.0254	0.1407387	-71.23
Dallas-Ft. Worth MSA location (0/1)	-10.13717	0.1305382	-77.66
Greater Los Angeles MSA location (0/1)	-3.499303	0.0591283	-59.18
Greater New York City MSA location (0/1)	-9.66515	0.1145628	-84.37
San Francisco Bay Area MSA location (0/1)		(dropped)	
Constant	27.97988	0.5147328	54.36
R-squared		0.126	
F-statistic		72,308	
Observations		7,522,860	

Appendix C: Detailed Model Results for Non-centric Bid-Rent Models of Housing Cost vs. Travel Time

MODEL III: Two-stage-least square Regression: Dependent Variable is TOTAL TRANSIT COMMUTE TIME			
Independent Variables (Instrumented)	Coefficient	Standard Error	t-statistic
Housing cost per room	-0.0652688	0.0013447	-48.54
Per room housing cost * Lowest income third (0/1)	-0.0274545	0.0015252	-18
Per room housing cost * Middle income Third (0/1)	-0.0269927	0.0015949	-16.92
Independent Variables (Instrumental Variables)			
Number of drive-alone commuters in household	23.54835	0.022839	1031.06
Recent mover (0/1)	5.293998	0.0486444	108.83
Number of children in household	0.1904699	0.008033	23.71
Householder years of education	-0.0865218	0.0047546	-18.2
Householder age	-0.2099004	0.0024668	-85.09
Lowest income third (0/1)	5.040007	0.4901271	10.28
Middle income third (0/1)	7.671784	0.5343276	14.36
Single-parent household	-2.014429	0.0749231	-26.89
Married-couple/domestic partner family (0/1)	1.52048	0.0588865	25.82
Married-couple/domestic partner family with children (0/1)	1.547237	0.0640187	24.17
Multiple-family household without children (0/1)	0.55619	0.068039	8.17
PUMA population density	-0.0001733	2.56E-06	-67.73
Homeowner (0/1)	12.6064	0.3269066	38.56
Atlanta MSA location (0/1)	2.55023	0.2578928	9.89
Chicago MSA location (0/1)	4.97899	0.2091876	23.8
Dallas-Ft. Worth MSA location (0/1)		(dropped)	
Greater Los Angeles MSA location (0/1)	8.050011	0.2627537	30.64
Greater New York City MSA location (0/1)	13.18028	0.2124138	62.05
San Francisco Bay Area MSA location (0/1)	2.996632	0.2752819	10.89
Constant	-23.46649	0.6595619	-35.58
R-squared		0.43	
F-statistic		20,875	
Observations		1,593,250	

Appendix D-1: Atlanta Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	924,080	268,832	238,336	464,208	423,808	381,296
Log-likelihood Ratio	-92308.0	-29818.9	-28048.0	-54960.9	-46387.9	-40129.2
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	-0.3455266	0.6796916	0.2969138	-0.308259	1.87102	2.433477
CARPOOL/No vehicles owned/Central City PUMA	-3.299009	-0.0635144	0.4779275	-0.3179365	2.252152	0.1502818
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	-1.523046	1.196959	1.180063	0.9147454	2.842303	4.180843
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	-0.9183026	1.526989	-0.3246735	-0.2884683	2.920702	25.04987
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	-0.8792925	0.0472483	0.285194	0.327152	2.964328	2.09808
CARPOOL/No vehicles owned/Inner Suburb PUMA	-2.542075	-0.7106501	-0.0146995	0.0659507	1.397342	0.6730142
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	-3.614131	-1.111536	-0.9598469	-1.636096	0.9200607	2.492461
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-0.0261733	-0.4189207	-1.966378	0.1782178	2.073283	23.89916
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	-0.903019	0.8340519	0.4422996	0.2598274	2.776413	2.025278
CARPOOL/No vehicles owned/Outer Suburb PUMA	-7.96E+14	0.0363811	-1.81199	-2.491553	1.56913	-0.1117387
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-1.38E+15	-1.267656	-1.924793	-0.4157995	0.5378768	0.384077
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-0.9717818	-46.66231	-0.1886477	-0.4902531	1.59139	23.72576
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	-1.32336	-36.30131	-1.232061	-7.24E+16	2.91042	
CARPOOL/No vehicles owned/Fringe Suburb PUMA	-1.08E+15	-48.92185	-4489.951	-7.10E+16	1.026159	
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-1.92E+15	-1.277694	-4086.859	-1.245025	-0.2534722	
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	17.08809	19.99061	21.71031	7.375862	-0.2412363	
DRIVE ALONE/1 vehicle owned/Central City PUMA	17.36107	19.85723	22.34887	7.287601	3.059296	
CARPOOL/1 vehicle owned/Central City PUMA	17.06233	19.14379	20.35577	6.733805	2.326857	
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	15.15438	19.72192	19.74634	5.895328	-2.99E+16	
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	17.92866	21.30509	21.91734	7.38067	3.002339	
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	17.92295	20.36207	22.08527	7.772397	2.36724	
CARPOOL/1 vehicle owned/Inner Suburb PUMA	15.25834	17.92307	19.79648	5.820304	-0.6806733	
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	15.29155	-26.8342	19.32291	4.811884	-6.13E+16	
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	18.71886	20.92686	22.54659	7.558948	2.91146	
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	18.25186	20.83605	22.11478	7.204402	1.612387	
CARPOOL/1 vehicle owned/Outer Suburb PUMA	15.9245	-26.98918	-1442.949	3.994917	-0.9035794	
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	14.34609	-97.25105	19.09218	4.69483	-4.79E+16	
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	17.98578	19.68533	22.37001	5.898182	2.416049	
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	17.54671	19.96564	21.43896	6.885796	0.6446417	
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	-2.30E+15	-26.62658	-2461.97	4.386449	-1.54E+17	
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	-2.68E+15	-659.1511	18.68942	-2.62E+16	-1.12E+17	
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	4.883852	37.37775	17.00264	23.28464	16.19729	
DRIVE ALONE/2 vehicles owned/Central City PUMA	3.798297	34.9649	16.21317	21.02119	13.97746	26.9809
CARPOOL/2 vehicles owned/Central City PUMA	1.782964	34.90531	15.63535	20.91218	12.54319	29.33983
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	0.7309962	34.88075	15.36675	20.39681	-4.90E+17	50.86958
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	6.24683	38.52322	18.35301	23.54341	17.0199	31.45672
DRIVE ALONE/2 vehicles owned/Inner Suburb PUMA	4.842229	36.50366	17.30819	21.83644	14.25556	27.80791
CARPOOL/2 vehicles owned/Inner Suburb PUMA	2.89619	34.15616	12.98407	19.63883	11.92498	28.51182
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb PUMA	-9.08E+15	33.68547	15.30899	18.99543	-4.81E+17	49.10975
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb PUMA	6.920373	38.85593	18.21422	23.2154	17.03893	31.31247

Appendix D-1: Atlanta Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/2 vehicles owned/Outer Suburb PUMA	5.117389	37.11196	16.71466	21.41178	14.51442	26.94732
CARPOOL/2 vehicles owned/Outer Suburb PUMA	2.108428	33.52027	-5027.178	-3.22E+16	9.584179	26.45759
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb PUMA	0.6491804	-6.016336	-3790.901	-2.30E+16	12.23049	47.95293
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb PUMA	6.332283	38.44106	17.70061	21.60368	15.98222	30.21313
DRIVE ALONE/2 vehicles owned/Fringe Suburb PUMA	4.532631	36.62396	16.16769	19.26216	12.8775	26.52478
CARPOOL/2 vehicles owned/Fringe Suburb PUMA	1.641602	-4.610338	-9315.219	-5.16E+16	10.34778	-4.94E+17
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb PUMA	1.209211	-8.543485	14.42981	-3.97E+16	11.07877	-3.85E+17
DRIVE ALONE/Occupation-specific auto accessibility	8.86E-10	9.98E-10	4.80E-10	1.77E-10	-6.25E-10	6.16E-11
CARPOOL/Occupation-specific auto accessibility	5.59E-12	1.24E-09	2.05E-10	-1.03E-10	-6.90E-10	-6.53E-10
PUBLIC TRANSIT/Occupation-specific transit accessibility	-8.39E-09	1.02E-08	-5.68E-09	1.36E-09	-5.96E-09	-8.17E-09
BIKE-PED/Occupation-specific transit accessibility	-1.27E-08	-2.79E-08	-3.33E-08	-4.94E-09	-3.58E-08	-2.10E-08
DRIVE ALONE/Female trip-maker	-0.9272016	-5.455478	-0.4498204	0.6185452	-0.6715936	0.5864845
CARPOOL/Female trip-maker	-0.6024337	-5.774974	-0.5530405	-0.0093444	-0.0990499	0.0053537
PUBLIC TRANSIT/Female trip-maker	-0.6043362	-5.020709	-0.0327647	0.3584782	0.7704335	-0.2316979
BIKE-PED/Female trip-maker	0.0129749	-38.63801	-0.343895	-0.0089899	-1.037049	-0.5331555
DRIVE ALONE/45-64 year-old trip-maker	32.01336	15.47154	-2901.603	22.25642	31.20226	26.44761
CARPOOL/45-64 year-old trip-maker	-7.22E+14	15.45953	361.0967	22.957	-1.21E+16	-5.24E+16
PUBLIC TRANSIT/45-64 year-old trip-maker	-7.59E+14	-41.96595	-693.8873	-1.77E+15	-3.93E+15	29.62961
BIKE-PED/45-64 year-old trip-maker	-1.35E+15	-31.93267	-949.7977	-9.62E+15	-1.79E+16	-1.63E+15
DRIVE ALONE/45-64 year-old trip-maker	-0.3004013	0.5527745	-0.6912927	0.6141427	0.3429088	0.0295973
CARPOOL/45-64 year-old trip-maker	-0.6063138	0.8918972	-0.6941529	0.5823575	0.209153	0.089293
PUBLIC TRANSIT/45-64 year-old trip-maker	-0.5337111	-0.0333797	0.5775272	0.1090933	0.4673501	0.1832096
BIKE-PED/45-64 year-old trip-maker	0.1672357	0.0626332	-0.8384588	-0.0948069	-0.462351	0.164096
DRIVE ALONE/Single-worker households trip-maker						
CARPOOL/Single-worker households trip-maker						
PUBLIC TRANSIT/Single-worker households trip-maker						
BIKE-PED/Single-worker households trip-maker						
DRIVE ALONE/Disabled trip-maker	-0.3004013	0.5527745	-0.6912927	0.6141427	0.3429088	0.0295973
CARPOOL/Disabled trip-maker	-0.6063138	0.8918972	-0.6941529	0.5823575	0.209153	0.089293
PUBLIC TRANSIT/Disabled trip-maker	-0.5337111	-0.0333797	0.5775272	0.1090933	0.4673501	0.1832096
BIKE-PED/Disabled trip-maker	0.1672357	0.0626332	-0.8384588	-0.0948069	-0.462351	0.164096
Constants						
Central City PUMA Type (Level 2 model only)	0.9992829	1	0.6980905	2.11064	1.016348	1.000696
Inner Suburb PUMA Type (Level 2 model only)	1.000962	1	0.7046941	2.103053	0.9917828	0.9964206
Outer Suburb PUMA Type (Level 2 model only)	0.9975665	0.9999998	0.7039164	2.123766	0.9970638	1.003652
Fringe Suburb PUMA Type (Level 2 model only)	1.00672	1	0.7041555	2.218983	1.002258	0.9982256

Appendix D-1: Atlanta Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	0.1060001	0.2461574	-0.0949301	-0.6804201	-0.5517775	
CENTRAL CITY PUMA choice * Household Income	1.80E-06	-8.20E-06	4.74E-06	-4.71E-06	-4.17E-06	-0.0000235
INNER SUBURB PUMA choice * Household Income	2.80E-06	-2.27E-06	9.46E-06	9.65E-06	0.0000119	0.0000282
OUTER SUBURB PUMA choice * Household Income	2.29E-06	4.47E-06	3.47E-06	-6.56E-06	7.73E-06	2.51E-07
FRINGE SUBURB PUMA choice * Household Income	1.54E-06	4.68E-06	1.91E-06	9.47E-06	-5.47E-06	0.0000282
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.9824728	0.8003217	0.4010921	0.7481622	0.5877467	0.9634055
INNER SUBURB PUMA choice * Renter Dummy Variable	0.4868607	0.3319439	0.1626589	0.5456992	0.5488547	0.5110962
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.5632057	-0.2200846	-0.9686372	-0.6453258	-0.6167187	-0.4424794
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.8718363	-0.4658819	-0.6166343	-0.9304099	-0.7282426	-1.442735
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	-5458219	9.350497	-4137.44	0.9742543	5.890121	3.210202
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	4.005047	8.993443	8.941578	0.6998349	5.296993	2.860362
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	1.809797	-8.889485	9.583898	0.0444752	3.339965	0.3864976
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	2.786953	-8.685264	9.852124	-0.0646271	-4.22E+07	-6.45E+07
CENTRAL CITY PUMA choice * Persons in Household	-0.014856	-0.0204579	0.1153035	-0.0147116	-0.0046539	
INNER SUBURB PUMA choice * Persons in Household	0.014686	-0.0066537	0.0000585	-0.0768057	-0.148043	
OUTER SUBURB PUMA choice * Persons in Household	-0.0165688	0.0118203	-0.0251652	-0.0334255	0.0295369	
FRINGE SUBURB PUMA choice * Persons in Household	-0.017863	-0.0097451	-0.0277772	0.0555534	0.1060441	
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-0.4739263	-0.2922404	-0.0161755	-0.6489961	-0.8476171	-0.8007834
INNER SUBURB PUMA choice * White HH Head Dummy Variable	-0.4292515	-0.270689	0.9201466	-1.082997	-0.134084	-1.134024
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	0.648761	0.2982544	2.012082	-0.0683128	1.029337	-0.4002056
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	1.688268	0.5213578	3.43272	0.8136628	2.461054	1.50988
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	0.2904802	0.0776725	0.0247571	0.1285003	-0.3151829	0.1639874
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	0.2522155	-0.1030375	-0.6526122	0.4305806	0.3070145	0.3491202
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.146268	-0.094029	-0.6704126	-0.2239058	-0.1452261	-0.1167068
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	-0.4488398	-0.0817747	-1.268279	0.0414662	-0.0795557	-0.2859436
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	5.882594	0.9288109	44.60744	8.383957	2.636204	10.73543
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	-2920787	-0.3010008	-3271954	7.934958	3.338841	10.2054
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	4.526064	0.1974086	-4040538	-1964673	2.227645	-7.97E+07
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	4.76032	-0.0833725	-8834032	-5054445	-2.82E+07	-1.64E+08
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.2685831	0.1381966	-0.1508834	-0.4614857	-0.2278175	-0.2393973
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.3193209	-0.0424905	0.2240744	-0.2817663	-0.0942403	-0.1948516
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.5936269	0.1231773	0.5426065	-0.0961728	0.0018381	0.1359956
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.6667919	0.3095333	-0.5441877	0.255574	0.3198694	0.2786366
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.4409435	-0.0605344	0.2468623	0.1328086	-0.1207552	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.042782	-0.016567	-0.3691045	-0.2163105	0.1407354	-0.6109777
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.1134499	-0.167011	0.3792782	0.0942751	-0.1620186	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.0727612	0.0154679	0.0022608	0.2900867	0.2717128	
PUMA Average High School Test Score	-0.069033	-0.0202888	-0.1202675	-0.1028013	-0.0980579	-0.0794589
PUMA Average Occupation-specific Auto Accessibility	-8.73E-10	-1.08E-09	-9.69E-10	-1.42E-09	-3.80E-10	-7.69E-10
PUMA Average Auto Accessibility	-5.73E-10	-6.03E-11	-9.63E-10	-6.46E-10	-4.71E-10	-4.19E-10

Appendix D-2: Chicago Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	1863060	462960	421760	712200	740500	742640
Log-likelihood Ratio	-182656	-48656	-46470	-78485	-75074	-73047
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	0.4678265	-0.4467158	0.0160527	-0.1503506	1.897521	0.461511
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	1.796498	1.452408	-0.3841385	-0.7770593	1.874922	0.4647701
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	0.170017	0.3586513	-0.5442937	1.029481	3.15999	3.093739
DRIVE ALONE/No vehicles owned/Secondary City PUMA	-1.087059	-0.6311873	-1.26685	-1.514609	2.163475	-0.4315255
CARPOOL/No vehicles owned/Secondary City PUMA	0.6141601	-0.3878857	-2.416232	-1.790038	-1.625228	0.9520282
PUBLIC TRANSIT/No vehicles owned/Secondary City PUMA	-1.44E+14	-4.87E+16	-2.275167	-1.12E+23	-0.9631912	-1.198731
BIKE-PEDESTRIAN/No vehicles owned/Secondary City PUMA	-0.3703182	-0.1720904	-2.05E+50	-1.01E+21	-1.800078	
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	0.7085181	0.4196155	0.197511	-0.7414935	-2.094759	-0.2575559
CARPOOL/No vehicles owned/Inner Suburb PUMA	0.0713783	-0.3139544	-0.2543429	-1.011682	2.278406	0.0568343
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	1.515796	0.2356881	0.6180602	-0.1224722	2.107855	1.660162
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	0.3621381	-2.56E+16	-2.826616	-0.9302403	3.166873	-1.569324
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	0.7881751	-0.1885964	-0.8947943	-1.033818	1.513516	0.2330169
CARPOOL/No vehicles owned/Outer Suburb PUMA	-0.0448018	-1.525055	-0.9863342	-1.086596	1.448427	-0.293035
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-0.0372023	-0.1050399	-1.901357	-2.170487	0.4557919	0.7854326
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-0.2998077	-0.5507635	-1.71E+21	-1.81307	0.4781953	-1.383153
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	1.288783	0.6133391	0.1399617	-0.9759527	-0.8223683	
CARPOOL/No vehicles owned/Fringe Suburb PUMA	0.1545243	-2.70E+16	-0.3945035	-2.714928	-1.703022	
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-9.37E+13	-2.30E+16	-5.05E+20	-2.435745	-1.165901	0.6632344
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	-0.210697	-2.03E+16	-2.17E+20	-1.399878	-2.321493	-1.307804
DRIVE ALONE/1 vehicle owned/Central City PUMA	9.544308	20.31327	16.20027	22.35968	-2.323157	1.52632
CARPOOL/1 vehicle owned/Central City PUMA	8.96112	19.8963	15.44225	21.71976	1.481708	0.3298168
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	9.048103	20.11803	15.00018	21.73662	1.481461	1.253903
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	7.543477	18.8662	14.95914	20.60775	-0.1147172	-1.865547
DRIVE ALONE/1 vehicle owned/Secondary City PUMA	6.462727	14.08182	15.88978	21.7968	0.0124156	0.6919706
CARPOOL/1 vehicle owned/Secondary City PUMA	6.244979	13.11983	16.60742	21.52443	-0.4322927	-0.4336525
PUBLIC TRANSIT/1 vehicle owned/Secondary City PUMA	5.533545	-1.59E+16	14.44083	-4.04E+17	-3.12E+17	-2.230473
BIKE-PEDESTRIAN/1 vehicle owned/Secondary City PUMA	-1.31E+14	-1.43E+16	-798.1293	-3.37E+17	-3.67E+17	-3.006014
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	8.802188	17.3076	15.62206	22.15346	1.83135	0.8116952
CARPOOL/1 vehicle owned/Inner Suburb PUMA	8.307717	16.43114	14.76942	21.82917	1.036902	-1.242022
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	7.327305	16.61183	14.69303	21.01471	0.5243486	-0.395196
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	4.972872	15.66012	14.28864	20.86584	-0.4000086	-4.192003
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	7.666018	16.00668	16.32244	20.70837	1.886884	1.077269
CARPOOL/1 vehicle owned/Outer Suburb PUMA	7.188902	15.33106	15.81655	20.60377	1.514508	-1.100152
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	5.725011	14.87876	14.07512	18.29936	0.4204093	-1.579029
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	5.666168	13.59577	13.59389	18.92775	0.6642114	-3.612293
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	7.974752	16.17135	16.23155	17.72455	1.784526	0.9485588
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	7.448394	15.91963	15.53472	17.72844	0.6324204	-0.8102798
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	5.161065	14.35323	13.25929	14.41417	-1.529199	-1.735095
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	6.015367	14.62309	-1.93E+22	16.59033	-2.48E+17	-4.719383
DRIVE ALONE/2 vehicles owned/Central City PUMA	4.550647	5.211995	3.804851	9.387627	26.81218	
CARPOOL/2 vehicles owned/Central City PUMA	3.754383	3.529826	2.7445	7.608326	26.00087	
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	2.681665	3.975974	1.993769	8.179068	24.71177	
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	2.20297	2.766636	1.282525	7.335137	24.19803	

Appendix D-2: Chicago Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Secondary City PUMA	3.603437	3.942532	3.95383	10.07859	26.64497	
CARPOOL/2 vehicles owned/Secondary City PUMA	2.294531	1.845176	2.510183	8.47752	24.90145	
PUBLIC TRANSIT/2 vehicles owned/Secondary City PUMA	0.1618862	0.6676567	0.7019126	-4.69E+18	-3.36E+17	
BIKE-PEDESTRIAN/2 vehicles owned/Secondary City PUMA	0.4931875	-5.36E+16	0.0906704	6.907362	-1.54E+15	
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	4.876452	4.565082	4.257845	9.817187	27.76108	
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	3.595204	2.635713	3.038597	8.417262	26.57909	
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	2.341577	2.796263	2.384009	7.936472	25.86098	
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	0.6139394	0.457586	-2.23E+16	6.505468	24.94352	
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	4.850944	4.664696	4.527783	10.2546	28.19078	
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	2.783643	2.21579	3.111504	7.948034	26.08124	
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	2.472467	1.98676	1.644384	7.456013	25.67336	
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	0.6019754	0.9448828	0.3779717	6.054479	24.50289	
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	5.276822	4.754959	4.985069	9.465766	28.41447	
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	2.805955	2.993622	3.572098	7.754289	26.19494	
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	2.349075	1.499161	0.2224941	5.704811	24.10558	
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	0.8957034	1.060806	0.7048789	6.679795	25.1073	
DRIVE ALONE/Occupation-specific auto accessibility	0.0000191	0.0000165	0.0000159	9.92E-06	8.28E-06	0.000011
CARPOOL/Occupation-specific auto accessibility	0.0000179	0.0000173	0.000015	8.54E-06	5.10E-06	0.0000125
PUBLIC TRANSIT/Occupation-specific transit accessibility	0.0002257	0.0001645	0.0001939	0.0001432	0.0001462	0.0001257
BIKE-PED/Occupation-specific transit accessibility	0.0001429	0.0001669	-0.0000261	0.000109	0.0000863	0.0000172
DRIVE ALONE/Female trip-maker	-0.6703375	-0.029077	0.0660503	0.1936465	-0.1744595	0.3940482
CARPOOL/Female trip-maker	-0.4834463	0.0472275	-0.0542406	0.0210239	0.086635	-0.0297133
PUBLIC TRANSIT/Female trip-maker	0.1992744	-0.0000959	0.6561145	0.6074701	0.1050598	0.4480086
BIKE-PED/Female trip-maker	-0.2293848	0.0514046	0.5870551	0.1436087	-0.7723755	0.3808674
DRIVE ALONE/45-64 year-old trip-maker	29.8252	-0.1076735	17.14739	14.18439	16.18868	21.58823
CARPOOL/45-64 year-old trip-maker	-2.50E+13	-1.134579	18.25568	-2.10E+16	16.21919	-7.61E+15
PUBLIC TRANSIT/45-64 year-old trip-maker	-2.94E+13	-1.574368	-1.63E+21	16.57842	-3.56E+16	22.15679
BIKE-PED/45-64 year-old trip-maker	-4.14E+13	0.8568785	-2.85E+12	-1.72E+16	-3.60E+16	-1.57E+15
DRIVE ALONE/45-64 year-old trip-maker	-0.3316224	0.5228071	0.1944746	0.7193769	0.4267409	-0.3725659
CARPOOL/45-64 year-old trip-maker	-0.1203283	0.2849376	-0.2872484	0.3224451	0.0721677	0.0571557
PUBLIC TRANSIT/45-64 year-old trip-maker	-0.2710259	0.4673403	-0.2234483	0.0364067	0.3119076	-0.5656765
BIKE-PED/45-64 year-old trip-maker	0.1021823	-0.2362048	0.9787328	0.0383407	0.2512992	0.0586138
DRIVE ALONE/Single-worker households trip-maker	0.0670583	-0.9233959	-0.0336126	0.6109578	0.1398995	1.053035
CARPOOL/Single-worker households trip-maker	-0.2001644	-0.9434379	0.0555449	0.5027991	-0.2341325	
PUBLIC TRANSIT/Single-worker households trip-maker	0.2132319	-0.9765405	-0.1832877	0.7511472	0.0989455	0.5056166
BIKE-PED/Single-worker households trip-maker	0.389555	-0.2445503	0.8505269	0.9294709	0.0406167	2.670666
DRIVE ALONE/Disabled trip-maker	-0.3417288	-0.4066774	-0.4507885	-0.5239087	-0.1363955	0.022518
CARPOOL/Disabled trip-maker	-0.0486589	-0.5789998	-0.2436723	-0.1953954	-0.1373629	0.5856575
PUBLIC TRANSIT/Disabled trip-maker	-0.7262548	-0.0955319	-0.1731665	-1.77641	-0.0132691	0.396552
BIKE-PED/Disabled trip-maker	-0.6687154	-1.577434	-0.759744	0.1680608	-0.5748785	0.3701778
Constants						
Central City PUMA Type (Level 2 model only)	0.8328022	1.783251	0.616107	0.7395462	0.4208075	2.778024
Secondary City PUMA Type (Level 2 model only)	1.072441	2.498885	0.6132218	0.7432085	0.4209471	4.000065
Inner Suburb PUMA Type (Level 2 model only)	0.9389743	2.080546	0.684182	0.7172291	0.4269529	3.611635
Outer Suburb PUMA Type (Level 2 model only)	1.032932	2.223938	0.6477254	0.7704036	0.4397789	3.486442
Fringe Suburb PUMA Type (Level 2 model only)	1.015744	2.188725	0.6611938	0.9064185	0.4353387	3.71523
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	1.090986	0.8354346	0.5261959	0.8542434	0.2027301	0.3436669
FRINGE SUBURB PUMA choice	-0.441862	-0.3213828	-0.0758073	-1.929305	0.075174	

Appendix D-2: Chicago Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Household Income	-5.22E-06	-1.45E-06	-4.63E-06	1.23E-06	-2.82E-06	-3.93E-06
SECONDARY CITY PUMA choice * Household Income	2.34E-06	3.53E-06	-8.14E-06	-3.88E-06	-6.37E-06	3.26E-06
INNER SUBURB PUMA choice * Household Income	-6.54E-06	0.0000123	-8.37E-06	4.97E-06	1.87E-06	0.000018
OUTER SUBURB PUMA choice * Household Income	5.55E-06	0.0000101	4.60E-06	8.09E-06	9.85E-06	0.0000264
FRINGE SUBURB PUMA choice * Household Income	6.20E-06	0.0000103	5.87E-06	-2.73E-06	-3.39E-06	5.65E-06
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.9823315	1.276051	0.3841214	1.345167	0.229968	1.010676
SECONDARY CITY PUMA choice * Renter Dummy Variable	-0.1021292	-0.4193524	-0.6593286	-0.5073759	0.2108781	-0.7557199
INNER SUBURB PUMA choice * Renter Dummy Variable	-0.3378536	-0.4393809	-0.2002283	0.3997799	-0.5108063	0.120233
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.0835811	-0.268698	-0.0194901	-0.3748867	-0.1659141	-0.3463975
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.4138227	-0.8123554	-0.0672366	-0.3671815	-0.5132255	-0.6566837
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	0.0346859	1.452377	6.045775	-0.1019986	0.2970763	0.5378115
SECONDARY CITY PUMA choice * Condo Owner Dummy Variable	0.2380173	-0.7959219	4.863225	0.1829977	-0.1460306	-0.2853516
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	-0.2310924	-0.4820356	-6400369	-0.4812321	-2.280217	-0.2553924
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	-0.3226533	0.2077155	4.485764	0.0453423	0.4292462	0.2456245
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-0.7396718	-0.9231157	2.676489	-1.184063	0.2966779	-0.7341128
CENTRAL CITY PUMA choice * Persons in Household	0.0219131	0.093541	0.0501527	0.0647331	-0.0311299	
SECONDARY CITY PUMA choice * Persons in Household	0.0394376	0.0262202	0.1567249	0.1376163	0.0711357	
INNER SUBURB PUMA choice * Persons in Household	0.0230592	0.1161852	0.0114371	-0.0164667	0.0684867	
OUTER SUBURB PUMA choice * Persons in Household	-0.044924	-0.0876415	-0.0002216	-0.1150493	-0.1585291	
FRINGE SUBURB PUMA choice * Persons in Household	-0.0188745	-0.0108764	-0.0605586	0.2171336	-0.2296983	-0.126931
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-0.5756257	-0.0186998	-0.8315472	0.5947163	-0.7738144	0.190062
SECONDARY CITY PUMA choice * White HH Head Dummy Variable	0.0620414	0.4875343	0.0376269	-0.1654977	-0.2314923	-0.1632311
INNER SUBURB PUMA choice * White HH Head Dummy Variable	-0.4868944	-0.3929684	-0.6461792	-0.2048394	-0.8624201	-0.1081969
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	0.3900804	0.2704859	0.5629676	0.2994295	0.4560271	0.6532018
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	1.346548	1.087316	1.613631	1.170445	2.098748	1.433229
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	-0.0894256	0.3025161	0.0790594	0.2917593	-0.1751772	0.3500079
SECONDARY CITY PUMA choice * Female HH Head Dummy Variable	0.1944395	-0.0141544	0.1198483	-0.2438246	0.3777875	-0.0200265
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	0.0633362	0.3375573	0.2385975	0.0503129	0.1430115	0.0755608
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.0700524	-0.201458	-0.1393422	-0.100684	0.3213711	-0.0844328
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	-0.2367411	-0.12715	-0.4175917	0.0541915	0.3820158	0.0247173
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	10.28361	0.6681984	-1.19E+07	8.994706	0.5388333	14.62186
SECONDARY CITY PUMA choice * Senior HH Head Dummy Variable	2.994077	-0.2545513	10.00053	-1.49E+08	1.19238	-4.39E+08
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	5.031368	-0.2331161	-5361565	-1.41E+07	0.1211626	-1.05E+08
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	2.174761	0.2724174	8.3368	10.49224	-2.01545	1.30101
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	-1503125	-0.6692607	-4994994	-1.76E+07	-1.94482	-3.621848
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.672041	0.3737858	-0.0430785	-0.428948	0.4240194	-0.4313165
SECONDARY CITY PUMA choice * Age 45-64 HH Head Dummy Variable	-0.6688297	-0.3724909	-0.1480339	0.129748	-0.040404	0.3405731
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.1205953	-0.2061251	-0.2323123	0.2877459	0.2216159	0.5419556
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.0246361	-0.0988989	-0.1201956	-0.4753237	-0.1602438	0.1593288
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1098262	0.0833194	-0.8464911	-0.5522282	-0.3917757	0.1428326
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.0429834	0.0847976	-0.2089077	-0.1216365	0.1080182	
SECONDARY CITY PUMA choice * Single-worker HH Dummy Variable	0.2330642	-0.1075694	0.1707238	-0.0464297	-0.1739973	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.0263838	0.3295639	0.4491154	0.2633218	0.1070525	
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	0.0392274	-0.2493016	-0.2365884	-0.4711307	-0.0163102	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	0.061009	-0.5872539	-0.4574489	-0.774071	0.1253695	
PUMA Average High School Test Score	0.0234618	0.0565555	-0.0052792	0.0617778	0.0033703	0.0313942
PUMA Average Occupation-specific Auto Accessibility	-6.25E-06	-5.24E-06	0.0000183	-0.0000122	0.0000129	-0.0000119
PUMA Average Auto Accessibility	5.40E-06	2.87E-06	-1.43E-08	-1.02E-06	7.57E-06	1.64E-07

Appendix D-3: Dallas-Ft. Worth Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	10803500	484700	385020	630540	724600	711740
Log-likelihood Ratio	-1423958	-40480	-34318	-57559	-59654	-56111
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	-14.80512	0.3741942	0.6243302	-0.1463024	21.92711	-0.1923567
CARPOOL/No vehicles owned/Central City PUMA	23.21281	1.445146	1.71477	1.176835	23.16016	24.71128
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	21.38423	-0.3712926	1.106155	0.3544855	22.99215	1.059104
DRIVE ALONE/No vehicles owned/Secondary City PUMA	-14.66494	0.77172	0.7318941	-5.10E+17	-5.60E+13	-0.4983149
CARPOOL/No vehicles owned/Secondary City PUMA	-14.44254	-7.56E+17	-17.39281	0.8846688	20.50984	0.3157456
PUBLIC TRANSIT/No vehicles owned/Secondary City PUMA	-15.2577	-6.36E+17	-17.90124	0.4344414	21.28887	23.05382
BIKE-PEDESTRIAN/No vehicles owned/Secondary City PUMA	-13.88086	-4.25E+17	-17.27418	0.5207028	19.56971	0.1606249
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	23.49427	1.627279	1.463884	0.5235669	-1.90E+14	0.611301
CARPOOL/No vehicles owned/Inner Suburb PUMA	23.43601	1.063556	1.991102	1.264178	24.11201	1.116934
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	21.54704	0.8233934	1.139263	0.1137046	24.53267	24.09613
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-13.93742	-0.5513871	1.842578	0.0823871	23.44909	1.335518
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	23.55714	1.051145	-17.4452	0.7853076	22.37933	0.5956625
CARPOOL/No vehicles owned/Outer Suburb PUMA	22.31582	0.3948279	1.354001	0.8183429	23.31509	0.2238393
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-15.182	0.1012311	0.383244	-0.4808823	23.548	23.41615
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	22.11214	-1.108675	0.8905013	-0.487064	21.78024	0.8382739
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	22.31732	0.0491967	0.7977452	0.7000205	20.79319	-2.212134
CARPOOL/No vehicles owned/Fringe Suburb PUMA	21.86025	0.8268973	1.143919	0.9132219	21.90871	
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-15.15837	-4.31E+17	-17.86133	-3.72E+17	22.13539	
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	-14.20535	0.0752233	-17.401	-2.32777	-1.83E+14	
DRIVE ALONE/1 vehicle owned/Central City PUMA	17.29676	17.28167	11.95644	17.94552	21.23717	3.477992
CARPOOL/1 vehicle owned/Central City PUMA	18.74914	17.51745	12.14341	19.17947	24.82997	2.155779
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	15.67847	15.46737	10.72267	16.67212	25.32712	24.03735
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	17.83818	-7.55E+24	11.13972	-6.06E+16	21.36136	2.203521
DRIVE ALONE/1 vehicle owned/Secondary City PUMA	15.54367	14.78698	10.65329	17.68629	22.30703	1.099562
CARPOOL/1 vehicle owned/Secondary City PUMA	17.35329	15.43858	11.37501	18.27655	23.16363	-0.5285795
PUBLIC TRANSIT/1 vehicle owned/Secondary City PUMA	-18.86841	-1.77E+30	-7.510833	-7.60E+16	21.29364	-1.57E+17
BIKE-PEDESTRIAN/1 vehicle owned/Secondary City PUMA	-18.22978	-5.91E+28	10.95027	-1.26E+17	-1.09E+15	-0.134012
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	19.79107	18.2233	12.75628	19.22325	26.75368	4.233076
CARPOOL/1 vehicle owned/Inner Suburb PUMA	19.67723	18.06864	12.86402	19.34218	26.35088	2.348053
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	16.31092	14.6004	10.24485	17.29471	23.65087	24.6645
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	17.29819	15.00473	11.24774	17.34792	-5.53E+13	1.940534
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	19.52527	17.61211	12.53374	18.91475	25.9426	3.823005
CARPOOL/1 vehicle owned/Outer Suburb PUMA	19.04063	17.28925	12.5811	18.81819	22.76623	2.224251
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	-18.85516	-1.12E+29	-7.387017	-5.59E+16	22.56512	23.45482
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	-18.48914	13.84622	10.85622	17.42776	-5.28E+14	1.525273
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	18.66925	16.93944	12.08434	18.43991	24.24921	2.299407
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	18.34765	16.20393	11.85726	18.48533	22.8959	0.8611336
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	-18.83263	-4.82E+51	-7.39696	-8.16E+16	-8.53E+14	-1.05E+17
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	-18.5574	-3.03E+91	-6.966719	16.33499	-6.93E+13	-0.3546101
DRIVE ALONE/2 vehicles owned/Central City PUMA	18.64777	18.38542	11.49321	37.66173	9.738368	
CARPOOL/2 vehicles owned/Central City PUMA	17.79344	17.06918	11.13488	36.84174	8.850277	
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	14.61772	-3.98E+77	-8.700669	34.7614	7.488202	
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	15.92857	13.36768	-7.391006	35.79212	3.845508	

Appendix D-3: Dallas-Ft. Worth Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Secondary City PUMA	17.32729	16.7989	11.03007	36.16642	8.382962	
CARPOOL/2 vehicles owned/Secondary City PUMA	15.91476	15.76089	10.3582	35.26975	6.512645	
PUBLIC TRANSIT/2 vehicles owned/Secondary City PUMA	-19.63362	-3.20E+153	-8.395069	-6.38E+73	5.680326	
BIKE-PEDESTRIAN/2 vehicles owned/Secondary City PUMA	-18.53038	13.51318	-7.571619	-8.46E+50	5.161193	
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	20.85238	19.65576	12.54561	39.09707	10.70974	
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	19.52172	18.0817	11.66435	37.38792	9.687587	
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	14.85024	14.56288	9.440878	33.79396	6.447065	
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	16.22474	14.11835	-7.696988	35.69148	5.961973	
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	20.97288	19.55113	12.31137	38.54883	10.24696	
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	19.13532	17.27254	11.47731	36.63849	8.727458	
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	14.90125	-3.98E+34	-8.386329	-2.16E+16	5.473263	
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	16.82415	12.95848	10.2029	35.57589	5.608549	
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	20.00638	18.29875	11.92957	37.62057	9.506684	
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	18.58662	16.72367	11.04929	35.79288	8.331238	
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	-19.55338	-2.23E+29	-8.360285	-2.70E+15	-1.09E+16	
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	14.79748	12.13468	-7.774833	33.85104	4.487321	
DRIVE ALONE/Occupation-specific auto accessibility	0.0008089	-0.0003736	0.0023745	0.0002648	0.0001284	0.0007631
CARPOOL/Occupation-specific auto accessibility	-0.0002369	-0.0004611	0.0015939	-0.0004041	-0.0002234	0.0001177
PUBLIC TRANSIT/Occupation-specific transit accessibility	0.0113355	-0.0094782	0.0325843	0.001868	-0.0119956	0.0097522
BIKE-PED/Occupation-specific transit accessibility	-0.0634041	-0.0322198	-0.0341275	-0.0333987	0.0243979	-0.0177198
DRIVE ALONE/Female trip-maker	-1.218118	-1.86906	-0.1568026	0.242225	-0.6517019	-0.0438801
CARPOOL/Female trip-maker	-0.7423384	-1.954618	-0.30877	0.0094954	-0.9515568	-0.3213483
PUBLIC TRANSIT/Female trip-maker	0.2558848	-0.8917727	0.0364097	0.0973281	0.0438238	0.2425808
BIKE-PED/Female trip-maker	-0.2866574	0.1826559	-0.4980079	-0.1419529	-1.264123	-0.8780449
DRIVE ALONE/45-64 year-old trip-maker	1.016066	19.23023	14.85605	7.705808	17.21175	15.45724
CARPOOL/45-64 year-old trip-maker	1.609685	-1.51E+16	-4.530704	-8.15E+15	-1.26E+14	-3.19E+16
PUBLIC TRANSIT/45-64 year-old trip-maker	-30.91869	-8.01E+11	-0.6896228	-1.01E+13	-5.17E+14	-1.67E+16
BIKE-PED/45-64 year-old trip-maker	4.554755	-7.04E+26	-3.011545	-5.82E+14	19.42957	18.91518
DRIVE ALONE/45-64 year-old trip-maker	0.8530291	-0.0336503	-0.7607307	-0.5425007	0.281342	-0.063708
CARPOOL/45-64 year-old trip-maker	0.5987367	-0.4321429	-1.20532	-1.070994	-0.0528082	-0.2257811
PUBLIC TRANSIT/45-64 year-old trip-maker	-0.1621849	-0.1631478	0.0954728	-0.0656916	-0.0342906	0.1798062
BIKE-PED/45-64 year-old trip-maker	1.260757	0.1941942	-0.9905957	-0.7617985	0.5174659	-0.8410343
DRIVE ALONE/Single-worker households trip-maker	-0.2914036	-0.3172922	-0.3696129	-0.2804972	0.3502301	0.7643031
CARPOOL/Single-worker households trip-maker	-0.258978	-0.6403386	-0.3384806	-0.0872855	0.0456266	
PUBLIC TRANSIT/Single-worker households trip-maker	0.3442725	0.3393642	0.0930297	0.0014717	0.0678521	-23.668
BIKE-PED/Single-worker households trip-maker	-0.8135004	0.6592918	-0.424655	0.1878323	1.195706	-0.0672755
DRIVE ALONE/Disabled trip-maker	-0.6703529	-1.726668	0.069582	-0.6765794	-0.5635004	-2.076429
CARPOOL/Disabled trip-maker	-0.3696538	-1.464981	0.1793909	-0.4155204	-0.2604506	-1.938307
PUBLIC TRANSIT/Disabled trip-maker	0.6682821	-0.5007785	-0.0558872	0.7200468	-0.2707265	-2.132469
BIKE-PED/Disabled trip-maker	-34.64357	-0.0580622	0.0416899	-1.156608	-0.6309892	-2.405246
Constants						
Central City PUMA Type (Level 2 model only)	0.9640683	1.003696	0.9350803	3.632078	4.1658	0.7150188
Secondary City PUMA Type (Level 2 model only)	1.035901	1.027704	1.026032	3.787448	4.433387	1.827738
Inner Suburb PUMA Type (Level 2 model only)	0.9539292	0.9986	0.9557471	3.549405	3.94736	1.019706
Outer Suburb PUMA Type (Level 2 model only)	0.959608	0.9934355	1.002128	3.588084	4.10661	1.078078
Fringe Suburb PUMA Type (Level 2 model only)	0.9962771	1.015889	1.014501	3.64538	4.311041	1.141425
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	0.5860963	0.1691155	1.312691	0.690693	-0.1560986	0.1141984
FRINGE SUBURB PUMA choice	-0.0495506	0.2740907	0.5879362	-1.214374	0.7268058	0.4760674

Appendix D-3: Dallas-Ft. Worth Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Household Income	-6.85E-06	-0.0000245	0.0000177	6.64E-06	-6.92E-06	0.0000351
SECONDARY CITY PUMA choice * Household Income	-1.63E-06	3.56E-06	0.0000114	-7.17E-06	-0.000016	-0.000084
INNER SUBURB PUMA choice * Household Income	0.0000155	0.0000125	0.0000225	0.0000112	7.44E-06	0.0000182
OUTER SUBURB PUMA choice * Household Income	0.0000212	1.64E-06	0.0000166	3.07E-06	7.40E-06	7.53E-07
FRINGE SUBURB PUMA choice * Household Income	5.96E-06	-0.000013	3.07E-06	-0.0000152	-0.0000166	-0.0000336
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.2806574	0.2692841	0.0810271	1.488023	0.0752392	1.051882
SECONDARY CITY PUMA choice * Renter Dummy Variable	-0.1150016	0.244736	-1.312922	0.4231391	0.6612976	-0.0410492
INNER SUBURB PUMA choice * Renter Dummy Variable	0.0673102	-0.1965647	-0.4428079	0.6648142	0.1083373	0.2829607
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.7069169	-0.7639359	-0.9976444	0.0164955	-0.7583074	-0.7786835
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.5105557	-1.561332	-1.638748	-0.7137596	-0.8687145	-0.8458831
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	-7.496498	9.869914	0.4536858	-1736.56	6.950994	6.177383
SECONDARY CITY PUMA choice * Condo Owner Dummy Variable	-6.944103	-2.82E+08	1.032744	-13049.48	-197990.7	-344082.2
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	7.642776	9.383502	32.3026	381.5681	5.948627	3.748301
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	6.472267	7.233846	-0.2726896	-607.4642	4.570642	2.115366
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-8.748496	-5.61E+07	0.3484227	-2104.874	5.544001	-116932
CENTRAL CITY PUMA choice * Persons in Household	0.1150796	0.0092076	-0.0265218	0.1352798	-0.0690797	
SECONDARY CITY PUMA choice * Persons in Household	0.0146755	0.245248	0.0205497	-0.2713699	0.2681263	
INNER SUBURB PUMA choice * Persons in Household	-0.0730126	-0.20213	-0.2659815	-0.1410103	-0.1006316	
OUTER SUBURB PUMA choice * Persons in Household	-0.0494685	-0.0717175	-0.1709799	-0.0598567	-0.182748	
FRINGE SUBURB PUMA choice * Persons in Household	0.0045076	0.3371045	-0.0920466	0.2792749	0.0620833	
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-0.3018584	-0.3278194	-1.772861	-0.5041352	-1.352786	-0.6195415
SECONDARY CITY PUMA choice * White HH Head Dummy Variable	-0.1827298	-0.3096256	-1.41376	-1.023561	-1.697055	-0.4390196
INNER SUBURB PUMA choice * White HH Head Dummy Variable	0.1164906	-0.183303	-0.3350851	0.1303487	-0.1604515	-0.4860959
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	1.091104	0.7425611	0.6683005	0.9686443	0.9014935	0.3043865
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	1.448841	1.067024	1.365719	1.866431	1.765354	0.7770695
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	-0.1899614	-0.0832078	-0.4339561	-0.1939333	-0.8148156	-0.0088535
SECONDARY CITY PUMA choice * Female HH Head Dummy Variable	0.0612821	0.3515315	0.2601038	-0.3376314	0.8951512	-0.0304883
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.1722	-0.1771862	-0.2184568	0.0336011	-0.3832004	-0.016474
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.3458949	-0.2298995	0.0474039	0.2431788	-0.3250247	0.3445875
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	-0.074235	-0.2196017	-0.2151639	-0.3286189	-0.238021	-0.0438424
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	-9.005427	-1.02E+08	-0.6694657	-3511.836	1.042938	6.467351
SECONDARY CITY PUMA choice * Senior HH Head Dummy Variable	-8.239301	-4.09E+08	0.4887591	-18680.87	-152705	-297322.5
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	5.833737	9.135926	30.67299	534.9612	2.635587	0.8973545
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	6.701442	7.992235	-1.473489	-835.2327	-10785.36	-1.83494
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	-9.388899	9.195673	-0.1930942	-2736.575	-2.901751	-1.856226
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1880678	-0.2691209	-0.2941165	0.435728	-0.1796308	-0.2614402
SECONDARY CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.0572174	0.3409289	0.7737619	1.209457	0.0940588	0.3622003
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.278707	-0.2320073	-0.2787411	-0.1399295	0.0712986	0.1707805
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.4496276	0.1088072	-0.2449308	-1.092294	-0.0179495	-0.0512005
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.229635	0.2300819	-0.120236	0.5824189	-0.1722977	0.4928922
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.0498049	0.2225258	-0.1239966	0.2630243	0.0828987	
SECONDARY CITY PUMA choice * Single-worker HH Dummy Variable	0.0759819	-0.3135179	0.6973821	-0.1056946	0.8456245	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.1350166	0.1687916	-0.1386221	0.0499364	-0.1696036	
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.0312194	-0.1645698	-0.5287685	0.1779171	-0.1797162	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.18064	0.0634138	-0.4022212	0.8629608	-0.701127	
PUMA Average High School Test Score	0.0332389	0.0838164	0.0794738	0.0138977	0.059935	0.0261019
PUMA Average Occupation-specific Auto Accessibility	0.0001927	0.0011877	-0.0003469	0.0002527	0.0006988	-0.0005122
PUMA Average Auto Accessibility	0.000279	0.0003522	0.0002944	-0.0003193	0.000323	7.18E-06

Appendix D-4: Greater Los Angeles Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	3372660	602180	1014720	1063940	1139740	785020
Log-likelihood Ratio	-349697	-631340	-112595	-120340	-121128	-80720
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	-1.060977	-0.0731848	0.4240087	-1.157577	0.6260547	
CARPOOL/No vehicles owned/Central City PUMA	-0.5914119	-0.8147521	0.2502772	-1.679939	0.3771153	
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	-0.3074024	1.092368	1.365939	-1.194629	2.307102	
DRIVE ALONE/No vehicles owned/Secondary City PUMA	-0.6496916	-1.619441	-0.4927458	-1.801436	-0.5298457	-0.4673291
CARPOOL/No vehicles owned/Secondary City PUMA	-0.9681886	-4.28E+17	-0.7658957	-1.990957	-0.6177621	-0.7616208
PUBLIC TRANSIT/No vehicles owned/Secondary City PUMA	-1.33E+15	-3.46E+17	-0.8734132	-5.26E+18	-0.222146	-1.498241
BIKE-PEDESTRIAN/No vehicles owned/Secondary City PUMA	-1.07E+15	-2.241771	-1.94E+15	-0.8138896	-2.269848	-2.094474
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	-0.3250347	-0.6336996	0.1045478	-1.709569	0.7707755	-0.292786
CARPOOL/No vehicles owned/Inner Suburb PUMA	-0.3591891	-1.924579	-0.1994685	-1.57877	0.2127786	-0.2836273
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	-0.7724587	-1.130643	-0.3991694	-0.9534646	0.4880457	-0.9171716
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-0.8737125	-1.770118	0.1821243	-1.262881	-1.166329	0.3408995
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	-0.4137289	-1.045301	0.4824412	-1.278842	-1.303578	0.2130535
CARPOOL/No vehicles owned/Outer Suburb PUMA	-0.6784311	-1.101999	0.2085395	-1.768967	-1.184763	0.1564374
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-2.14977	-2.303574	-0.2202425	-1.222087	-0.9809523	-1.390728
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-0.1389065	-2.909737	-0.418521	-1.57993	-3.041235	0.1871081
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	-0.2937283	-1.461207	0.2754777	-1.474392	0.1434107	-0.2375619
CARPOOL/No vehicles owned/Fringe Suburb PUMA	-2.232258	-1.323978	0.5923163	-1.583105	-0.7034698	-0.5127753
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-2.704	-2.116714	-0.3064714	-2.282666	-0.8532903	-1.616709
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	0.048285	-1.259113	-0.2471972	-0.9378346	-2.176651	0.3088755
DRIVE ALONE/1 vehicle owned/Central City PUMA	16.70188	-10.57916	1.516918	8.193071	13.27526	14.87419
CARPOOL/1 vehicle owned/Central City PUMA	16.40599	-10.73839	1.612097	7.670674	12.48193	12.82061
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	15.11103	-12.09813	0.424675	6.776665	12.22379	10.88691
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	15.11887	-12.31055	-0.7341457	6.956721	11.10562	12.02841
DRIVE ALONE/1 vehicle owned/Secondary City PUMA	12.64928	-7.621611	0.1026921	5.907068	11.55255	12.03664
CARPOOL/1 vehicle owned/Secondary City PUMA	13.24551	-7.69428	-0.3600444	5.837606	11.73056	10.26665
PUBLIC TRANSIT/1 vehicle owned/Secondary City PUMA	-6.79E+14	-1.04E+17	-2.383272	-9.23E+16	-7.66E+14	-1.01E+15
BIKE-PEDESTRIAN/1 vehicle owned/Secondary City PUMA	11.95732	-9.247153	-1.377378	4.04941	9.10279	9.175868
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	15.55633	-9.403193	1.188819	7.545129	12.53465	14.35913
CARPOOL/1 vehicle owned/Inner Suburb PUMA	15.08226	-9.478685	0.6828204	7.265197	11.6861	12.01404
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	12.79449	-10.56129	-1.31439	6.302456	11.12292	8.919746
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	14.40464	-10.76095	-0.7439581	6.123466	10.31215	11.76241
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	14.94103	-8.99644	1.375082	7.350061	12.93464	14.47419
CARPOOL/1 vehicle owned/Outer Suburb PUMA	14.55197	-9.318554	0.5789362	6.83658	12.79052	12.32679
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	12.47823	-13.04897	-2.016744	5.579341	10.45987	9.021944
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	12.39442	-10.27553	-0.9271003	6.038872	11.31069	11.23716
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	15.36946	-9.688747	1.44185	7.204855	12.51402	13.66984
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	14.20543	-9.544925	1.089427	7.173266	12.04428	12.05945
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	-3.95E+14	-12.8899	-4.87E+14	5.242242	9.205614	7.21967
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	12.27519	-10.24631	-1.973289	5.966895	9.709246	11.0368
DRIVE ALONE/2 vehicles owned/Central City PUMA	11.52383	-16.22651	5.666376	12.88771	9.122593	
CARPOOL/2 vehicles owned/Central City PUMA	10.23274	-17.83349	4.432263	11.17956	8.004692	
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	8.478784	-19.18838	2.29349	9.934801	6.602982	
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	9.225164	-19.56114	2.792397	10.17092	4.372641	

Appendix D-4: Greater Los Angeles Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Secondary City PUMA	9.087498	-9.753792	1.912851	9.898421	7.831605	
CARPOOL/2 vehicles owned/Secondary City PUMA	8.042618	-11.13818	1.028937	8.374103	6.604901	
PUBLIC TRANSIT/2 vehicles owned/Secondary City PUMA	5.08518	-2.78E+17	-2.05379	6.61151	-2.96E+15	
BIKE-PEDESTRIAN/2 vehicles owned/Secondary City PUMA	6.691168	-13.64215	-2.02E+15	-1.50E+17	3.772185	
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	10.86797	-13.24373	4.254166	12.21884	9.801613	
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	9.33926	-15.18191	3.093491	10.4471	8.632892	
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	7.186577	-19.41836	-0.0387522	8.529193	6.32876	
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	8.307411	-16.64054	0.9914799	8.577535	5.613484	
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	11.05178	-12.49527	4.501013	11.82619	10.38963	
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	9.40191	-14.16443	3.194856	10.13576	9.049398	
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	7.075309	-16.2289	0.0276694	8.040085	5.696106	
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	5.847237	-18.07361	0.1917185	8.96905	5.061673	
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	11.19557	-13.25817	4.731476	11.97876	9.865867	
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	9.54038	-14.90404	3.545802	9.868133	8.418165	
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	-1.13E+15	-18.34245	-0.4064937	6.228012	5.789465	
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	7.656422	-16.16974	-0.7560442	9.183461	5.232761	
DRIVE ALONE/Occupation-specific auto accessibility	2.05E-09	2.07E-09	1.57E-09	1.08E-09	1.21E-09	-2.71E-10
CARPOOL/Occupation-specific auto accessibility	1.68E-09	1.60E-09	1.51E-09	8.85E-10	9.00E-10	-1.95E-10
PUBLIC TRANSIT/Occupation-specific transit accessibility	4.01E-08	5.36E-08	3.85E-08	3.75E-08	1.34E-08	-1.09E-08
BIKE-PED/Occupation-specific transit accessibility	-2.15E-08	4.27E-08	2.13E-08	1.69E-08	6.27E-09	-1.60E-08
DRIVE ALONE/Female trip-maker	-1.392604	0.0892447	-0.4734175	0.1198849	-0.3880365	0.002422
CARPOOL/Female trip-maker	-0.8655643	0.2451409	-0.4505971	-0.1838119	-0.1455262	-0.1478584
PUBLIC TRANSIT/Female trip-maker	-0.0161127	0.7766251	0.0373141	0.0896059	0.2454465	-0.1481
BIKE-PED/Female trip-maker	-1.052581	0.0168754	-0.3576723	0.2634138	0.2132232	0.0742981
DRIVE ALONE/45-64 year-old trip-maker	16.41625	-0.783811	23.94477	22.81577	15.74598	20.14248
CARPOOL/45-64 year-old trip-maker	16.90226	0.2917932	-6.58E+14	22.39808	16.37352	-3.45E+14
PUBLIC TRANSIT/45-64 year-old trip-maker	-4.45E+13	0.477498	24.79324	-2.83E+15	-1.07E+14	19.999
BIKE-PED/45-64 year-old trip-maker	-4.12E+14	-0.5877627	-5.77E+14	-1.85E+16	-1.82E+14	-2.49E+14
DRIVE ALONE/45-64 year-old trip-maker	0.7258932	-0.0505904	-0.4865782	0.2478898	-0.0287649	0.0716219
CARPOOL/45-64 year-old trip-maker	0.8261487	-0.2409398	-0.6876972	-0.2047017	-0.2597516	-0.1095685
PUBLIC TRANSIT/45-64 year-old trip-maker	1.215849	0.2386516	-0.0614381	-0.1560637	0.2720575	0.3437813
BIKE-PED/45-64 year-old trip-maker	-0.2086789	-0.216165	0.1489968	-1.245968	-0.0489083	-0.2094853
DRIVE ALONE/Single-worker households trip-maker	-0.8045624	0.0741362	-0.5989757	-0.5180677	0.0671666	
CARPOOL/Single-worker households trip-maker	-0.9635309	0.0226916	-0.6224542	-0.2584816	-0.3261506	-0.3840886
PUBLIC TRANSIT/Single-worker households trip-maker	-0.1007426	0.1283421	-0.1897833	-0.2443885	-0.1528444	1.177871
BIKE-PED/Single-worker households trip-maker	-1.29402	0.5203226	-0.3048363	-0.1119699	0.6513037	-0.0918705
DRIVE ALONE/Disabled trip-maker	-0.7358023	-1.664567	-0.4572799	-0.9788871	0.1564603	-1.010511
CARPOOL/Disabled trip-maker	-0.5392261	-1.393813	-0.2319031	-0.4480873	-0.0619726	-0.4290471
PUBLIC TRANSIT/Disabled trip-maker	-0.5645954	-1.919113	0.0103595	-0.6900829	-0.574754	-0.3387508
BIKE-PED/Disabled trip-maker	-1.47694	-1.658604	0.2277038	-1.021684	-0.0656208	-0.777414
Constants						
Central City PUMA Type (Level 2 model only)	0.9554999	0.7411018	1.424984	1.862569	0.3378825	3.307275
Secondary City PUMA Type (Level 2 model only)	1.186472	1.430092	3.565189	2.361286	0.3256325	3.831019
Inner Suburb PUMA Type (Level 2 model only)	1.042807	0.9455638	1.889423	1.94146	0.2983903	3.384659
Outer Suburb PUMA Type (Level 2 model only)	1.079388	0.9928993	1.900308	1.998761	0.3159386	3.367774
Fringe Suburb PUMA Type (Level 2 model only)	1.078961	0.9289837	1.842547	2.00853	0.3072135	3.502546
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	-0.2081838	-0.7042871	-1.002962	0.0897084	-1.019838	
FRINGE SUBURB PUMA choice	0.092994	-0.7190548	0.450504	0.0939719	0.2972525	-0.8607553

Appendix D-4: Greater Los Angeles Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Household Income	1.72E-06	-0.0000208	-9.83E-06	-1.84E-06	-3.45E-06	-4.94E-06
SECONDARY CITY PUMA choice * Household Income	-5.98E-06	0.0000128	-2.41E-06	-8.89E-06	6.86E-06	4.87E-06
INNER SUBURB PUMA choice * Household Income	6.38E-06	-6.24E-06	4.50E-06	6.36E-06	0.0000182	4.34E-06
OUTER SUBURB PUMA choice * Household Income	9.56E-06	3.75E-06	7.09E-06	0.0000151	0.0000152	-0.0000297
FRINGE SUBURB PUMA choice * Household Income	8.78E-06	1.42E-06	4.00E-06	-6.14E-07	3.77E-06	9.33E-06
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.5141989	1.037676	0.0330366	0.9414862	0.3067109	0.8021884
SECONDARY CITY PUMA choice * Renter Dummy Variable	-0.0432567	0.4555208	-0.6148197	-0.9319121	-0.1300716	-0.4044312
INNER SUBURB PUMA choice * Renter Dummy Variable	0.1502105	0.6479057	0.1888874	0.27279	0.4133891	0.3654926
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.384801	-0.1560371	-0.3617314	-0.1464822	-0.0788784	-0.7442478
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.5688173	-0.4688337	-0.4903787	-0.6880818	-0.2933608	-1.042462
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	-0.5127676	3.349226	1.450351	0.4962164	-0.4055696	-1.54714
SECONDARY CITY PUMA choice * Condo Owner Dummy Variable	0.224473	-2.07E+07	-3.23E+07	0.425605	-0.5479986	-0.2101429
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	0.4106676	3.911165	2.074081	0.3963102	0.7415357	1.239998
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	0.2643938	2.981414	2.169046	0.3029558	0.5464964	-0.5275667
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-0.1400268	3.033574	2.015969	-0.1790261	-0.3932254	-1.19383
CENTRAL CITY PUMA choice * Persons in Household	0.0016843	0.1569586	-0.029446	0.0184339	-0.0296083	-0.0296083
SECONDARY CITY PUMA choice * Persons in Household	0.0317597	-0.012309	0.0807988	0.1437879	-0.0350422	-0.0350422
INNER SUBURB PUMA choice * Persons in Household	-0.0343217	0.2156234	0.0278989	0.0188251	0.0782174	0.0782174
OUTER SUBURB PUMA choice * Persons in Household	-0.0400214	-0.0191259	-0.0480933	-0.0392034	0.0497828	0.0497828
FRINGE SUBURB PUMA choice * Persons in Household	-0.0681589	0.0160923	-0.0419502	0.0990487	0.1069827	0.1069827
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-0.4648324	-1.008276	-1.146566	-0.2931102	-1.123885	-0.596711
SECONDARY CITY PUMA choice * White HH Head Dummy Variable	0.9172121	0.0674033	0.1693052	0.1169805	0.3453138	0.2181382
INNER SUBURB PUMA choice * White HH Head Dummy Variable	0.1784019	-0.575331	-0.537336	-0.2562722	-0.1646444	-0.0995964
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	0.6443109	-0.3075097	0.0685354	0.3708216	0.1472856	-0.1137145
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	1.012607	0.7498341	0.9220262	0.2590207	0.8495802	0.1708106
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	-0.129684	0.4472518	-0.1665977	0.2157832	-0.0610941	0.1484762
SECONDARY CITY PUMA choice * Female HH Head Dummy Variable	0.4325899	-0.4343891	1.18204	0.1732265	-0.0499141	0.2413009
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.2358108	0.0675074	-0.1159857	0.1723316	0.1231155	0.3181025
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	0.0519249	0.2064277	0.0136313	0.3158233	0.1847906	0.2479054
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	0.0084739	0.2157362	-0.0204594	0.028649	0.1334998	0.2289261
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	11.13063	2.909035	5.055508	0.1604623	9.780764	2.604001
SECONDARY CITY PUMA choice * Senior HH Head Dummy Variable	-1.63E+08	-1.79E+07	-2.95E+07	-10.32073	10.05088	-7.182746
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	10.9162	4.455279	-5.52119	-0.8265498	10.37442	1.435477
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	9.558313	3.935412	-6.586729	-2.116116	-1.22E+08	2.957311
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	-2.82E+07	4.153044	-4.259708	-4.834438	-2.31E+08	0.4847934
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.1684162	0.002333	0.0086267	-0.3384926	-0.0288021	-0.1996171
SECONDARY CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.1375102	-0.1352573	0.4828737	-0.3215356	-0.5168141	0.1320818
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.2584609	-0.0542385	0.0319013	0.0350059	0.1838583	0.1895381
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1486486	-0.1337236	-0.2569256	-0.267968	0.2654223	0.1715398
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.2688517	0.2149538	0.380467	0.3033347	-0.0462172	0.3651205
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.253515	0.1226208	0.0450144	0.1474594	0.1583134	-0.8950168
SECONDARY CITY PUMA choice * Single-worker HH Dummy Variable	-0.2162781	-0.5352651	1.10572	-0.2346458	-0.2447561	-0.2447561
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	0.1158518	0.2909192	-0.1033031	0.3672448	0.1853804	0.1853804
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.1258057	-0.0078189	-0.0742816	0.1009949	0.1186807	0.1186807
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	0.0692295	0.1639483	-0.0021403	-0.0113826	0.3446947	0.3446947
PUMA Average High School Test Score	0.060345	0.0918183	0.0544886	0.0179083	-0.0169259	0.0729653
PUMA Average Occupation-specific Auto Accessibility	-5.71E-10	4.17E-10	-8.56E-10	-1.59E-09	-7.70E-12	2.96E-10
PUMA Average Auto Accessibility	1.58E-10	-1.03E-10	5.24E-10	-1.40E-10	2.44E-10	-2.75E-10

Appendix D-5: Greater New York City Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	3333120	854500	764480	1252260	1175800	
Log-likelihood Ratio	-348392	-91824	-85279	-127713	-123344	
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
CARPOOL/No vehicles owned/Central City PUMA	-0.8823149	2.21808	-0.0278956	18.23977	1.136033	0.2603324
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	1.358313	1.773893	1.961309	18.31108	1.41084	
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	-0.6313887	3.948161	-0.4428662	20.9078	4.303066	
DRIVE ALONE/No vehicles owned/Secondary City PUMA	-5.802946	2.51661	-2.573663	19.59112	2.458135	-0.8880515
CARPOOL/No vehicles owned/Secondary City PUMA	-1.24E+18	2.233833	-0.6750601	16.85248	2.550321	-0.7336784
PUBLIC TRANSIT/No vehicles owned/Secondary City PUMA	-4.91418	2.194563	-1.176845	18.13608	0.8001236	-2.049975
BIKE-PEDESTRIAN/No vehicles owned/Secondary City PUMA	-5.336194	2.618205	-1.761708	17.74891	2.966274	-1.846965
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	-0.2807279	0.9969704	0.2243564	-2.36E+16	1.315887	-1.091699
CARPOOL/No vehicles owned/Inner Suburb PUMA	-0.3446231	2.287668	0.6788701	17.62651	1.588683	-0.7273373
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	1.003811	2.202096	1.462117	18.51012	1.397995	-1.506318
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-1.450943	3.791106	-0.8585961	19.58231	3.550266	-1.456079
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	-2.517217	1.950105	-0.0949064	18.10787	2.191897	-0.2423078
CARPOOL/No vehicles owned/Outer Suburb PUMA	-2.671953	2.983119	0.0993791	17.38748	1.418557	-0.0526405
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-3.817611	2.63831	-0.6373318	18.3195	1.745124	-1.886803
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-4.921322	3.241841	-1.016964	18.2567	2.877642	-2.244531
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	-2.671225	2.29706	-0.6365715	18.86052	1.64616	-3.207607
CARPOOL/No vehicles owned/Fringe Suburb PUMA	-2.815558	3.657071	-0.7889296	17.73662	2.535218	-1.120917
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-5.57E+17	1.424427	-0.879782	19.30436	2.021784	
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	-4.334324	1.591937	-2.796998	17.71288	1.711681	
DRIVE ALONE/1 vehicle owned/Central City PUMA	20.64918	3.196356	3.120444	18.27878	1.394258	7.601546
CARPOOL/1 vehicle owned/Central City PUMA	19.25905	0.8875112	2.720756	-0.0209596	-1.658912	6.191457
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	20.69672	1.162818	3.218487	0.9451298	0.2664082	4.829214
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	17.79859	-0.1950224	1.204669	-0.7978925	-0.7456069	5.091182
DRIVE ALONE/1 vehicle owned/Secondary City PUMA	16.16654	1.101172	2.934159	0.7574112	0.8638851	10.46254
CARPOOL/1 vehicle owned/Secondary City PUMA	15.70343	0.8567959	2.707902	0.5646414	-3.14E+14	9.057132
PUBLIC TRANSIT/1 vehicle owned/Secondary City PUMA	-3.43E+17	-5.38E+14	0.7968231	-1.843069	-3.10E+14	-1.21E+15
BIKE-PEDESTRIAN/1 vehicle owned/Secondary City PUMA	-3.58E+17	-5.14E+14	-0.982927	-0.4471382	-0.0510834	7.667447
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	19.50695	1.354884	3.985304	0.6457836	0.4667608	3.821797
CARPOOL/1 vehicle owned/Inner Suburb PUMA	18.87829	0.2677185	3.428273	0.6122488	0.114951	1.993442
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	18.53204	0.7060907	3.013607	0.6104644	0.1147429	0.7080568
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	17.21648	-0.846454	0.7184649	-0.8101669	-1.288398	0.4457589
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	17.15057	1.580423	3.613961	0.8645549	0.6509267	7.219767
CARPOOL/1 vehicle owned/Outer Suburb PUMA	16.81558	0.3543481	2.660495	0.7908756	0.4008109	5.537018
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	15.58793	0.0264705	1.405737	-0.3732931	-0.5672028	2.214903
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	13.47873	-0.6573044	0.9046105	-0.9241656	-1.298204	3.088779
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	16.95248	1.711218	3.590941	1.156801	0.9156072	8.10423
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	16.14628	0.5273819	3.030896	0.6833872	-0.806753	6.156944
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	14.81442	-1.10729	0.4565974	-1.357329	-2.54765	1.702509
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	14.27863	-0.4791136	0.2219394	-0.6766707	-1.383998	3.682853
DRIVE ALONE/2 vehicles owned/Central City PUMA	18.40156	12.09645	2.805933	21.94524	9.925911	
CARPOOL/2 vehicles owned/Central City PUMA	17.52672	10.48682	1.780128	21.49375	9.14824	
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	17.55579	11.61185	2.09547	21.78975	10.24004	
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	16.11353	9.134401	0.7467785	19.16629	8.512777	

Appendix D-5: Greater New York City Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Secondary City PUMA	17.73715	10.54541	2.967079	21.57342	10.3912	
CARPOOL/2 vehicles owned/Secondary City PUMA	16.37708	8.575916	1.908334	19.00804	8.983828	
PUBLIC TRANSIT/2 vehicles owned/Secondary City PUMA	-3.17E+17	-2.01E+15	0.2304323	19.25334	8.155872	
BIKE-PEDESTRIAN/2 vehicles owned/Secondary City PUMA	-3.71E+17	6.43006	-0.1481926	-7.36E+17	-6.30E+14	
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	21.48293	12.39847	4.023594	22.06077	9.717744	
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	19.90107	9.776922	2.75387	20.48509	8.095061	
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	19.69669	10.66955	2.282509	20.70021	8.362857	
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	17.38844	8.766254	-0.4533784	19.09275	6.423598	
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	21.96245	12.62524	4.073716	22.59503	9.731716	
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	19.602	9.785752	2.56484	20.32567	7.839409	
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	19.85332	9.47796	0.9022421	18.8184	6.874056	
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	17.60361	8.678702	-1.37081	19.67682	6.22938	
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	22.11862	12.92528	4.375516	23.01468	9.550086	
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	19.8955	10.1473	2.880959	20.79373	6.770413	
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	19.34662	8.699633	0.4704767	19.23737	6.441566	
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	17.24506	8.852312	0.9149254	19.6546	5.258974	
DRIVE ALONE/Occupation-specific auto accessibility	1.32E-10	-3.78E-11	-3.06E-10	5.48E-10	5.60E-10	1.26E-09
CARPOOL/Occupation-specific auto accessibility	-4.31E-10	1.19E-10	-3.04E-10	-1.58E-10	2.06E-10	2.11E-09
PUBLIC TRANSIT/Occupation-specific transit accessibility	5.41E-09	-5.66E-10	1.12E-09	6.53E-09	2.03E-09	3.27E-08
BIKE-PED/Occupation-specific transit accessibility	1.01E-08	-8.28E-10	6.05E-10	4.62E-09	1.21E-10	2.74E-08
DRIVE ALONE/Female trip-maker	-0.1568262	-0.289149	0.0782172	0.0808276	0.1664583	-0.6053731
CARPOOL/Female trip-maker	0.1431552	-0.1864035	0.1122374	-0.088791	0.3839183	-0.6753218
PUBLIC TRANSIT/Female trip-maker	0.2090868	-0.1627333	0.5239743	0.4131195	0.4728259	-0.2859176
BIKE-PED/Female trip-maker	0.0332568	-0.1040949	0.5600913	-0.0273967	-0.0560666	-0.3217598
DRIVE ALONE/45-64 year-old trip-maker	7.248593	1.083259	32.86246	5.340441	0.5924487	1.408401
CARPOOL/45-64 year-old trip-maker	8.545079	0.1516412	-5.19E+14	-2.97E+15	0.1812295	-0.0089856
PUBLIC TRANSIT/45-64 year-old trip-maker	7.555782	1.175288	-3.77E+14	4.672653	-0.7311705	1.158301
BIKE-PED/45-64 year-old trip-maker	-3.18E+16	-1.677384	-9.78E+14	5.214914	-0.6303375	1.32616
DRIVE ALONE/45-64 year-old trip-maker	-0.5214383	-0.078909	0.5043365	0.3816075	0.3172598	0.1263619
CARPOOL/45-64 year-old trip-maker	-0.3493505	0.1164905	0.3130042	-0.0266867	-0.0919863	0.1742211
PUBLIC TRANSIT/45-64 year-old trip-maker	-0.3113168	-0.0511453	0.2537562	-0.1115171	0.1562447	0.3663585
BIKE-PED/45-64 year-old trip-maker	0.1585486	-0.0996264	0.0912555	0.0044084	0.3907635	-0.1627707
DRIVE ALONE/Single-worker households trip-maker	-0.4427525	-1.161877	-0.3044647	-1.156907	0.009515	
CARPOOL/Single-worker households trip-maker	-0.4343224	-0.6342492	-0.4600202	-0.5274938	-0.0226937	-0.95644
PUBLIC TRANSIT/Single-worker households trip-maker	-0.0110085	-0.4694931	-0.3137183	-0.4498391	-0.0701121	1.778074
BIKE-PED/Single-worker households trip-maker	-0.1460328	0.0407422	-0.1398444	-0.3869269	0.1673305	0.8822722
DRIVE ALONE/Disabled trip-maker	-0.2098174	-0.0312038	-0.8315062	-0.0099523	-0.9551064	0.0044714
CARPOOL/Disabled trip-maker	-0.2037369	0.0409941	-0.4026225	0.381354	-1.2768	0.0989478
PUBLIC TRANSIT/Disabled trip-maker	-0.6167228	0.1743993	-0.6388567	0.1215897	-1.006394	0.3819136
BIKE-PED/Disabled trip-maker	0.1872339	-0.2209733	-0.2277893	-0.2371327	-0.4329339	-0.8244801
Constants						
Central City PUMA Type (Level 2 model only)	0.3002619	14.52173	0.9153898	2.608837	2.76359	0.6902647
Secondary City PUMA Type (Level 2 model only)	0.3663764	17.64349	0.969494	2.846015	2.907921	0.6260202
Inner Suburb PUMA Type (Level 2 model only)	0.341469	14.88347	1.002242	2.736269	3.148021	1.791393
Outer Suburb PUMA Type (Level 2 model only)	0.3501256	14.8572	1.035697	2.740901	3.24365	1.056925
Fringe Suburb PUMA Type (Level 2 model only)	0.3564301	14.54792	0.99576	2.702751	3.34175	0.9960945
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	0.8052478	0.4044151	0.5473003	0.9832458	0.9918416	
FRINGE SUBURB PUMA choice	0.1365292	0.0367053	0.0864992	-0.0419756	0.5290112	

Appendix D-5: Greater New York City Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Household Income	3.43E-06	-3.16E-06	3.32E-06	0.0000116	7.91E-06	0.0000352
SECONDARY CITY PUMA choice * Household Income	-1.90E-06	-4.93E-06	-8.59E-07	-0.0000103	-9.89E-06	4.05E-06
INNER SUBURB PUMA choice * Household Income	6.70E-07	4.07E-08	4.48E-06	6.04E-06	3.88E-07	0.0000185
OUTER SUBURB PUMA choice * Household Income	5.82E-06	8.44E-07	2.22E-06	-3.19E-06	-7.06E-06	0.0000363
FRINGE SUBURB PUMA choice * Household Income	6.21E-06	-2.93E-06	-4.91E-06	-3.68E-06	-0.0000144	0.0000299
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.382957	0.2779951	-0.0829959	0.272253	0.0986631	0.6052078
SECONDARY CITY PUMA choice * Renter Dummy Variable	0.254697	-0.0350587	0.7512946	-0.4372084	0.1844087	0.5287729
INNER SUBURB PUMA choice * Renter Dummy Variable	-0.2936191	0.0612641	-0.443	-0.3192229	-0.3090528	1.007863
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.3103298	-0.3638213	-0.7528411	-0.6294289	-0.3542026	0.5399624
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.4298011	-0.5675696	-0.3786751	-0.4249942	-0.3122315	0.3231169
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	-0.0882454	0.2083464	-0.9068007	-0.364984	-0.3790147	0.5691524
SECONDARY CITY PUMA choice * Condo Owner Dummy Variable	1.204915	-0.3695097	1.000366	0.6177865	1.074036	-0.0664296
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	-0.8275333	0.0483562	-1.042681	0.0262659	-0.693344	0.8620487
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	-0.5992542	-0.1247525	-2.090089	-0.4873115	0.0564501	0.433637
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-0.1501497	0.0488823	-0.1937621	0.5053229	0.7351631	0.8933973
CENTRAL CITY PUMA choice * Persons in Household	-0.0029505	0.1062938	0.0325613	-0.1981895	-0.1326752	
SECONDARY CITY PUMA choice * Persons in Household	-0.0849473	-0.0532489	-0.0285702	0.1645518	0.1271228	
INNER SUBURB PUMA choice * Persons in Household	0.0572349	0.1114972	-0.0102961	-0.114542	-0.081022	-0.3440833
OUTER SUBURB PUMA choice * Persons in Household	0.1401884	0.1314019	0.0622342	0.2701928	0.0110146	
FRINGE SUBURB PUMA choice * Persons in Household	0.0898864	0.0908655	0.0795291	0.0973532	0.0191314	
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	0.1576951	0.1516724	-0.8144107	0.0528387	-0.3832319	-0.1865089
SECONDARY CITY PUMA choice * White HH Head Dummy Variable	-0.2739988	-0.2591349	0.1825628	-0.4934854	-0.1223997	-0.1755118
INNER SUBURB PUMA choice * White HH Head Dummy Variable	-0.5611392	-0.7393675	-0.5168104	-0.970466	-0.272515	-0.7211013
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	0.5950044	0.15549	1.077905	0.0462439	0.9133639	0.3142675
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	0.9998024	0.8703879	1.639768	0.515125	1.71883	0.8367926
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	-0.0211375	-0.9022527	-0.1708919	0.0878153	-0.4037869	0.1514807
SECONDARY CITY PUMA choice * Female HH Head Dummy Variable	0.4415612	0.4197305	0.1467698	0.3920746	0.4965511	0.1262633
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	0.1596075	-0.6416116	-0.0543871	0.0649204	-0.1724426	0.6241246
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	-0.0746883	-0.2572185	-0.1124328	0.0601273	0.0116146	0.4758261
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	-0.4168155	-0.4289293	-0.4381388	0.2103789	-0.0471582	0.4016011
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	0.9472219	2.127372	10.38618	3.722833	1.475538	-0.0173962
SECONDARY CITY PUMA choice * Senior HH Head Dummy Variable	-1.99E+07	-4.55E+07	-1.58E+07	-3.26E+08	2.069255	0.1840263
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	2.121216	2.034049	6.31056	4.001062	-0.7966149	-0.4343117
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	1.254564	2.657043	-4415813	3.527369	1.215834	0.9330101
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	1.659626	2.796597	6.553333	3.744825	0.4694638	0.3292305
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.3806362	0.1887357	0.1185803	-0.1104648	0.2456955	-0.4146667
SECONDARY CITY PUMA choice * Age 45-64 HH Head Dummy Variable	-0.2507533	-0.4086682	0.1157726	0.1919217	-0.4499013	0.0215197
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.3788002	0.173351	0.1547652	0.272884	0.0207911	0.1198435
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.0430398	-0.0458216	-0.2299808	0.3429596	0.0823879	0.1796283
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.0496281	0.0505108	-0.0077447	0.3677386	-0.3679051	0.2958735
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.6132551	-1.241876	0.4355911	0.4802623	-0.0517111	
SECONDARY CITY PUMA choice * Single-worker HH Dummy Variable	-0.2791233	2.971404	0.0555787	-0.2349833	0.1473731	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	0.231631	-0.2245985	0.2532313	0.3036198	-0.2932098	
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	0.0077795	0.6441056	-0.4105431	-0.143701	-0.1930974	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.2723603	0.732705	-0.6414389	-0.5133439	-0.7007703	-0.2947163
PUMA Average High School Test Score	-0.0045403	-0.0009444	0.0203618	0.0095368	0.0287084	-0.0205274
PUMA Average Occupation-specific Auto Accessibility	2.47E-10	1.04E-09	1.79E-10	-1.13E-09	-3.59E-10	-1.57E-09
PUMA Average Auto Accessibility	4.84E-11	1.06E-10	5.69E-11	9.32E-11	1.83E-10	1.66E-10

Appendix D-6: San Francisco Bay Area Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	1425300	442060	361040	815520	450700	579140
Log-likelihood Ratio	-143850.63	-47545.364	-38600.01	-94796.356	-47776.001	61716.077
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	0.0341846	-0.9755764	-0.441034	0.2356811	-1.037085	
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	0.8411307	0.7536101	-0.293187	2.255953	0.5285844	
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	1.737618	0.6304954	-1.026193	1.948003	0.381358	
DRIVE ALONE/No vehicles owned/Secondary City PUMA	0.8781712	0.0698167	-1.246151	0.3040184	-40.15017	-2.8058
CARPOOL/No vehicles owned/Secondary City PUMA	-1.42E+21	-3.03E+23	-3.70E+15	-0.3819416	-39.91121	-5.22E+15
PUBLIC TRANSIT/No vehicles owned/Secondary City PUMA	-1.27E+17	-1.89E+26	-2.347501	0.4302235	-41.20083	-5.62E+15
BIKE-PEDESTRIAN/No vehicles owned/Secondary City PUMA	-1.25E+14	0.6044647	-1.476774	-0.051435	-1.420965	-4.075785
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	1.182039	0.8791753	-0.2577057	1.512014	-0.288679	0.8537185
CARPOOL/No vehicles owned/Inner Suburb PUMA	-1.52E+20	-1.521963	-0.641535	0.0407248	0.3519457	-0.9210705
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	-1.225991	-0.1479641	-0.8868238	1.220535	-0.3866193	-0.883114
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-0.8890748	-0.6393131	-1.468233	0.3691791	-0.2363205	-1.602104
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	1.179231	0.6362663	0.3864926	1.357778	0.2539816	0.0045296
CARPOOL/No vehicles owned/Outer Suburb PUMA	1.272244	-0.425241	-1.142379	0.5414346	0.048856	-0.6846056
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	0.027967	-0.2879514	-1.34125	1.261452	-0.5611139	-0.8121449
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-1.00E+17	-0.6245093	-0.3257014	1.328936	-0.7082354	-1.875437
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	1.329248	-0.2649904	-3.400211	0.8119275	-0.324991	-0.3440746
CARPOOL/No vehicles owned/Fringe Suburb PUMA	-0.3085675	-5.23E+40	-3.40E+15	-0.6954207	-1.523236	-4.25E+15
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-0.5140693	-1.60E+145	-3.20E+15	-2.386576	-2.533741	-3.628711
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	-7.59E+16	-0.1197302	-3.51E+15	-0.2704149	-40.34811	-2.974407
DRIVE ALONE/1 vehicle owned/Central City PUMA	15.25073	19.80102	9.647294	6.049024	22.15256	1.266731
CARPOOL/1 vehicle owned/Central City PUMA	15.38293	19.91064	9.069474	5.278483	20.68269	-0.5199619
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	14.98167	19.61412	7.725942	6.341414	20.69572	-1.420085
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	14.01245	19.75427	6.339363	5.25207	20.77369	-1.604224
DRIVE ALONE/1 vehicle owned/Secondary City PUMA	15.73528	28.02072	8.98643	5.441762	20.88694	2.875114
CARPOOL/1 vehicle owned/Secondary City PUMA	14.78472	-8.38E+23	8.024307	3.94521	20.17246	1.377696
PUBLIC TRANSIT/1 vehicle owned/Secondary City PUMA	-1.57E+17	26.35986	7.139211	4.110369	-16.84038	-2.224688
BIKE-PEDESTRIAN/1 vehicle owned/Secondary City PUMA	14.20915	-1.54E+23	-5.04E+15	4.335696	-14.93413	-0.2484614
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	16.44807	22.82976	10.36204	5.844084	22.75036	3.256282
CARPOOL/1 vehicle owned/Inner Suburb PUMA	15.71065	22.89734	10.15415	5.352363	21.49751	0.7172583
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	14.60013	20.7854	8.053688	4.575061	21.08447	-0.2569827
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	13.4601	20.75602	7.225827	3.549304	20.46479	-1.149123
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	16.58111	21.21972	10.26372	6.41325	22.6509	3.375278
CARPOOL/1 vehicle owned/Outer Suburb PUMA	16.00077	20.40638	10.06076	5.809284	21.242	1.138303
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	14.58852	19.89117	7.550283	4.627207	19.54152	-0.5460809
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	13.68184	18.65571	7.437551	5.257819	20.80558	-0.9715687
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	16.04218	23.21918	9.408025	3.941533	21.57628	1.529663
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	15.44082	22.29081	8.771536	3.265547	21.09614	-0.9133057
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	-3.01E+16	-9.56E+14	6.810543	-1.38E+14	-16.00082	-3.097866
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	11.58273	21.67919	7.46845	2.206006	-15.05374	-2.401035
DRIVE ALONE/2 vehicles owned/Central City PUMA	19.97143	5.024384	8.179667	3.609464	6.436809	
CARPOOL/2 vehicles owned/Central City PUMA	18.67327	3.1215	7.436329	1.612814	5.006354	
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	17.82555	2.9077	5.116848	2.350405	3.500387	
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	17.6926	2.453769	-1.45E+16	1.773947	4.096054	
DRIVE ALONE/2 vehicles owned/Secondary City PUMA	20.25931	6.732518	9.113058	3.547165	5.836407	
CARPOOL/2 vehicles owned/Secondary City PUMA	18.36426	4.71438	8.179941	1.78919	4.012513	
PUBLIC TRANSIT/2 vehicles owned/Secondary City PUMA	-3.68E+17	-2.22E+17	6.317301	0.5097941	-32.65158	
BIKE-PEDESTRIAN/2 vehicles owned/Secondary City PUMA	-3.43E+17	3.296073	6.358295	0.9741529	3.331771	

Appendix D-6: San Francisco Bay Area Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	21.24902	5.99815	9.846638	3.928147	7.363875	
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	19.88234	3.748881	8.486699	1.689613	5.647262	
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	17.7939	2.659743	5.984861	1.395208	4.009804	
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	17.59871	2.186778	6.715341	0.2725681	2.336879	
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	21.60682	5.510219	10.08807	4.389445	7.630549	
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	19.95343	3.574978	8.818771	2.324422	6.099258	
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	18.54842	2.634806	6.21218	1.332638	4.198131	
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	17.598	1.483625	7.533774	1.089336	3.35835	
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	21.05071	5.746018	9.907103	2.542614	6.967583	
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	19.74831	3.876877	8.652665	0.7160739	5.66208	
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	17.73077	2.656027	5.083485	-1.90887	1.917923	
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	16.94924	2.456468	5.797384	-0.6534752	2.213293	
DRIVE ALONE/Occupation-specific auto accessibility	8.00E-10	-9.93E-10	9.79E-10	8.71E-10	-4.76E-10	6.20E-11
CARPOOL/Occupation-specific auto accessibility	7.10E-10	-6.48E-10	-3.75E-11	9.01E-10	1.36E-10	-1.54E-10
PUBLIC TRANSIT/Occupation-specific transit accessibility	1.65E-08	-2.31E-10	1.19E-08	1.19E-08	-1.34E-08	1.14E-08
BIKE-PED/Occupation-specific transit accessibility	-1.73E-08	-1.56E-08	2.48E-08	1.27E-08	-1.58E-08	5.30E-09
DRIVE ALONE/Female trip-maker	-0.7086977	0.1319022	0.6222351	-0.0363718	0.1695612	0.494193
CARPOOL/Female trip-maker	-0.0937368	0.3118517	0.6449626	-0.2280777	0.2781046	0.522048
PUBLIC TRANSIT/Female trip-maker	0.1206654	0.4186968	1.179596	0.115348	0.7340868	0.1950278
BIKE-PED/Female trip-maker	0.2005987	0.1672905	-0.483203	-0.1299308	-0.1896275	0.1404879
DRIVE ALONE/45-64 year-old trip-maker	17.00823	6.600493	18.29978	21.95804	17.37608	13.82941
CARPOOL/45-64 year-old trip-maker	-2.33E+16	7.495954	17.98533	22.0149	-18.83954	-1.03E+15
PUBLIC TRANSIT/45-64 year-old trip-maker	-5.74E+13	6.743476	-2.42E+15	-1.81E+13	19.8205	14.41112
BIKE-PED/45-64 year-old trip-maker	-1.12E+16	-1.12E+16	-1.56E+15	-4.36E+13	-16.39606	-2.41E+14
DRIVE ALONE/45-64 year-old trip-maker	0.2894366	-0.2024769	-0.9215335	0.0281958	-0.0941725	0.6561111
CARPOOL/45-64 year-old trip-maker	0.1721772	-0.206304	-1.6883	0.0959224	-0.44628	-0.1416443
PUBLIC TRANSIT/45-64 year-old trip-maker	-0.0111721	0.0438554	-0.0887847	-0.1615172	0.2606014	0.1440674
BIKE-PED/45-64 year-old trip-maker	0.0129842	-0.076093	-1.188426	-0.3335716	0.1783001	0.0532307
DRIVE ALONE/Single-worker households trip-maker	-0.0471058	0.1648239	-0.1281784	-0.3894455	0.0934848	
CARPOOL/Single-worker households trip-maker	-0.7154781	0.1855802	-0.0087447	-0.1824719	-0.2795385	-0.3560624
PUBLIC TRANSIT/Single-worker households trip-maker	0.328576	0.6744878	0.0892131	0.0498832	0.2972969	1.339062
BIKE-PED/Single-worker households trip-maker	0.3764422	0.8761237	-0.6253322	-0.0815068	0.1899493	1.364299
DRIVE ALONE/Disabled trip-maker	-0.4691802	2.452526	0.4166008	0.7526184	4.333355	-2.591693
CARPOOL/Disabled trip-maker	-0.3967025	2.974024	-0.0873333	1.105419	4.434968	-2.228674
PUBLIC TRANSIT/Disabled trip-maker	0.1356862	2.020673	0.8999072	0.2474455	5.012616	-2.689412
BIKE-PED/Disabled trip-maker	-1.035256	1.151047	-0.2738155	0.9880573	-32.19999	-1.844977
Constants						
Central City PUMA Type (Level 2 model only)	0.9986887	2.572961	0.6473312	1.810743	0.0138335	1.136219
Secondary City PUMA Type (Level 2 model only)	1.034307	1.854626	0.6293425	1.955541	0.0156484	0.3779633
Inner Suburb PUMA Type (Level 2 model only)	1.000276	2.309254	0.6738988	1.961907	0.0132925	0.6560567
Outer Suburb PUMA Type (Level 2 model only)	0.9953909	2.487684	0.6784362	1.867548	0.0130052	0.5719231
Fringe Suburb PUMA Type (Level 2 model only)	0.9988791	2.223044	0.6479981	2.651135	0.0140174	1.014999
Level 1: Choice of PUMA Type						
OUTER SUBURB PUMA choice * Household Income	5.40E-06	3.04E-06	5.56E-07	1.75E-06	1.31E-06	0.0000167
FRINGE SUBURB PUMA choice * Household Income	-1.78E-06	4.45E-06	-1.59E-06	2.08E-06	5.16E-06	-0.0000104
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.3100213	0.5906287	0.1619989	0.3290563	0.149047	0.7578699
SECONDARY CITY PUMA choice * Renter Dummy Variable	-0.5880849	-0.5375142	0.0681824	-0.2784847	-0.0032168	-0.2055425
INNER SUBURB PUMA choice * Renter Dummy Variable	0.356207	0.625762	0.1853756	0.0613385	0.05435	0.3004586
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.168869	-0.0778822	-0.1814033	-0.3461405	-0.0210525	-0.1148762
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.5388424	-0.1732564	-0.4463587	-0.5665787	0.0551321	-0.5935399

Appendix D-6: San Francisco Bay Area Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	-0.8439211	0.6651755	-1601.482	-0.9199419	-8.071613	-0.7760957
SECONDARY CITY PUMA choice * Condo Owner Dummy Variable	-0.4990606	-0.8956573	-5818.913	-0.6897162	0.97308	-0.3402703
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	0.3968099	1.059696	5.094714	-0.2693806	1.036798	0.4633165
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	0.3917794	0.583508	4.439701	0.6133047	1.138533	0.0827071
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-0.2872401	-0.5215999	3.251853	-0.1240157	1.041246	-1.37082
CENTRAL CITY PUMA choice * Persons in Household	0.0339882	0.010363	0.0193313	-0.0720178	0.0037354	
SECONDARY CITY PUMA choice * Persons in Household	-0.1877945	-0.0535155	0.071316	0.1447269	0.0431206	
INNER SUBURB PUMA choice * Persons in Household	-0.0731802	0.0555169	-0.0278555	-0.0064614	-0.0354486	0.595656
OUTER SUBURB PUMA choice * Persons in Household	0.02308	0.0635419	0.0210934	-0.0429115	-0.0179542	
FRINGE SUBURB PUMA choice * Persons in Household	0.1024004	0.1464988	-0.0812674	-0.1533133	-0.0092914	
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-0.8370022	-0.4737635	-0.7610527	-0.0867767	-0.1339107	-0.4456001
SECONDARY CITY PUMA choice * White HH Head Dummy Variable	1.16344	1.086444	0.771517	0.6274291	0.5470125	0.638558
INNER SUBURB PUMA choice * White HH Head Dummy Variable	-0.9404442	-0.743085	-0.0217073	-0.5165789	0.0101398	-0.3605124
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	-0.5876864	-0.3296618	0.2847987	-0.4132704	0.1354671	-0.0535699
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	0.6620977	0.4114916	0.7475299	0.2235881	0.374999	0.4549806
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	-0.2560137	0.2465223	-0.4620137	0.246927	0.0616417	0.1116035
SECONDARY CITY PUMA choice * Female HH Head Dummy Variable	-0.3389207	-0.3240229	-0.0735327	0.157869	-0.076044	0.0532103
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	0.3525829	-0.2861872	0.1836135	0.171747	0.1159107	0.0865023
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	0.2103723	-0.4218095	-0.0664365	0.1540152	0.0619795	0.25566
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	-0.072887	0.0799646	0.214091	0.0342834	0.0193285	0.1805233
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	5.505138	0.7562212	5.419224	2.321131	5.408826	-4.276973
SECONDARY CITY PUMA choice * Senior HH Head Dummy Variable	-6762.445	5.451639	-4325.644	-516.115	-7.97806	7.735412
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	3.437144	2.054718	-877.9779	-2.360004	4.95035	3.800976
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	3.200176	0.6147004	3.197623	-3.38E+99	5.059948	5.586672
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	-2111.701	-2258.548	-1496.688	-454.1378	-5.911131	-0.3030742
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	0.1552446	-0.0256428	0.2645694	-0.1542234	0.0456754	-0.3026682
SECONDARY CITY PUMA choice * Age 45-64 HH Head Dummy Variable	-0.0805877	0.1543808	-0.3342957	-0.3390725	0.044214	0.1204387
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.0327074	-0.2054717	-0.1067692	0.3392714	0.0267737	0.0061539
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1345208	0.1549395	0.0136809	0.0990424	-0.0155652	0.3643154
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1662622	0.5279159	0.0234817	0.3307274	-0.0350971	-0.0025112
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.1919189	-0.4054793	0.0101204	0.2963359	0.0554643	
SECONDARY CITY PUMA choice * Single-worker HH Dummy Variable	-0.0808583	-0.3090994	0.4152381	-0.0788554	-0.008452	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.0309016	0.3360822	-0.0154678	-0.1488576	0.089366	
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	0.0790429	0.0876796	0.1190271	0.066495	0.153851	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.1505605	-0.0018895	-0.1971243	0.0896872	0.0810153	0.451329
PUMA Average High School Test Score	0.1132409	0.1539751	0.1382693	0.1700832	0.1888727	0.1282609
PUMA Average Occupation-specific Auto Accessibility	7.80E-10	2.57E-09	1.14E-09	-8.23E-10	8.43E-10	-3.35E-10
PUMA Average Auto Accessibility	3.35E-10	3.86E-10	4.71E-10	4.81E-10	6.89E-10	3.56E-10

Appendix D-7: Washington, D.C.-Baltimore Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
Observations	1252208	421504	353712	723680	624944	703616
Log-likelihood Ratio	-140744.63	-50507.215	-43122.931	-94619.406	-73186.254	-83935.625
Level 2: Choice of Commute Mode Contingent on Choice of PUMA Type						
DRIVE ALONE/No vehicles owned/Central City PUMA	-0.6678112	0.741063	0.2081552	-1.19521	20.58252	0.417429
PUBLIC TRANSIT/No vehicles owned/Central City PUMA	0.5447768	1.900155	1.279565	-1.842735	20.5388	4.524205
BIKE-PEDESTRIAN/No vehicles owned/Central City PUMA	-1.773614	0.0140552	-0.1271101	-0.465207	21.84783	25.4986
DRIVE ALONE/No vehicles owned/Inner Suburb PUMA	0.9657455	0.2878732	0.6056772	-1.436067	21.28452	-0.3270385
CARPOOL/No vehicles owned/Inner Suburb PUMA	-0.0642228	-0.1390041	0.6293187	-1.685375	20.65702	-0.6276677
PUBLIC TRANSIT/No vehicles owned/Inner Suburb PUMA	0.187573	0.1191233	-0.6320436	-0.9533053	20.23088	3.274631
BIKE-PEDESTRIAN/No vehicles owned/Inner Suburb PUMA	-1.418197	-0.6270477	-0.6875141	-1.889644	21.19741	22.84471
DRIVE ALONE/No vehicles owned/Outer Suburb PUMA	-0.025943	0.5737517	0.4956818	-1.729234	20.19633	-0.5093328
CARPOOL/No vehicles owned/Outer Suburb PUMA	-1.865905	1.249725	-0.0449774	-2.308408	20.24185	-1.203431
PUBLIC TRANSIT/No vehicles owned/Outer Suburb PUMA	-2.044699	-0.5831744	-1.248291	-2.916219	19.58713	2.32509
BIKE-PEDESTRIAN/No vehicles owned/Outer Suburb PUMA	-1.388583	-0.0219173	-0.6771376	-2.396723	18.94642	23.99207
DRIVE ALONE/No vehicles owned/Fringe Suburb PUMA	0.7710246	-1.209069	-0.1332913	-3.138276	18.82684	-1.121558
CARPOOL/No vehicles owned/Fringe Suburb PUMA	-1.88E+17	-0.8682949	-4.91E+16	-2.861972	19.91498	
PUBLIC TRANSIT/No vehicles owned/Fringe Suburb PUMA	-2.17E+17	-2.64E+17	-4.72E+16	-1.20E+15	19.75789	
BIKE-PEDESTRIAN/No vehicles owned/Fringe Suburb PUMA	-2.719195	-1.68E+17	-4.79E+16	-4.076113	-1.82E+15	
DRIVE ALONE/1 vehicle owned/Central City PUMA	2.683362	18.46855	18.00309	5.550518	-1.43E+15	
CARPOOL/1 vehicle owned/Central City PUMA	2.026927	18.01169	17.83462	4.687055	2.295192	
PUBLIC TRANSIT/1 vehicle owned/Central City PUMA	0.8431778	17.51125	16.90728	4.908737	1.779183	
BIKE-PEDESTRIAN/1 vehicle owned/Central City PUMA	0.4606712	16.20304	15.05406	4.468717	1.140737	
DRIVE ALONE/1 vehicle owned/Inner Suburb PUMA	3.294548	15.94076	19.14068	4.921753	2.703971	
CARPOOL/1 vehicle owned/Inner Suburb PUMA	2.763345	15.86039	18.9213	4.063284	1.390728	
PUBLIC TRANSIT/1 vehicle owned/Inner Suburb PUMA	1.963443	15.18936	17.37378	3.746529	1.435724	
BIKE-PEDESTRIAN/1 vehicle owned/Inner Suburb PUMA	-0.4803114	13.27624	16.24044	2.732152	-1.53E+14	
DRIVE ALONE/1 vehicle owned/Outer Suburb PUMA	3.734166	11.96849	18.92783	4.251453	1.819902	
CARPOOL/1 vehicle owned/Outer Suburb PUMA	2.611585	12.03687	18.54094	3.719643	0.9086831	
PUBLIC TRANSIT/1 vehicle owned/Outer Suburb PUMA	-0.2238377	10.0435	-8.26E+14	1.697311	-0.8595711	
BIKE-PEDESTRIAN/1 vehicle owned/Outer Suburb PUMA	0.3616165	10.12662	14.41367	2.316638	-1.63E+14	
DRIVE ALONE/1 vehicle owned/Fringe Suburb PUMA	2.415812	18.03334	17.94668	4.539475	1.10116	
CARPOOL/1 vehicle owned/Fringe Suburb PUMA	1.162487	17.58197	17.30134	3.625685	0.5301496	
PUBLIC TRANSIT/1 vehicle owned/Fringe Suburb PUMA	-0.3384651	-5.24E+16	-1.40E+15	-4.58E+14	-3.97E+14	
BIKE-PEDESTRIAN/1 vehicle owned/Fringe Suburb PUMA	0.1479835	-5.30E+16	14.74236	2.686398	-0.0362225	
DRIVE ALONE/2 vehicles owned/Central City PUMA	3.643521	5.20387	9.81023	3.84901	6.013209	-14.75021
CARPOOL/2 vehicles owned/Central City PUMA	2.204189	3.864893	8.803113	1.870707	4.680607	-16.74151
PUBLIC TRANSIT/2 vehicles owned/Central City PUMA	0.8143498	2.776725	7.089288	1.936059	3.883191	-12.80529
BIKE-PEDESTRIAN/2 vehicles owned/Central City PUMA	0.7447014	2.125159	-2.39E+15	1.454351	4.038214	8.11205
DRIVE ALONE/2 vehicles owned/Inner Suburb City PUMA	5.142565	7.801764	11.04845	4.29178	7.851066	-13.67719
CARPOOL/2 vehicles owned/Inner Suburb City PUMA	3.174832	5.480823	9.643399	1.70295	6.263833	-15.9729
PUBLIC TRANSIT/2 vehicles owned/Inner Suburb City PUMA	2.36517	5.943494	8.031581	2.086306	4.934149	-12.76881
BIKE-PEDESTRIAN/2 vehicles owned/Inner Suburb City PUMA	0.1435211	4.41645	7.520448	0.6375414	3.991049	7.518235
DRIVE ALONE/2 vehicles owned/Outer Suburb City PUMA	6.038032	7.254652	11.09115	4.461328	7.562188	-14.01053
CARPOOL/2 vehicles owned/Outer Suburb City PUMA	3.913101	5.473895	9.538056	2.540434	5.850691	-15.87344
PUBLIC TRANSIT/2 vehicles owned/Outer Suburb City PUMA	2.115456	4.389605	6.732029	1.063165	3.827379	-14.75471
BIKE-PEDESTRIAN/2 vehicles owned/Outer Suburb City PUMA	0.7197884	3.018751	7.599219	1.067268	2.938115	7.593089

Appendix D-7: Washington, D.C.-Baltimore Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
DRIVE ALONE/2 vehicles owned/Fringe Suburb City PUMA	4.691387	7.890491	9.982915	3.65746	6.578984	-14.43293
CARPOOL/2 vehicles owned/Fringe Suburb City PUMA	2.808869	6.133741	8.411668	1.765691	4.721105	-15.89253
PUBLIC TRANSIT/2 vehicles owned/Fringe Suburb City PUMA	-0.7486312	-1.66E+17	-3.00E+15	-1.00472	2.617875	-16.54837
BIKE-PEDESTRIAN/2 vehicles owned/Fringe Suburb City PUMA	-0.8543125	2.655553	3.89537	0.3657067	-9.57E+14	7.07942
DRIVE ALONE/Occupation-specific auto accessibility	1.11E-10	4.88E-10	-5.35E-11	2.77E-10	-5.72E-11	2.04E-10
CARPOOL/Occupation-specific auto accessibility	1.24E-10	4.83E-10	-1.12E-10	3.08E-10	-6.73E-11	1.43E-10
PUBLIC TRANSIT/Occupation-specific transit accessibility	1.87E-09	4.85E-09	-3.25E-10	2.65E-09	-4.39E-10	2.02E-09
BIKE-PED/Occupation-specific transit accessibility	-8.13E-11	4.95E-09	4.22E-10	2.43E-09	-1.90E-09	1.82E-09
DRIVE ALONE/Female trip-maker	-0.346772	-0.1287858	0.3476731	-0.0599014	0.2272277	0.123706
CARPOOL/Female trip-maker	0.0069729	-0.5797674	0.6469457	-0.1484852	0.2909586	-0.0812499
PUBLIC TRANSIT/Female trip-maker	-0.0209701	0.4207301	1.080888	0.4744597	0.6325546	0.4999503
BIKE-PED/Female trip-maker	-1.540112	0.2286788	-0.2478344	0.1319718	-0.1151822	-0.0327633
DRIVE ALONE/45-64 year-old trip-maker	16.90074	8.039949	2.09181	4.132399	19.79035	17.21347
CARPOOL/45-64 year-old trip-maker	18.07381	8.127025	-3.92E+14	4.608302	20.28586	-1.09E+15
PUBLIC TRANSIT/45-64 year-old trip-maker	-2.36E+96	6.454115	3.177776	-1.52E+14	-1.20E+14	16.80105
BIKE-PED/45-64 year-old trip-maker	-2.96E+20	-9.53E+15	4.066341	5.327884	-7.72E+13	-2.97E+14
DRIVE ALONE/45-64 year-old trip-maker	-0.2411905	-0.6196663	0.224879	0.0077696	0.2971913	-0.0128491
CARPOOL/45-64 year-old trip-maker	-0.1850142	-0.6656602	0.0126365	0.0261388	0.0636868	0.1134363
PUBLIC TRANSIT/45-64 year-old trip-maker	0.0614359	-1.208221	0.0617896	-0.1690981	0.5744808	-0.0512755
BIKE-PED/45-64 year-old trip-maker	-0.2817022	-0.3054635	0.3862285	-0.4718325	-0.7250346	-0.0642672
DRIVE ALONE/Single-worker households trip-maker	0.0694647	-1.026223	-0.4456694	-0.638166	0.2218204	
CARPOOL/Single-worker households trip-maker	0.2755165	-1.418531	-0.0475767	-0.0026168	0.1956655	-0.5310854
PUBLIC TRANSIT/Single-worker households trip-maker	0.7438068	-0.2457194	-0.0020001	-0.2504761	0.4312795	-3.301591
BIKE-PED/Single-worker households trip-maker	1.582884	-0.3147449	-0.110557	-0.2313386	-0.3901523	-24.57396
DRIVE ALONE/Disabled trip-maker	10.7251	-1.12016	0.0695689	1.547986	0.1339656	0.9319195
CARPOOL/Disabled trip-maker	10.58997	-0.6029957	0.2405475	1.700334	0.189252	0.8991518
PUBLIC TRANSIT/Disabled trip-maker	10.73566	-1.933847	0.5105958	0.7217635	-0.1752021	0.8887933
BIKE-PED/Disabled trip-maker	-1.89E+16	-1.098492	-0.4594596	-1.708699	-0.3995012	0.0067633
Constants						
Central City PUMA Type (Level 2 model only)	0.7255883	0.2973889	1.434672	0.5627202	0.5521499	0.968113
Inner Suburb PUMA Type (Level 2 model only)	0.7401754	0.3726106	1.375637	0.6716587	0.5460336	1.020033
Outer Suburb PUMA Type (Level 2 model only)	0.6978819	0.5446277	1.376059	0.6703785	0.542048	0.9987143
Fringe Suburb PUMA Type (Level 2 model only)	0.7266937	0.2807613	1.416141	0.6143407	0.5061222	0.9966277
Level 1: Choice of PUMA Type						
INNER SUBURB PUMA choice	0.400627	-0.5060406	-0.2951818	-0.3662899	-0.470169	
OUTER SUBURB PUMA choice	0.2527171	-2.104178	-0.2105268	-0.182923	-0.0166666	
CENTRAL CITY PUMA choice * Household Income	-9.76E-06	-5.67E-06	-2.65E-06	1.30E-06	6.71E-07	9.37E-07
INNER SUBURB PUMA choice * Household Income	3.23E-06	0.0000137	5.37E-06	5.62E-06	0.0000149	0.0000205
OUTER SUBURB PUMA choice * Household Income	6.25E-06	0.0000143	-1.41E-06	0.0000107	0.0000137	0.0000231
FRINGE SUBURB PUMA choice * Household Income	-3.03E-06	8.86E-06	4.31E-06	-0.0000104	-9.77E-06	-8.12E-06
CENTRAL CITY PUMA choice * Renter Dummy Variable	0.1977127	0.3587568	-0.1310232	0.5402832	0.1296027	0.8533177
INNER SUBURB PUMA choice * Renter Dummy Variable	0.1278622	0.0986923	0.1268574	0.3017512	0.3705841	0.4292827
OUTER SUBURB PUMA choice * Renter Dummy Variable	-0.1793974	-0.2812767	-0.5197239	-0.1549186	-0.0407013	-0.0849761
FRINGE SUBURB PUMA choice * Renter Dummy Variable	-0.4484039	-0.5520981	-0.2712256	-0.3282772	-0.1981739	-0.3072237
CENTRAL CITY PUMA choice * Condo Owner Dummy Variable	0.5377845	-0.0342741	-1.07324	-0.0232413	-0.1921272	4.117784
INNER SUBURB PUMA choice * Condo Owner Dummy Variable	0.4953735	0.1782337	0.5237878	0.6495298	0.6674269	3.568435
OUTER SUBURB PUMA choice * Condo Owner Dummy Variable	0.0224969	-0.6044064	0.5320169	0.2209936	0.1777953	3.302773
FRINGE SUBURB PUMA choice * Condo Owner Dummy Variable	-2.050017	-1.245988	0.3544326	-3.082185	-0.2231137	-1.49E+07

Appendix D-7: Washington, D.C.-Baltimore Metropolitan Area, Working Families: Choice of Commute Mode Contingent on Choice of PUMA Type

Choice Outcome and Independent Variable (Estimated parameters are statistically significant at the .05 level unless indicated in red)	Married/DP w/children	Married/DP no children	Multiple families w/children	Multiple Families no children	Single Parent HH	Single Person HH
CENTRAL CITY PUMA choice * Persons in Household	-0.0046401	-0.2196909	-0.0706446	-0.0013895	0.0473634	
INNER SUBURB PUMA choice * Persons in Household	-0.0812805	-0.0693155	-0.0452298	0.1000204	-0.0596159	0.2546196
OUTER SUBURB PUMA choice * Persons in Household	-0.0750015	0.3206982	0.1016062	-0.0704352	-0.0986337	0.0906789
FRINGE SUBURB PUMA choice * Persons in Household	-0.0214983	0.0749513	-0.025412	0.0159687	0.0770147	
CENTRAL CITY PUMA choice * White HH Head Dummy Variable	-1.05602	-0.8321627	-2.279748	-0.091496	-2.068824	-0.6615932
INNER SUBURB PUMA choice * White HH Head Dummy Variable	-0.8027818	-0.8803319	-1.245508	-0.3177628	-1.16272	-0.8223959
OUTER SUBURB PUMA choice * White HH Head Dummy Variable	0.109028	0.19993	0.1187987	0.4126804	0.0605484	0.1325813
FRINGE SUBURB PUMA choice * White HH Head Dummy Variable	1.402514	0.8031672	0.7898769	0.8509996	0.8999799	1.313412
CENTRAL CITY PUMA choice * Female HH Head Dummy Variable	0.1885685	0.0131326	-0.103065	0.3048859	-0.1604237	0.0336718
INNER SUBURB PUMA choice * Female HH Head Dummy Variable	0.1197441	0.0695308	-0.1089211	0.3519442	0.0735724	0.3518074
OUTER SUBURB PUMA choice * Female HH Head Dummy Variable	0.0302838	0.1321625	-0.0577158	-0.0798396	0.1668614	0.2007493
FRINGE SUBURB PUMA choice * Female HH Head Dummy Variable	0.042003	-0.433374	-0.5094644	0.0352687	0.0708841	0.1176736
CENTRAL CITY PUMA choice * Senior HH Head Dummy Variable	4.992843	0.4488575	9.153755	-2794.466	6.90343	0.2339803
INNER SUBURB PUMA choice * Senior HH Head Dummy Variable	3.849266	1.058568	-1211675	0.2137209	5.285301	-0.0243994
OUTER SUBURB PUMA choice * Senior HH Head Dummy Variable	4.27884	-0.9987615	9.720228	0.8318248	-1078264	0.4226565
FRINGE SUBURB PUMA choice * Senior HH Head Dummy Variable	-1614985	0.9341152	-7130624	1.538388	7.608545	-0.103396
CENTRAL CITY PUMA choice * Age 45-64 HH Head Dummy Variable	-0.0155338	0.1173745	0.4237369	0.03419	0.0807065	-0.2916621
INNER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	0.1312653	0.0533293	0.2235375	-0.3595588	0.3065313	-0.1830941
OUTER SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.1118453	0.3354628	-0.349369	0.4384576	0.0132889	0.1507921
FRINGE SUBURB PUMA choice * Age 45-64 HH Head Dummy Variable	-0.25559	0.3024256	-0.4663079	0.6363629	-0.0309198	0.3453861
CENTRAL CITY PUMA choice * Single-worker HH Dummy Variable	0.2559947	-0.113921	0.0661753	0.2353708	0.428052	
INNER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.2940485	-0.1010391	-0.0599377	0.0347073	0.3809792	
OUTER SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.1547437	0.2060308	-0.2357562	-0.1762377	-0.0936159	
FRINGE SUBURB PUMA choice * Single-worker HH Dummy Variable	-0.2039085	-0.0782464	0.0554461	-0.3630623	-0.3778367	
PUMA Average High School Test Score	-6.87E-11	-8.83E-11	9.21E-11	-1.02E-10	7.29E-11	-1.36E-10
PUMA Average Occupation-specific Auto Accessibility	2.45E-11	4.71E-11	2.32E-11	2.88E-12	9.90E-13	1.63E-11
PUMA Average Auto Accessibility						

Appendix D-8: Commute Mode Preference of Working Family Households Compared to Similar Uyper-income Households

Metropolitan Region	Family Type	Central City PUMAs				2ndary Central City PUMAs				Inner Suburban PUMAs				Outer Suburban PUMAs			
		Drive alone	Carpool	Transit	Walk-bike	Drive alone	Carpool	Transit	Walk-bike	Drive alone	Carpool	Transit	Walk-bike	Drive alone	Carpool	Transit	Walk-bike
Atlanta	Married/domestic partners, children	0.95	1.57	0.59	2.25	na	na	na	na	0.95	1.44	1.95	sss	0.97	1.40	0.62	0.80
	Married/domestic partners, no children	0.94	1.57	1.39	0.64	na	na	na	na	0.89	2.92	0.27	0.28	0.87	2.44	0.17	sss
	Multiple families, children	1.88	0.37	sss	sss	na	na	na	na	2.04	0.34	sss	sss	1.09	0.69	sss	sss
	Multiple families, no children	0.92	1.22	4.72	1.65	na	na	na	na	0.98	1.45	0.74	0.38	0.96	1.66	sss	sss
	Single, children	1.16	sss	sss	sss	na	na	na	na	0.85	11.60	sss	sss	0.86	3.81	sss	sss
	Single, no children	1.02	0.94	0.83	0.43	na	na	na	na	1.01	0.82	1.03	0.82	1.02	0.75	0.45	0.57
Chicago	Married/domestic partners, children	1.02	16.31	0.13	0.65	0.84	sss	0.11	sss	1.03	5.42	0.10	1.10	1.06	1.95	0.20	1.46
	Married/domestic partners, no children	0.99	1.12	0.93	1.17	0.99	1.54	0.26	sss	0.95	2.18	0.97	0.56	0.98	2.22	0.54	2.42
	Multiple families, children	1.73	6.11	0.35	0.60	0.82	sss	sss	sss	1.45	2.04	0.27	0.00	1.16	2.11	0.13	0.05
	Multiple families, no children	0.94	0.81	0.99	2.31	0.99	0.94	sss	sss	0.94	3.03	0.70	1.68	1.04	1.11	0.57	0.89
	Single, children	1.37	0.43	1.91	0.22	3.10	0.14	sss	0.00	0.78	sss	1.37	sss	0.96	1.30	1.64	0.27
	Single, no children	0.91	1.22	1.35	0.33	0.96	1.17	sss	1.83	1.02	0.73	1.28	0.19	1.06	0.71	0.45	0.65
Dallas-Fort Worth	Married/domestic partners, children	0.79	6.57	sss	sss	1.16	0.58	sss	sss	0.92	1.81	0.17	sss	0.93	2.06	0.31	sss
	Married/domestic partners, no children	0.89	8.65	sss	0.06	0.92	1.36	sss	sss	0.96	1.68	3.51	0.19	1.02	0.78	0.00	0.34
	Multiple families, children	0.80	sss	sss	sss	1.47	0.58	sss	sss	0.88	2.49	sss	sss	0.80	3.40	sss	sss
	Multiple families, no children	0.83	6.81	sss	sss	0.79	sss	sss	sss	1.01	4.48	0.04	sss	0.89	3.59	sss	sss
	Single, children	1.29	0.32	sss	sss	0.82	sss	sss	sss	0.95	1.21	sss	sss	0.93	1.88	sss	sss
	Single, no children	1.05	1.17	0.81	0.10	0.94	sss	sss	sss	1.02	0.61	1.12	0.78	1.00	0.99	1.57	1.12
Baltimore & Washington, D.C	Married/domestic partners, children	1.01	1.30	0.66	1.63	na	na	na	na	1.01	0.98	0.89	0.64	1.05	0.83	0.40	1.08
	Married/domestic partners, no children	0.98	1.35	0.56	1.43	na	na	na	na	1.12	0.50	0.46	sss	1.02	1.02	0.24	1.14
	Multiple families, children	0.78	sss	sss	0.00	na	na	na	na	0.90	1.00	sss	sss	0.95	0.98	sss	sss
	Multiple families, no children	0.92	1.37	0.91	2.13	na	na	na	na	1.11	0.60	0.66	0.60	0.96	1.42	0.36	sss
	Single, children	0.87	13.12	0.71	sss	na	na	na	na	1.01	1.01	0.87	sss	0.97	1.97	0.48	sss
	Single, no children	1.01	0.40	1.05	1.17	na	na	na	na	1.01	0.71	0.89	1.95	1.00	0.85	0.57	6.23
Los Angeles	Married/domestic partners, children	0.98	1.16	1.77	0.49	0.86	1.38	sss	sss	0.92	1.45	sss	2.18	0.96	1.40	1.02	0.31
	Married/domestic partners, no children	0.95	1.46	sss	0.56	0.89	1.94	sss	sss	0.99	1.21	1.09	0.70	0.97	1.45	1.31	0.18
	Multiple families, children	0.79	3.56	sss	sss	0.78	2.99	sss	sss	0.90	1.80	sss	0.42	0.88	1.78	sss	sss
	Multiple families, no children	0.88	1.99	6.20	1.98	0.95	1.50	sss	sss	0.94	1.41	6.86	1.27	0.91	1.87	7.42	1.73
	Single, children	0.88	1.43	sss	sss	1.12	1.06	sss	sss	0.99	1.61	0.20	sss	0.94	1.84	0.20	sss
	Single, no children	0.91	2.66	3.02	1.18	0.98	1.55	sss	0.70	0.95	1.78	2.34	1.21	0.95	1.68	0.95	1.86
New York City	Married/domestic partners, children	0.96	0.95	1.09	1.01	1.01	sss	sss	sss	0.97	1.26	0.96	2.15	1.04	1.07	0.70	1.67
	Married/domestic partners, no children	0.97	sss	1.37	0.16	0.76	sss	sss	sss	0.76	2.18	2.00	1.96	0.90	1.81	1.00	4.45
	Multiple families, children	0.94	sss	0.75	1.59	0.51	sss	sss	sss	1.11	2.70	0.51	2.05	0.90	sss	0.27	sss
	Multiple families, no children	1.17	0.61	0.98	1.38	0.57	11.37	0.66	2.11	0.56	2.99	1.68	7.70	0.56	6.36	1.17	5.14
	Single, children	1.01	sss	0.78	0.61	0.90	0.96	sss	sss	1.14	2.01	0.52	0.64	0.98	3.11	0.35	sss
	Single, no children	0.65	3.81	0.93	2.16	0.85	4.81	sss	2.82	1.08	3.53	0.58	2.11	1.00	3.72	0.35	1.97
San Francisco	Married/domestic partners, children	0.85	4.49	0.87	1.59	0.97	1.21	sss	sss	0.92	2.24	0.38	1.30	0.94	1.70	0.72	2.65
	Married/domestic partners, no children	1.07	1.58	1.47	0.26	1.15	0.83	0.00	0.31	0.99	1.18	1.19	0.72	0.98	1.10	1.91	0.43
	Multiple families, children	2.08	0.29	0.23	0.00	1.81	0.72	0.33	0.13	2.69	0.30	0.09	0.14	2.02	0.47	0.11	0.19
	Multiple families, no children	1.02	0.86	0.82	1.63	0.87	2.76	sss	0.95	0.99	1.13	1.27	0.62	1.02	0.98	0.58	1.55
	Single, children	1.74	1.45	0.10	sss	0.83	sss	1.36	sss	0.92	1.34	2.00	0.91	0.89	2.03	1.14	sss
	Single, no children	1.04	0.87	1.12	0.76	0.84	5.45	1.10	2.17	0.93	0.90	2.43	1.80	0.94	1.56	1.49	1.65

Key:

- Indicates working-family commute mode probability is 50% or more greater than for working families
- Indicates working-family commute mode probability is 50% or more greater than for wealthier families