

Appendix C: Transit Model



APPENDIX C

Transit Model

INTRODUCTION

This appendix presents the methodology and models for the development of the non-program trips/ridership for each of the three alternatives in Chapter XIII.

The following models are based on the rural transit demand model and methodology presented in Chapter VI.

Alternative Model Results

The following tables present the results of the non-program trips for each alternative. These tables are based on the service area and operations of the transit alternatives from Chapter XIII.

**Table C-1
2006 Estimated Transit Demand using the TCRP Method**

Census Tract	Census Block Group	Estimated Annual Passenger-Trip Demand					Estimated Daily Transit Demand		Daily Demand Density (Trips per Sq. Mile per Day)
		Elderly	Mobility Limited	Elderly + Mobility Limited	General Public	Total Annual Trips	#	%	
940200	20	0	0	0	10	10	0	0.1%	0.0
	21	0	0	0	10	10	0	0.1%	0.0
	22	0	0	0	10	10	0	0.1%	0.0
	23	120	30	150	430	580	2	5.6%	0.4
	24	110	30	140	420	560	2	5.5%	0.3
	26	10	0	10	30	40	0	0.4%	0.0
940200	17	40	20	60	130	190	1	1.9%	0.1
	19	20	10	30	50	80	0	0.8%	0.0
	25	60	30	90	180	270	1	2.6%	0.4
940100	30	140	20	160	470	630	2	6.1%	0.6
	31	0	0	0	0	0	0	0.0%	0.0
	32	200	40	240	710	950	4	9.3%	0.5
	33	0	0	0	10	10	0	0.1%	0.0
	34	10	0	10	30	40	0	0.4%	0.0
	35	0	0	0	10	10	0	0.1%	0.0
	43	0	0	0	0	0	0	0.0%	0.0
940100	36	0	0	0	0	0	0	0.0%	0.0
940200	37	20	0	20	20	40	0	0.4%	0.0
	38	0	0	0	0	0	0	0.0%	0.0
000200	1	280	20	300	290	590	2	5.7%	0.2
	2	110	10	120	120	240	1	2.3%	0.1
	3	130	10	140	130	270	1	2.6%	0.1
	44	40	0	40	40	80	0	0.8%	0.1
	45	80	10	90	90	180	1	1.8%	0.3
000200	47	720	10	730	360	1,090	4	10.6%	4.4
000200	48	640	60	700	270	970	4	9.4%	10.1
000100	4	410	20	430	250	680	3	6.6%	0.2
000100	5	20	0	20	20	40	0	0.4%	0.2
	6	520	100	620	470	1,090	4	10.6%	2.5
060100	39	60	10	70	60	130	1	1.3%	0.0
	40	50	10	60	50	110	0	1.1%	0.2
	41	630	90	720	650	1,370	5	13.3%	2.0
Totals		4,420	530	4,950	5,320	10,270	40		23.10

**Table C-2
2006 Estimated Transit Demand using the TCRP Method**

Census Tract	Census Block Group	Estimated Annual Passenger-Trip Demand					Estimated Daily Transit Demand		Daily Demand Density (Trips per Sq. Mile per Day)
		Elderly	Mobility Limited	Elderly + Mobility Limited	General Public	Total Annual Trips	#	%	
940200	20	0	0	0	10	10	0	0.1%	0.0
	21	0	0	0	10	10	0	0.1%	0.0
	22	0	0	0	10	10	0	0.1%	0.0
	23	120	30	150	420	570	2	5.7%	0.4
	24	110	20	130	410	540	2	5.4%	0.3
	46	0	0	0	0	0	0	0.0%	0.0
940200	14	0	0	0	10	10	0	0.1%	0.0
	17	40	20	60	130	190	1	1.9%	0.1
	25	60	30	90	170	260	1	2.6%	0.4
940100	30	130	20	150	460	610	2	6.1%	0.6
	31	0	0	0	0	0	0	0.0%	0.0
	32	200	30	230	690	920	4	9.3%	0.5
	33	0	0	0	10	10	0	0.1%	0.0
	34	10	0	10	30	40	0	0.4%	0.0
	35	0	0	0	10	10	0	0.1%	0.0
	43	0	0	0	0	0	0	0.0%	0.0
940100	10	0	0	0	0	0	0	0.0%	0.0
	36	0	0	0	0	0	0	0.0%	0.0
940200	27	20	0	20	20	40	0	0.4%	0.0
	28	10	0	10	10	20	0	0.2%	0.0
	37	20	0	20	20	40	0	0.4%	0.0
	38	0	0	0	0	0	0	0.0%	0.0
000200	1	270	20	290	290	580	2	5.8%	0.2
	2	110	10	120	120	240	1	2.4%	0.1
	3	120	10	130	130	260	1	2.6%	0.1
	44	40	0	40	40	80	0	0.8%	0.1
	45	80	10	90	80	170	1	1.7%	0.2
000200	47	680	10	690	340	1,030	4	10.4%	4.2
000200	48	640	60	700	270	970	4	9.8%	10.1
000100	4	400	20	420	240	660	3	6.6%	0.2
000100	5	20	0	20	20	40	0	0.4%	0.2
	6	500	90	590	450	1,040	4	10.5%	2.4
060100	39	60	10	70	60	130	1	1.3%	0.0
	40	50	10	60	50	110	0	1.1%	0.2
	41	610	80	690	640	1,330	5	13.4%	1.9
Totals		4,300	480	4,780	5,150	9,930	39		22.57

**Table C-3
2006 Estimated Transit Demand using the TCRP Method**

Census Tract	Census Block Group	Estimated Annual Passenger-Trip Demand					Estimated Daily Transit Demand		Daily Demand Density (Trips per Sq. Mile per Day)
		Elderly	Mobility Limited	Elderly + Mobility Limited	General Public	Total Annual Trips	#	%	
940200	12	10	0	10	40	50	0	0.6%	0.0
	13	0	0	0	0	0	0	0.0%	0.0
	15	20	0	20	70	90	0	1.1%	0.0
	20	0	0	0	10	10	0	0.1%	0.0
	21	0	0	0	10	10	0	0.1%	0.0
	22	0	0	0	10	10	0	0.1%	0.0
	23	90	20	110	320	430	2	5.4%	0.3
	24	80	20	100	310	410	2	5.2%	0.2
	26	10	0	10	20	30	0	0.4%	0.0
46	0	0	0	0	0	0	0.0%	0.0	
940200	14	0	0	0	10	10	0	0.1%	0.0
	16	20	10	30	50	80	0	1.0%	0.0
	17	30	20	50	90	140	1	1.8%	0.1
	18	0	0	0	10	10	0	0.1%	0.0
	19	10	10	20	40	60	0	0.8%	0.0
	25	40	20	60	130	190	1	2.4%	0.3
	42	0	0	0	10	10	0	0.1%	0.0
940100	7	10	0	10	30	40	0	0.5%	0.0
	8	10	0	10	40	50	0	0.6%	0.0
	9	0	0	0	10	10	0	0.1%	0.0
	30	100	20	120	340	460	2	5.8%	0.4
	31	0	0	0	0	0	0	0.0%	0.0
	32	150	30	180	520	700	3	8.8%	0.4
	33	0	0	0	10	10	0	0.1%	0.0
	34	10	0	10	20	30	0	0.4%	0.0
	35	0	0	0	0	0	0	0.0%	0.0
43	0	0	0	0	0	0	0.0%	0.0	
940100	10	0	0	0	0	0	0	0.0%	0.0
	36	0	0	0	0	0	0	0.0%	0.0
940200	11	0	0	0	10	10	0	0.1%	0.0
	27	10	0	10	20	30	0	0.4%	0.0
	28	10	0	10	10	20	0	0.3%	0.0
	29	10	0	10	10	20	0	0.3%	0.0
	37	10	0	10	20	30	0	0.4%	0.0
	38	0	0	0	0	0	0	0.0%	0.0
000200	1	200	20	220	210	430	2	5.4%	0.2
	2	80	10	90	90	180	1	2.3%	0.1
	3	90	10	100	100	200	1	2.5%	0.1
	44	30	0	30	30	60	0	0.8%	0.1
	45	60	0	60	60	120	0	1.5%	0.2
000200	47	520	10	530	270	800	3	10.1%	3.3
000200	48	490	50	540	200	740	3	9.3%	7.7
000100	4	290	10	300	180	480	2	6.0%	0.1
000100	5	20	0	20	20	40	0	0.5%	0.2
	6	370	70	440	340	780	3	9.8%	1.8
060100	39	40	10	50	40	90	0	1.1%	0.0
	40	40	10	50	40	90	0	1.1%	0.1
	41	450	70	520	480	1,000	4	12.6%	1.5
Totals		3,310	420	3,730	4,230	7,960	31		17.31