

# Appendix D: Transit Demand Model

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# Transit Demand Model

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## INTRODUCTION

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

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

## RURAL TRANSIT DEMAND METHODOLOGY

An important source of information and the most recent research regarding demand for transit services in rural areas and for the elderly and disabled is the *Transit Cooperative Research Program (TCRP) Project A-3: Rural Transit Demand Estimation Techniques*. This study (completed by SG Associates, Inc. and LSC Transportation Consultants, Inc.) represents the first substantial research into the demand for transit service in rural areas and small communities since the early 1980s.

The TCRP study presents a series of formulas relating the number of participants in 185 transit agencies across the United States. The TCRP analytical technique uses a logit model approach for the estimation of transit demand, similar to that commonly used in urban transportation models. This model incorporates an exponential equation which relates the quantity of service and the demographics of the area.

As with any other product or service, the demand for transit service is a function of the level of supply provided. In using the TCRP methodology to identify the feasible maximum demand, it is necessary to assume a high supply level measured in vehicle-miles per square-mile per year. The high supply level is the upper-bound “density” of similar rural services provided in the United States. The

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assessment of demand for the rural areas, therefore, could be considered to be the maximum potential ridership if a high level of rural service were made available throughout all of the study area. Note that the TCRP methodology is based upon the permanent population.

A maximum level of service would be to serve every portion of the study area with four round-trips (eight one-way trips) daily Monday through Friday. This equates to approximately 2,400 vehicle-miles of transit service per square mile per year. This is a very high level of service for rural systems.

### **Regional Demand**

In addition to the above analysis, LSC has developed a rough estimate of the amount of regional demand that could be generated from the study area. The calculation was based on the distribution (percentage) of the employees commuting to another county from their resident county (according to the US Census). For the purpose of this analysis, distribution is defined as the percentage of the total number of trips traveling between counties.

LSC used the county totals in the 2005 TCRP demand model multiplied by the out-of-county regional trip distribution for each county to calculate the regional transit demand. The above method is meant to separate the study area's regional demand from local transit demand shown in the TCRP demand model.

### **Alternative Model Results**

Tables D-1 through D-4 present the results of the non-program demand for each alternative. These tables are based on the service area and operations of the transit alternatives from Chapter XII. Table D-5 presents the overall results of the four models based on the regional demand and distribution.

**Table D-1  
Estimated Non-Program Transit Demand Using the TCRP Method - Alternative I**

Census Tract	Census Block Group	Area Description	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 Demand	#	%	
1	2	Harlem	456	272	728	2,236	2,964	12	2.6%	3.8
2	1	Western Blaine County	536	119	655	3,068	3,723	15	3.2%	0.0
	2	North Chinook	602	34	636	1,638	2,274	9	2.0%	7.7
	3	South Chinook	602	170	772	1,326	2,098	8	1.8%	18.4
9401	1	North Fort Belknap Reservation; Fort Belknap Agency	296	170	466	5,538	6,004	24	5.2%	0.1
9402	1	SW Fort Belknap Reservation; Hays	235	170	405	4,680	5,085	20	4.4%	0.1
	2	Fort Belknap Reservation; SE Blaine County	122	170	292	1,976	2,268	9	2.0%	0.0
			<b>2,848</b>	<b>1,105</b>	<b>3,953</b>	<b>20,462</b>	<b>24,415</b>	<b>96</b>	<b>21.2%</b>	<b>0.0</b>
101	1	Northwest area of Great Falls	757	289	1,046	2,938	3,984	16	3.5%	1.5
104	1	Cascade	522	238	760	1,352	2,112	8	1.8%	0.5
106	1	East of Great Falls; Salem	432	85	517	858	1,375	5	1.2%	0.0
	2	Belt; Armington; North of US Highway 87	620	170	790	1,196	1,986	8	1.7%	0.4
	3	South of Great Falls; Tracy; Centerville	437	136	573	1,378	1,951	8	1.7%	0.1
	2	NW Cascade County	620	306	926	1,378	2,304	9	2.0%	0.1
	3	Fort Shaw	808	425	1,233	2,938	4,171	16	3.6%	0.1
			<b>4,197</b>	<b>1,649</b>	<b>5,846</b>	<b>12,038</b>	<b>17,884</b>	<b>70</b>	<b>15.6%</b>	<b>0.1</b>
1	1	Big Sandy	545	136	681	988	1,669	7	1.5%	1.1
	2	NE Chouteau County	409	136	545	1,768	2,313	9	2.0%	0.0
	2	South of Fort Benton	541	51	592	1,144	1,736	7	1.5%	1.8
	3	Fort Benton	658	119	777	962	1,739	7	1.5%	1.1
9401	1	NE Chouteau County; Rocky Boy's Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Southern portion of Rocky Boy's Reservation; West of Rocky Boy	61	136	197	5,018	5,215	20	4.5%	0.6
9402	1	Southern portion of Rocky Boy's Reservation; South of Rocky Boy	0	0	0	0	0	0	0.0%	0.0
			<b>2,214</b>	<b>578</b>	<b>2,792</b>	<b>9,880</b>	<b>12,672</b>	<b>50</b>	<b>11.0%</b>	<b>0.0</b>
401	2	Central portion of Hill County; Kremlin; Fresno	423	187	610	1,092	1,702	7	1.5%	0.0
402	2	SE Hill County; Havre City/County Airport	437	68	505	1,144	1,649	6	1.4%	0.0
403	1	North of Havre	291	85	376	780	1,156	5	1.0%	0.5
	2	Northern portion of Havre; Riverside Trailer Court	61	357	418	1,976	2,394	9	2.1%	10.5
	3	Havre; Intersection of 1st Street and 14th Avenue	475	289	764	5,096	5,860	23	5.1%	25.8
	4	NW area of Havre; Hillside Trailer Court; Amtrak Station	226	238	464	2,340	2,804	11	2.4%	5.9
	5	Havre; North of Northern Montana College	719	0	719	1,742	2,461	10	2.1%	19.4
	6	Havre; South of Amtrak	240	51	291	1,560	1,851	7	1.6%	65.4
404	1	SW of Havre	428	306	734	2,080	2,814	11	2.4%	1.3
	2	South of Havre; Northern Montana Hospital	931	102	1,033	676	1,709	7	1.5%	0.9
	3	Havre; Northern Montana College	710	187	897	1,924	2,821	11	2.5%	20.8
	4	Havre; NW intersection of 5th Avenue and 9th Street	418	238	656	1,326	1,982	8	1.7%	59.3
405	1	Havre; SE intersection of 5th Avenue and 6th Street	447	136	583	806	1,389	5	1.2%	45.8
	2	Havre; SE intersection of 5th Avenue and 9th Street	165	0	165	598	763	3	0.7%	18.1
	3	Southern portion of Havre; East of Northern Montana College	414	221	635	1,482	2,117	8	1.8%	6.6
9401	1	Northern portion of Rocky Boy's Reservation	94	102	196	1,170	1,366	5	1.2%	0.1
	2	Rocky Boy's Reservation; South of Box Elder	0	0	0	0	0	0	0.0%	0.0
9402	1	Rocky Boy's Reservation; East of Rocky Boy	277	102	379	3,406	3,785	15	3.3%	0.2
	2	Southern portion of Hill County; Rocky Boy's Reservation; Rocky Boy	136	153	289	2,756	3,045	12	2.6%	0.6
			<b>6,890</b>	<b>2,822</b>	<b>9,712</b>	<b>31,954</b>	<b>41,666</b>	<b>163</b>	<b>36.2%</b>	<b>0.0</b>
1	1	Northern portion of Judith Basin County	254	238	492	2,444	2,936	12	2.6%	0.0
	2	Stanford	592	136	728	1,534	2,262	9	2.0%	0.0
			<b>846</b>	<b>374</b>	<b>1,220</b>	<b>3,978</b>	<b>5,198</b>	<b>20</b>	<b>4.5%</b>	<b>0.0</b>
601	2	Malta Airport; Marion Hills Country Club	282	119	401	1,014	1,415	6	1.2%	2.0
	3	Malta; East of Malta Amtrak Station	522	153	675	520	1,195	5	1.0%	2.6
	4	Malta; Malta Amtrak Station	747	119	866	1,690	2,556	10	2.2%	18.7
9401	1	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Coburg	0	0	0	0	0	0	0.0%	0.0
9402	1	South of Fort Belknap Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Dodson	52	0	52	364	416	2	0.4%	0.0
			<b>1,603</b>	<b>391</b>	<b>1,994</b>	<b>3,588</b>	<b>5,582</b>	<b>22</b>	<b>4.9%</b>	<b>0.0</b>
1	1	Northern portion of Teton County; Pendroy	315	136	451	2,158	2,609	10	2.3%	0.0
2	1	SE portion of Teton; Greenfield; along US Highway 89	249	51	300	832	1,132	4	1.0%	0.1
	3	North of Choteau	902	187	1,089	1,820	2,909	11	2.5%	0.7
	4	Choteau	686	68	754	1,664	2,418	9	2.1%	1.2
			<b>2,153</b>	<b>442</b>	<b>2,595</b>	<b>6,474</b>	<b>9,069</b>	<b>30</b>	<b>6.6%</b>	<b>0.0</b>
<b>Totals</b>			<b>20,751</b>	<b>7,361</b>	<b>28,112</b>	<b>88,374</b>	<b>116,486</b>	<b>451</b>	<b>100%</b>	<b>0.24</b>

Source: 2000 Census, LSC, 2007.

Table D-2 Estimated Non-Program Transit Demand Using the TCRP Method - Alternative II										
Census Tract	Census Block Group	Area Description	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 Demand	#	%	
1	2	Harlem	428	255	683	2,106	2,789	11	2.6%	3.5
2	1	Western Blaine County	498	119	617	2,860	3,477	14	3.2%	0.0
	2	North Chinook	550	34	584	1,508	2,092	8	1.9%	7.1
	3	South Chinook	536	153	689	1,196	1,885	7	1.8%	16.5
9401	1	North Fort Belknap Reservation; Fort Belknap Agency	277	153	430	5,174	5,604	22	5.2%	0.1
9402	1	SW Fort Belknap Reservation; Hays	216	153	369	4,368	4,737	19	4.4%	0.0
	2	Fort Belknap Reservation; SE Blaine County	113	170	283	1,846	2,129	8	2.0%	0.0
			<b>2,618</b>	<b>1,037</b>	<b>3,655</b>	<b>19,058</b>	<b>22,713</b>	<b>89</b>	<b>21.2%</b>	<b>0.0</b>
101	1	Northwest area of Great Falls	700	272	972	2,756	3,728	15	3.5%	1.4
104	1	Cascade	489	221	710	1,274	1,984	8	1.8%	0.5
106	1	East of Great Falls; Salem	400	85	485	806	1,291	5	1.2%	0.0
	2	Belt; Armington; North of US Highway 87	578	153	731	1,118	1,849	7	1.7%	0.4
	3	South of Great Falls; Tracy; Centerville	404	136	540	1,274	1,814	7	1.7%	0.1
	2	NW Cascade County	578	289	867	1,274	2,141	8	2.0%	0.1
	3	Fort Shaw	752	391	1,143	2,730	3,873	15	3.6%	0.1
			<b>3,901</b>	<b>1,547</b>	<b>5,448</b>	<b>11,232</b>	<b>16,680</b>	<b>65</b>	<b>15.5%</b>	<b>0.1</b>
1	1	Big Sandy	508	119	627	910	1,537	6	1.4%	1.0
	2	NE Chouteau County	381	136	517	1,664	2,181	9	2.0%	0.0
	3	South of Fort Benton	508	34	542	1,066	1,608	6	1.5%	1.7
	3	Fort Benton	611	119	730	884	1,614	6	1.5%	1.0
9401	1	NE Chouteau County; Rocky Boy's Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Southern portion of Rocky Boy's Reservation; West of Rocky Boy	56	136	192	4,680	4,872	19	4.5%	0.6
9402	1	Southern portion of Rocky Boy's Reservation; South of Rocky Boy	0	0	0	0	0	0	0.0%	0.0
			<b>2,063</b>	<b>544</b>	<b>2,607</b>	<b>9,204</b>	<b>11,811</b>	<b>46</b>	<b>11.0%</b>	<b>0.0</b>
401	2	Central portion of Hill County; Kremlin; Fresno	395	187	582	1,014	1,596	6	1.5%	0.0
402	2	SE Hill County; Havre City/County Airport	404	68	472	1,066	1,538	6	1.4%	0.0
403	1	North of Havre	268	85	353	728	1,081	4	1.0%	0.4
	2	Northern portion of Havre; Riverside Trailer Court	56	340	396	1,872	2,268	9	2.1%	10.0
	3	Havre; Intersection of 1st Street and 14th Avenue	451	272	723	4,836	5,559	22	5.2%	24.5
	4	NW area of Havre; Hillside Trailer Court; Amtrak Station	207	221	428	2,158	2,586	10	2.4%	5.5
	5	Havre; North of Northern Montana College	649	0	649	1,586	2,235	9	2.1%	17.6
	6	Havre; South of Amtrak	240	51	291	1,560	1,851	7	1.7%	65.4
404	1	SW of Havre	395	289	684	1,950	2,634	10	2.5%	1.2
	2	South of Havre; Northern Montana Hospital	865	102	967	624	1,591	6	1.5%	0.8
	3	Havre; Northern Montana College	710	187	897	1,924	2,821	11	2.6%	20.8
	4	Havre; NW intersection of 5th Avenue and 9th Street	418	238	656	1,326	1,982	8	1.8%	59.3
405	1	Havre; SE intersection of 5th Avenue and 6th Street	291	102	393	546	939	4	0.9%	31.0
	2	Havre; SE intersection of 5th Avenue and 9th Street	122	0	122	442	564	2	0.5%	13.4
	3	Southern portion of Havre; East of Northern Montana College	381	204	585	1,378	1,963	8	1.8%	6.1
9401	1	Northern portion of Rocky Boy's Reservation	89	102	191	1,092	1,283	5	1.2%	0.1
	2	Rocky Boy's Reservation; South of Box Elder	0	0	0	0	0	0	0.0%	0.0
9402	1	Rocky Boy's Reservation; East of Rocky Boy	259	102	361	3,172	3,533	14	3.3%	0.2
	2	Southern portion of Hill County; Rocky Boy's Reservation; Rocky Boy	127	153	280	2,574	2,854	11	2.7%	0.6
			<b>6,326</b>	<b>2,703</b>	<b>9,029</b>	<b>29,848</b>	<b>38,877</b>	<b>152</b>	<b>36.2%</b>	<b>0.0</b>
1	1	Northern portion of Judith Basin County	240	221	461	2,262	2,723	11	2.5%	0.0
	2	Stanford	550	136	686	1,430	2,116	8	2.0%	0.0
			<b>790</b>	<b>357</b>	<b>1,147</b>	<b>3,692</b>	<b>4,839</b>	<b>19</b>	<b>4.5%</b>	<b>0.0</b>
601	2	Malta Airport; Marion Hills Country Club	263	119	382	936	1,318	5	1.2%	1.9
	3	Malta; East of Malta Amtrak Station	479	136	615	468	1,083	4	1.0%	2.4
	4	Malta; Malta Amtrak Station	747	119	866	1,690	2,556	10	2.4%	18.7
9401	1	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Coburg	0	0	0	0	0	0	0.0%	0.0
9402	1	South of Fort Belknap Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Dodson	47	0	47	338	385	2	0.4%	0.0
			<b>1,537</b>	<b>374</b>	<b>1,911</b>	<b>3,432</b>	<b>5,343</b>	<b>21</b>	<b>5.0%</b>	<b>0.0</b>
1	1	Northern portion of Teton County; Pendroy	296	136	432	2,002	2,434	10	2.3%	0.0
2	1	SE portion of Teton; Greenfield; along US Highway 89	235	51	286	780	1,066	4	1.0%	0.1
	3	North of Choteau	837	187	1,024	1,690	2,714	11	2.5%	0.7
	4	Choteau	635	68	703	1,560	2,263	9	2.1%	1.1
			<b>2,002</b>	<b>442</b>	<b>2,444</b>	<b>6,032</b>	<b>8,476</b>	<b>28</b>	<b>6.6%</b>	<b>0.0</b>
<b>Totals</b>			<b>19,237</b>	<b>7,004</b>	<b>26,241</b>	<b>82,498</b>	<b>108,739</b>	<b>421</b>	<b>100%</b>	<b>0.23</b>

Source: 2000 Census, LSC, 2007.

Table D-3 Estimated Non-Program Transit Demand Using the TCRP Method - Alternative III										
Census Tract	Census Block Group	Area Description	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 Demand	#	%	
1	2	Harlem	428	255	683	2,106	2,789	11	2.6%	3.5
2	1	Western Blaine County	498	119	617	2,860	3,477	14	3.2%	0.0
	2	North Chinook	550	34	584	1,508	2,092	8	1.9%	7.1
	3	South Chinook	536	153	689	1,196	1,885	7	1.8%	16.5
9401	1	North Fort Belknap Reservation; Fort Belknap Agency	277	153	430	5,174	5,604	22	5.2%	0.1
9402	1	SW Fort Belknap Reservation; Hays	216	153	369	4,368	4,737	19	4.4%	0.0
	2	Fort Belknap Reservation; SE Blaine County	113	170	283	1,846	2,129	8	2.0%	0.0
			<b>2,618</b>	<b>1,037</b>	<b>3,655</b>	<b>19,058</b>	<b>22,713</b>	<b>89</b>	<b>21.2%</b>	<b>0.0</b>
101	1	Northwest area of Great Falls	700	272	972	2,756	3,728	15	3.5%	1.4
104	1	Cascade	489	221	710	1,274	1,984	8	1.8%	0.5
106	1	East of Great Falls; Salem	400	85	485	806	1,291	5	1.2%	0.0
	2	Belt; Armington; North of US Highway 87	578	153	731	1,118	1,849	7	1.7%	0.4
	3	South of Great Falls; Tracy; Centerville	404	136	540	1,274	1,814	7	1.7%	0.1
	2	NW Cascade County	578	289	867	1,274	2,141	8	2.0%	0.1
	3	Fort Shaw	752	391	1,143	2,730	3,873	15	3.6%	0.1
			<b>3,901</b>	<b>1,547</b>	<b>5,448</b>	<b>11,232</b>	<b>16,680</b>	<b>65</b>	<b>15.5%</b>	<b>0.1</b>
1	1	Big Sandy	508	119	627	910	1,537	6	1.4%	1.0
	2	NE Chouteau County	381	136	517	1,664	2,181	9	2.0%	0.0
	2	South of Fort Benton	508	34	542	1,066	1,608	6	1.5%	1.7
	3	Fort Benton	611	119	730	884	1,614	6	1.5%	1.0
9401	1	NE Chouteau County; Rocky Boy's Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Southern portion of Rocky Boy's Reservation; West of Rocky Boy	56	136	192	4,680	4,872	19	4.5%	0.6
9402	1	Southern portion of Rocky Boy's Reservation; South of Rocky Boy	0	0	0	0	0	0	0.0%	0.0
			<b>2,063</b>	<b>544</b>	<b>2,607</b>	<b>9,204</b>	<b>11,811</b>	<b>46</b>	<b>11.0%</b>	<b>0.0</b>
401	2	Central portion of Hill County; Kremlin; Fresno	395	187	582	1,014	1,596	6	1.5%	0.0
402	2	SE Hill County; Havre City/County Airport	404	68	472	1,066	1,538	6	1.4%	0.0
403	1	North of Havre	268	85	353	728	1,081	4	1.0%	0.4
	2	Northern portion of Havre; Riverside Trailer Court	56	340	396	1,872	2,268	9	2.1%	10.0
	3	Havre; Intersection of 1st Street and 14th Avenue	451	272	723	4,836	5,559	22	5.2%	24.5
	4	NW area of Havre; Hillside Trailer Court; Amtrak Station	207	221	428	2,158	2,586	10	2.4%	5.5
	5	Havre; North of Northern Montana College	649	0	649	1,586	2,235	9	2.1%	17.6
	6	Havre; South of Amtrak	240	51	291	1,560	1,851	7	1.7%	65.4
404	1	SW of Havre	395	289	684	1,950	2,634	10	2.5%	1.2
	2	South of Havre; Northern Montana Hospital	865	102	967	624	1,591	6	1.5%	0.8
	3	Havre; Northern Montana College	710	187	897	1,924	2,821	11	2.6%	20.8
	4	Havre; NW intersection of 5th Avenue and 9th Street	418	238	656	1,326	1,982	8	1.8%	59.3
405	1	Havre; SE intersection of 5th Avenue and 6th Street	291	102	393	546	939	4	0.9%	31.0
	2	Havre; SE intersection of 5th Avenue and 9th Street	122	0	122	442	564	2	0.5%	13.4
	3	Southern portion of Havre; East of Northern Montana College	381	204	585	1,378	1,963	8	1.8%	6.1
9401	1	Northern portion of Rocky Boy's Reservation	89	102	191	1,092	1,283	5	1.2%	0.1
	2	Rocky Boy's Reservation; South of Box Elder	0	0	0	0	0	0	0.0%	0.0
9402	1	Rocky Boy's Reservation; East of Rocky Boy	259	102	361	3,172	3,533	14	3.3%	0.2
	2	Southern portion of Hill County; Rocky Boy's Reservation; Rocky Boy	127	153	280	2,574	2,854	11	2.7%	0.6
			<b>6,326</b>	<b>2,703</b>	<b>9,029</b>	<b>29,848</b>	<b>38,877</b>	<b>152</b>	<b>36.2%</b>	<b>0.0</b>
1	1	Northern portion of Judith Basin County	240	221	461	2,262	2,723	11	2.5%	0.0
	2	Stanford	550	136	686	1,430	2,116	8	2.0%	0.0
			<b>790</b>	<b>357</b>	<b>1,147</b>	<b>3,692</b>	<b>4,839</b>	<b>19</b>	<b>4.5%</b>	<b>0.0</b>
601	2	Malta Airport; Marion Hills Country Club	263	119	382	936	1,318	5	1.2%	1.9
	3	Malta; East of Malta Amtrak Station	479	136	615	468	1,083	4	1.0%	2.4
	4	Malta; Malta Amtrak Station	747	119	866	1,690	2,556	10	2.4%	18.7
9401	1	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Coburg	0	0	0	0	0	0	0.0%	0.0
9402	1	South of Fort Belknap Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Dodson	47	0	47	338	385	2	0.4%	0.0
			<b>1,537</b>	<b>374</b>	<b>1,911</b>	<b>3,432</b>	<b>5,343</b>	<b>21</b>	<b>5.0%</b>	<b>0.0</b>
1	1	Northern portion of Teton County; Pendroy	296	136	432	2,002	2,434	10	2.3%	0.0
2	1	SE portion of Teton; Greenfield; along US Highway 89	235	51	286	780	1,066	4	1.0%	0.1
	3	North of Choteau	837	187	1,024	1,690	2,714	11	2.5%	0.7
	4	Choteau	635	68	703	1,560	2,263	9	2.1%	1.1
			<b>2,002</b>	<b>442</b>	<b>2,444</b>	<b>6,032</b>	<b>8,476</b>	<b>28</b>	<b>6.6%</b>	<b>0.0</b>
<b>Totals</b>			<b>19,237</b>	<b>7,004</b>	<b>26,241</b>	<b>82,498</b>	<b>108,739</b>	<b>421</b>	<b>100%</b>	<b>0.23</b>

Source: 2000 Census, LSC, 2007.

Census Tract	Census Block Group	Area Description	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 Demand	#	%	
1	2	Harlem	404	238	642	2,002	2,644	10	2.6%	3.3
2	1	Western Blaine County	479	119	598	2,756	3,354	13	3.3%	0.0
	2	North Chinook	526	34	560	1,430	1,990	8	1.9%	6.7
	3	South Chinook	536	153	689	1,196	1,885	7	1.8%	16.5
9401	1	North Fort Belknap Reservation; Fort Belknap Agency	263	153	416	4,966	5,382	21	5.3%	0.1
9402	1	SW Fort Belknap Reservation; Hays	212	153	365	4,186	4,551	18	4.5%	0.0
	2	Fort Belknap Reservation; SE Blaine County	108	170	278	1,768	2,046	8	2.0%	0.0
			<b>2,529</b>	<b>1,020</b>	<b>3,549</b>	<b>18,304</b>	<b>21,853</b>	<b>86</b>	<b>21.4%</b>	<b>0.0</b>
101	1	Northwest area of Great Falls	672	272	944	2,626	3,570	14	3.5%	1.3
104	1	Cascade	465	221	686	1,222	1,908	7	1.9%	0.5
106	1	East of Great Falls; Salem	385	85	470	754	1,224	5	1.2%	0.0
	2	Belt; Armington; North of US Highway 87	555	153	708	1,066	1,774	7	1.7%	0.3
	3	South of Great Falls; Tracy; Centerville	390	136	526	1,222	1,748	7	1.7%	0.1
	2	NW Cascade County	555	289	844	1,222	2,066	8	2.0%	0.1
	3	Fort Shaw	724	391	1,115	2,626	3,741	15	3.7%	0.1
			<b>3,746</b>	<b>1,547</b>	<b>5,293</b>	<b>10,738</b>	<b>16,031</b>	<b>63</b>	<b>15.7%</b>	<b>0.1</b>
1	1	Big Sandy	484	119	603	884	1,487	6	1.5%	1.0
	2	NE Chouteau County	367	119	486	1,586	2,072	8	2.0%	0.0
	2	South of Fort Benton	484	34	518	1,040	1,558	6	1.5%	1.6
	3	Fort Benton	588	119	707	858	1,565	6	1.5%	1.0
9401	1	NE Chouteau County; Rocky Boy's Reservation	0	0	0	0	0	0	0.0%	0.0
	2	Southern portion of Rocky Boy's Reservation; West of Rocky Boy	52	136	188	4,498	4,686	18	4.6%	0.6
9402	1	Southern portion of Rocky Boy's Reservation; South of Rocky Boy	0	0	0	0	0	0	0.0%	0.0
			<b>1,974</b>	<b>527</b>	<b>2,501</b>	<b>8,866</b>	<b>11,367</b>	<b>45</b>	<b>11.1%</b>	<b>0.0</b>
401	2	Central portion of Hill County; Kremlin; Fresno	376	170	546	962	1,508	6	1.5%	0.0
402	2	SE Hill County; Havre City/County Airport	390	68	458	1,014	1,472	6	1.4%	0.0
403	1	North of Havre	259	85	344	702	1,046	4	1.0%	0.4
	2	Northern portion of Havre; Riverside Trailer Court	56	323	379	1,768	2,147	8	2.1%	9.5
	3	Havre; Intersection of 1st Street and 14th Avenue	423	255	678	4,576	5,254	21	5.1%	23.2
	4	NW area of Havre; Hillside Trailer Court; Amtrak Station	197	204	401	2,054	2,455	10	2.4%	5.2
	5	Havre; North of Northern Montana College	588	0	588	1,430	2,018	8	2.0%	15.9
	6	Havre; South of Amtrak	240	51	291	1,560	1,851	7	1.8%	65.4
404	1	SW of Havre	381	272	653	1,872	2,525	10	2.5%	1.1
	2	South of Havre; Northern Montana Hospital	832	102	934	624	1,558	6	1.5%	0.8
	3	Havre; Northern Montana College	644	170	814	1,742	2,556	10	2.5%	18.8
	4	Havre; NW intersection of 5th Avenue and 9th Street	282	187	469	910	1,379	5	1.3%	41.3
405	1	Havre; SE intersection of 5th Avenue and 6th Street	291	102	393	546	939	4	0.9%	31.0
	2	Havre; SE intersection of 5th Avenue and 9th Street	122	0	122	442	564	2	0.6%	13.4
	3	Southern portion of Havre; East of Northern Montana College	367	204	571	1,326	1,897	7	1.9%	5.9
9401	1	Northern portion of Rocky Boy's Reservation	85	85	170	1,040	1,210	5	1.2%	0.1
	2	Rocky Boy's Reservation; South of Box Elder	0	0	0	0	0	0	0.0%	0.0
9402	1	Rocky Boy's Reservation; East of Rocky Boy	244	102	346	3,042	3,388	13	3.3%	0.2
	2	Southern portion of Hill County; Rocky Boy's Reservation; Rocky Boy	122	153	275	2,470	2,745	11	2.7%	0.5
			<b>5,899</b>	<b>2,533</b>	<b>8,432</b>	<b>28,080</b>	<b>36,512</b>	<b>143</b>	<b>35.7%</b>	<b>0.0</b>
1	1	Northern portion of Judith Basin County	226	221	447	2,184	2,631	10	2.6%	0.0
	2	Stanford	526	136	662	1,378	2,040	8	2.0%	0.0
			<b>752</b>	<b>357</b>	<b>1,109</b>	<b>3,562</b>	<b>4,671</b>	<b>18</b>	<b>4.6%</b>	<b>0.0</b>
601	2	Malta Airport; Marion Hills Country Club	249	102	351	884	1,235	5	1.2%	1.8
	3	Malta; East of Malta Amtrak Station	465	136	601	468	1,069	4	1.0%	2.4
	4	Malta; Malta Amtrak Station	682	102	784	1,534	2,318	9	2.3%	16.9
9401	1	Western portion of Phillips County; Fort Belknap Indian Reservation; North of Coburg	0	0	0	0	0	0	0.0%	0.0
9402	1	South of Fort Belknap Reservation; Western portion of Phillips County; Fort Belknap Indian Reservation; North of Dodson	0	0	0	0	0	0	0.0%	0.0
	2		47	0	47	338	385	2	0.4%	0.0
			<b>1,443</b>	<b>340</b>	<b>1,783</b>	<b>3,224</b>	<b>5,007</b>	<b>20</b>	<b>4.9%</b>	<b>0.0</b>
1	1	Northern portion of Teton County; Pendroy	282	136	418	1,924	2,342	9	2.3%	0.0
2	1	SE portion of Teton; Greenfield; along US Highway 89	226	34	260	728	988	4	1.0%	0.0
	3	North of Choteau	804	170	974	1,612	2,586	10	2.5%	0.7
	4	Choteau	606	68	674	1,508	2,182	9	2.1%	1.0
			<b>1,918</b>	<b>408</b>	<b>2,326</b>	<b>5,772</b>	<b>8,098</b>	<b>26</b>	<b>6.6%</b>	<b>0.0</b>
<b>Totals</b>			<b>18,260</b>	<b>6,732</b>	<b>24,992</b>	<b>78,546</b>	<b>103,538</b>	<b>401</b>	<b>100%</b>	<b>0.22</b>

Source: 2000 Census, LSC, 2007.

**Table D-5  
Regional Transit Demand**

	<b>TCRP Demand (Alter I)</b>	<b>TCRP Demand (Alter II)</b>	<b>TCRP Demand (Alter III)</b>	<b>TCRP Demand (Alter IV)</b>	<b>TCRP Demand (Alter V)</b>	<b>Local Trip Distribution</b>	<b>Regional Trip Distribution</b>	<b>Estimated Regional Transit Demand (Alter I)</b>	<b>Estimated Regional Transit Demand (Alter II)</b>	<b>Estimated Regional Transit Demand (Alter III)</b>	<b>Estimated Regional Transit Demand (Alter IV)</b>	<b>Estimated Regional Transit Demand (Alter V)</b>
Blaine County, MT	24,415	22,713	22,713	21,853	28,981	91%	9%	2,114	1966	649	1,892	2,509
Cascade County, MT	17,884	16,680	16,680	16,031	21,352	97%	3%	509	474	157	456	607
Chouteau County, MT	12,672	11,811	11,811	11,367	15,189	79%	21%	2,606	2429	802	2,338	3,124
Hill County, MT	41,666	38,877	38,877	36,512	49,326	95%	5%	2,039	1903	628	1,787	2,414
Judith Basin County, MT	5,198	4,839	4,839	4,671	4,732	78%	22%	1,132	1054	348	1,017	1,031
Phillips County, MT	5,582	5,343	5,343	5,007	4,264	94%	6%	343	328	108	308	262
Teton County, MT	9,069	8,476	8,476	8,098	7,722	79%	21%	1,916	1791	591	1,711	1,632
<b>Total</b>	<b>116,486</b>	<b>108,739</b>	<b>108,739</b>	<b>103,538</b>				<b>10,659</b>	<b>9,946</b>	<b>3,282</b>	<b>9,509</b>	<b>11,579</b>