


# Public Transportation Infrastructure Study

Fresno Council of Governments

Table G1: Fresno Area Express Ridership Summary

Route	Ridership		Adjusted Model			
	2003 Estimated Weekday(Count)	2003 Model	2010 Adjusted	2035 No Build Adjusted	2035 TSM Adjusted	2035 TSM Revised Adjusted
<b>FRESNO AREA EXPRESS</b>						
<b>Bus Rapid Transit</b>	0	0	0	16,755	17,931	18,454
4	0	0	126	150	65	140
9	1969	3976	5,098	10,065	12,363	11,932
12(2003 only)	87	373	0	0	0	0
18	68	16	18	30	34	34
20	2823	3568	1,802	1,153	1,205	933
22	2616	2317	1,993	1,161	688	3,462
<b>Combined 22,35</b>	0	0	0	0	1,679	0
26	3329	3910	2,560	1,983	1,614	1,449
28	4716	5329	8,297	3,165	5,096	4,873
30	3997	5598	4,801	632	762	327
32	3683	1658	518	2,264	3,421	2,510
33	1472	489	239	153	178	164
34	2782	3240	3,748	2,856	2,790	2,867
<b>35 (combined under TSM)</b>	0	0	817	919	0	0
<b>Combined 35,39</b>	0	0	0	0	3,889	4,193
38	3833	2514	8,605	8,530	6,283	6,166
39	1110	2166	1,811	1,536	539	0
41	2927	3162	2,021	4,137	4,881	6,842
45	890	1360	1,291	1,911	4,549	2,968
58	17	308	262	409	470	461
58E	0	0	19	15	37	5
<b>Downtown Circulator</b>	0	0	0	24	29	24
<b>SW Area Circulator</b>	0	0	0	0	0	1,454
<b>Fresno–Clovis New(NS–Clovis Av)</b>	0	0	0	0	2,511	2,208
<b>Fresno–Clovis New(Hwy 168)</b>	0	0	0	0	1,826	4,056
<b>Fresno–Clovis New(De Wolf)</b>	0	0	0	0	1,788	2,236
<b>SUBTOTAL FAX</b>	<b>36,317</b>	<b>39,984</b>	<b>44,027</b>	<b>57,847</b>	<b>74,627</b>	<b>77,759</b>

Model run date: April 14, 2010



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Table G2: Clovis and FCRTA Ridership Summary

Clovis Transit Route	2003 Estimated Weekday(Count)	2003 Model 2010 Adjusted		2035 No Build Adjusted	2035 TSM Adjusted	2035 TSM Revised Adjusted
10	181	1,193 599		739	576	512
50	57	703	118	152	126	97
60	88	12	71	80	206	130
65	44	172	133	162	149	46
70	0	0	44	50	39	6
Demand Responsive	119	0	0	0	0	0
<b>SUBTOTAL CLOVIS</b>	<b>489</b>	<b>2,080</b>	<b>965</b>	<b>1,183</b>	<b>1,096</b>	<b>792</b>
<b>FCRTA</b>						
Coalinga–Fresno	44	36	19	238	354	353
Coalinga–Avenal–Huron	0	0	5	12	12	12
I–5 Express	74	62	6	13	13	13
Orange Cove	85	299	219	213	213	215
Sanger						
Fixed Route	36	20	12	14	14	14
Demand Responsive	62	0	0	0	0	0
TOTAL	98	20	12	14	14	14
Selma						
Fixed Route	52	193	126	102	86	98
Demand Responsive	251	0	0	0	0	0
TOTAL	303	193	126	102	86	98
Southeast	28	178	121	142	119	86
Westside	32	180	121	138	147	151
Express 01(SR 99–Madera)	0	0	0	0	56	116
Express 02(SR 99–Kingsburg)	0	0	0	0	62	136
Express 03(SR99–Fowler)	0	0	0	0	0	135
Express 04(SR41–Madera)	0	0	0	0	0	105
<b>SUBTOTAL FCRTA</b>	<b>664</b>	<b>968</b>	<b>629</b>	<b>871</b>	<b>1,075</b>	<b>1,434</b>
<b>TOTAL</b>	<b>37,470</b>	<b>43,032</b>	<b>45,621</b>	<b>59,901</b>	<b>76,797</b>	<b>79,984</b>

Source: Dowling Associates, Inc. and Fresno COG Travel Model

Table G3: DAILY PERFORMANCE MEASURES (FROM THE TRIP TABLES)  
 April 15, 2010

Performance Measure		2003	2010	2035 No Build	2035 TSM	Percent Change: No Build to TSM
Work Auto Trips	Persons Daily	407,375	496,903	790,755	787,617	-0.40%
Work Transit Trips	Persons Daily	9,667	11,251	13,782	17,406	26.30%
Work Walk/Bike Trips	Persons Daily	8,845	10,202	16,371	15,832	-3.29%
Work Total Trips	Persons Daily	425,887	518,356	820,909	820,854	-0.01%
Non-Work Auto Trips	Persons Daily	3,065,471	3,769,338	6,070,415	6,063,454	-0.11%
Non-Work Transit Trips	Persons Daily	22,880	27,899	36,478	46,491	27.45%
Non-Work Walk/Bike Trips	Persons Daily	287,384	342,810	536,618	533,255	-0.63%
Non-Work Total Trips	Persons Daily	3,375,735	4,140,047	6,643,512	6,643,200	0.00%
Total Auto Trips	Persons Daily	3,472,847	4,266,241	6,861,170	6,851,071	-0.15%
Total Transit Trips	Persons Daily	32,546	39,150	50,261	63,896	27.13%
Total Walk/Bike Trips	Persons Daily	296,229	353,012	552,990	549,087	-0.71%
Total Trips	Persons Daily	3,801,622	4,658,403	7,464,420	7,464,054	0.00%
% Work Auto Trips	Percent Daily	95.65%	95.86%	96.33%	95.95%	-0.39%
% Work Transit Trips	Percent Daily	2.27%	2.17%	1.68%	2.12%	26.19%
% Work Walk/Bike Trips	Percent Daily	2.08%	1.97%	1.99%	1.93%	-3.02%
% Non-Work Auto Trips	Percent Daily	90.81%	91.05%	91.37%	91.27%	-0.11%
% Non-Work Transit Trips	Percent Daily	0.68%	0.67%	0.55%	0.70%	27.27%
% Non-Work Walk/Bike Trips	Percent Daily	8.51%	8.28%	8.08%	8.03%	-0.62%
% Total Auto Trips	Percent Daily	91.35%	91.58%	91.92%	91.79%	-0.14%
% Total Transit Trips	Percent Daily	0.86%	0.84%	0.67%	0.86%	28.36%
% Total Walk/Bike Trips	Percent Daily	7.79%	7.58%	7.41%	7.36%	-0.67%

Source: Dowling Associates, Inc. and Fresno COG Travel Model

Table G4: FRESNO COUNTY LAND USE FORECASTS SUMMARY  
July 14, 2010

Scenario	Population	SF Detached 0 Auto	SF Detached 1 Auto	SF Detached 2+ Auto	MF Attached 0 Auto	MF Attached 1 Auto	MF Attached 2+ Auto	Retail	Services	Gov't	Education	Other	TOTAL	TOTAL
	Persons	Dwelling Units	Dwelling Units	Dwelling Units	Dwelling Units	Dwelling Units	Dwelling Units	Employees	Employees	Employees	Employees	Employees	Housing Units	Employees
Fresno County 2003	830,721	8,516	48,461	125,977	15,762	38,546	23,956	34,656	107,484	30,852	36,886	121,399	261,218	331,277
Fresno County 2035, FC35	1,519,325	19,358	86,667	235,981	24,371	83,792	53,453	67,506	217,302	67,428	75,149	191,298	503,622	618,682
Build Scenario	1,468,265	16,119	77,642	213,822	24,892	95,032	61,345	65,340	215,420	57,131	59,997	182,857	488,852	580,745
Full Buildout TOD	1,488,849	14,223	69,902	187,607	31,608	121,997	78,398	83,878	248,069	65,901	63,541	156,441	503,735	617,830
Constrained TOD	1,503,960	18,187	78,611	212,855	27,341	101,657	64,875	81,520	240,405	65,904	64,657	166,553	503,526	619,040
Percent Difference														
FC35 to Build	-3%	-17%	-10%	-9%	2%	13%	15%	-3%	-1%	-15%	-20%	-4%	-3%	-6%
FC35 to Full Buildout TOD	-2%	-27%	-19%	-20%	30%	46%	47%	24%	14%	-2%	-15%	-18%	0%	0%
FC35 to Constrained TOD	-1%	-6%	-9%	-10%	12%	21%	21%	21%	11%	-2%	-14%	-13%	0%	0%

Source: Fregonese and Associates and Dowling Associates

Table G5: FRESNO COUNTY LAND USE FORECASTS SUMMARY

Dowling Associates

**FRESNO PTIS**

**TRAVEL TIMES ON SELECTED ORIGINS AND DESTINATIONS**

A.M. Peak Period Travel Times in Minutes

Origin	Destination	2035 No Build		2035 TSM		2035 Build		2035 Constrained TOD, BRT on MF Lanes		2035 Constrained TOD, BRT on Exclusive Lanes		2035 Full Build TOD, BRT on Exclusive Lanes	
		Auto	Transit	Auto	Transit	Auto	Transit	Auto	Transit	Auto	Transit	Auto	Transit
Riverpark Transit Center	Downtown Fresno Transit Center	19.8	40.1	18.7	39.4	19.8	33.4	21.1	35.3	19.6	30.3	22.6	30.5
SEGA Transit Center	Downtown Fresno Transit Center	—	—	20.1	55.8	20.1	37.4	21.6	38.4	21.9	33.9	—	—
Walmart (5125 Kings Canyon)	Downtown Fresno Transit Center	14.5	38.2	14.5	40.1	14.5	34.3	14.8	34.9	15.0	32.7	15.1	32.9
Manchester Transit Center	Downtown Fresno Transit Center	13.4	31.6	13.5	30.9	13.4	25.1	14.3	26.5	14.3	24.5	14.7	24.4
Shaw Avenue at SR 99	CSU Fresno	20.8	47.7	21.0	53.1	21.3	35.4	20.1	33.9	21.0	27.7	21.7	28.1

Auto times include walk to and from vehicle.

Transit times include walk at origin and destination, average wait and transfer times.

Table G6: DAILY PERFORMANCE MEASURES FROM NETWORK

Performance Measure	Mode	2035 Build 9/1/10	2035 Constrained TOD, BRT Mixed Flow 9/2/10	2035 Constrained TOD, BRT Exc Lane 9/2/10	2035 Full Buildout TOD 9/2/10	2035 Full TOD LRT on Blackstone, Kings Canyon BRT to Downtown TC 11/3/10	2035 Full TOD LRT on Blackstone & Kings Canyon 11/04/10	Percent Change: No Build to TSM	Percent Change: No Build to Constrained TOD BRT Mixed	Percent Change: No Build to Constrained TOD BRT Exclus	Percent Change: No Build to Full TOD	Percent Change: No Build to Full TOD LRT on Blackstone	Percent Change: No Build to Full TOD LRT on Blackstone & Kings Canyon
Vehicle-Miles of Travel	Vehicles	36,049,522	35,152,332	35,152,689	34,009,973	34,023,838	34,001,559	-0.13%	-2.64%	-2.64%	-5.81%	-5.77%	-5.83%
Vehicle-Miles of Travel in Congestion	Vehicles	2,110,679	2,356,060	2,457,628	2,422,893	2,434,416	2,379,910	-0.75%	12.63%	17.49%	15.82%	16.38%	13.77%
Percent VMT in Congestion	Vehicles	5.85%	6.70%	6.99%	7.12%	7.16%	7.00%	-0.52%	15.72%	20.73%	22.97%	23.66%	20.90%
Person-Miles of Travel	Vehicles	59,994,067	58,621,730	58,616,916	57,008,478	57,033,133	56,993,642	-0.13%	-2.45%	-2.45%	-5.13%	-5.09%	-5.16%
Person-Miles of Travel	Transit	229,914	294,356	305,774	334,492	311,505	336,798	45.75%	102.95%	110.82%	130.63%	114.78%	132.22%
Vehicle-Hours of Travel	Vehicles	844,117	819,506	824,617	802,111	801,096	799,633	-0.40%	-3.04%	-2.44%	-5.10%	-5.22%	-5.39%
Person-Hours of Travel	Vehicles	1,409,498	1,370,925	1,379,329	1,347,415	1,345,662	1,343,152	-0.40%	-2.86%	-2.26%	-4.53%	-4.65%	-4.83%
Person-Hours of Travel	Transit	13,983	18,120	18,809	20,832	19,181	20,986	45.88%	98.47%	106.01%	128.17%	110.09%	129.86%
Vehicle-Hours of Delay	Vehicles	51,862	49,004	53,814	56,468	55,072	54,174	-3.87%	-4.64%	4.72%	9.89%	7.17%	5.42%
Person-Hours of Delay	Vehicles	86,694	81,743	89,776	94,338	91,933	90,403	-3.91%	-4.79%	4.56%	9.88%	7.08%	5.29%
Person-Hours of Delay	Transit	482	628	909	1,089	1,019	1,094	56.54%	121.91%	221.20%	284.81%	260.07%	286.57%
Average Speed	Vehicles	42.56	42.76	42.50	42.31	42.38	42.43	0.26%	0.42%	-0.19%	-0.63%	-0.47%	-0.35%
Average Speed	Transit	16.44	16.25	16.26	16.06	16.24	16.05	-0.13%	2.27%	2.33%	1.07%	2.20%	1.01%

Table G7: FRESNO PTIS PERFORMANCE MEASURES - Countywide  
DAILY PERFORMANCE MEASURES FROM TRIP TABLES

Performance Measure	Mode	2035 Build 9/1/10	2035 Constrained TOD, BRT Mixed Flow 9/2/10	2035 Constrained TOD, BRT Exc Lane 9/2/10	2035 Full Buildout TOD 9/2/10	2035 Full TOD LRT on Blackstone,Kings Canyon BRT to Downtown TC 11/3/10	2035 Full TOD LRT on Blackstone & Kings Canyon 11/04/10	Percent Change: No Build to TSM	Percent Change: No Build to Cnstrnd TOD BRT Mixed	Percent Change: No Build to Cnstrnd TOD BRT Excl	Percent Change: No Build to Full TOD	Percent Change: No Build to Full TOD LRT on Blackstone	Percent Change: No Build to Full TOD LRT on Blackstone & Kings Canyon
Work Auto Trips	Persons Daily	767,951	747,991	747,719	729,581	730,260	729,468	-0.56%	-3.21%	-3.25%	-5.59%	-5.51%	-5.61%
Work Transit Trips	Persons Daily	20,742	27,285	27,597	33,527	32,670	33,693	37.12%	87.40%	89.54%	130.27%	124.38%	131.41%
Work Walk/Bike Trips	Persons Daily	22,787	24,966	24,962	27,677	27,846	27,626	-4.34%	4.09%	4.07%	15.39%	16.10%	15.18%
Work Total Trips	Persons Daily	811,480	800,242	800,278	790,785	790,776	790,787	0.01%	-1.37%	-1.37%	-2.54%	-2.54%	-2.53%
Non-Work Auto Trips	Persons Daily	6,009,813	5,916,539	5,914,646	5,824,580	5,826,517	5,824,116	-0.14%	-1.71%	-1.75%	-3.24%	-3.21%	-3.25%
Non-Work Transit Trips	Persons Daily	48,381	61,496	62,499	72,383	69,745	72,992	37.72%	81.68%	84.65%	113.85%	106.05%	115.65%
Non-Work Walk/Bike Trips	Persons Daily	549,238	580,341	581,058	617,326	618,073	617,171	-0.80%	4.72%	4.85%	11.39%	11.53%	11.37%
Non-Work Total Trips	Persons Daily	6,607,432	6,558,377	6,558,203	6,514,289	6,514,336	6,514,278	0.00%	-0.75%	-0.75%	-1.41%	-1.41%	-1.41%
Total Auto Trips	Persons Daily	6,777,764	6,664,530	6,662,365	6,554,160	6,556,777	6,553,584	-0.19%	-1.88%	-1.92%	-3.51%	-3.47%	-3.52%
Total Transit Trips	Persons Daily	69,123	88,782	90,096	105,910	102,415	106,685	37.54%	83.40%	86.12%	118.79%	111.57%	120.39%
Total Walk/Bike Trips	Persons Daily	572,025	605,307	606,021	645,003	645,919	644,797	-0.95%	4.69%	4.82%	11.56%	11.72%	11.52%
Total Trips	Persons Daily	7,418,911	7,358,619	7,358,481	7,305,074	7,305,112	7,305,065	0.00%	-0.82%	-0.82%	-1.54%	-1.54%	-1.54%
% Work Auto Trips	Percent Daily	94.64%	93.47%	93.43%	92.26%	92.35%	92.25%	-0.57%	-1.87%	-1.91%	-3.14%	-3.04%	-3.15%
% Work Transit Trips	Percent Daily	2.56%	3.41%	3.45%	4.24%	4.13%	4.26%	37.43%	90.50%	92.74%	136.87%	130.73%	137.99%
% Work Walk/Bike Trips	Percent Daily	2.81%	3.12%	3.12%	3.50%	3.52%	3.49%	-4.39%	5.41%	5.41%	18.24%	18.92%	17.91%
% Non-Work Auto Trips	Percent Daily	90.96%	90.21%	90.19%	89.41%	89.44%	89.41%	-0.14%	-0.98%	-1.00%	-1.86%	-1.82%	-1.86%
% Non-Work Transit Trips	Percent Daily	0.73%	0.94%	0.95%	1.11%	1.07%	1.12%	39.22%	84.31%	86.27%	117.65%	109.80%	119.61%
% Non-Work Walk/Bike Trips	Percent Daily	8.31%	8.85%	8.86%	9.48%	9.49%	9.47%	-0.83%	5.48%	5.60%	12.99%	13.11%	12.87%
% Total Auto Trips	Percent Daily	91.36%	90.57%	90.54%	89.72%	89.76%	89.71%	-0.19%	-1.07%	-1.10%	-2.00%	-1.96%	-2.01%
% Total Transit Trips	Percent Daily	0.93%	1.21%	1.22%	1.45%	1.40%	1.46%	38.46%	86.15%	87.69%	123.08%	115.38%	124.62%
% Total Walk/Bike Trips	Percent Daily	7.71%	8.23%	8.24%	8.83%	8.84%	8.83%	-0.90%	5.65%	5.78%	13.35%	13.48%	13.35%