

I-25 Express Lanes Monthly Progress Report July, 2006

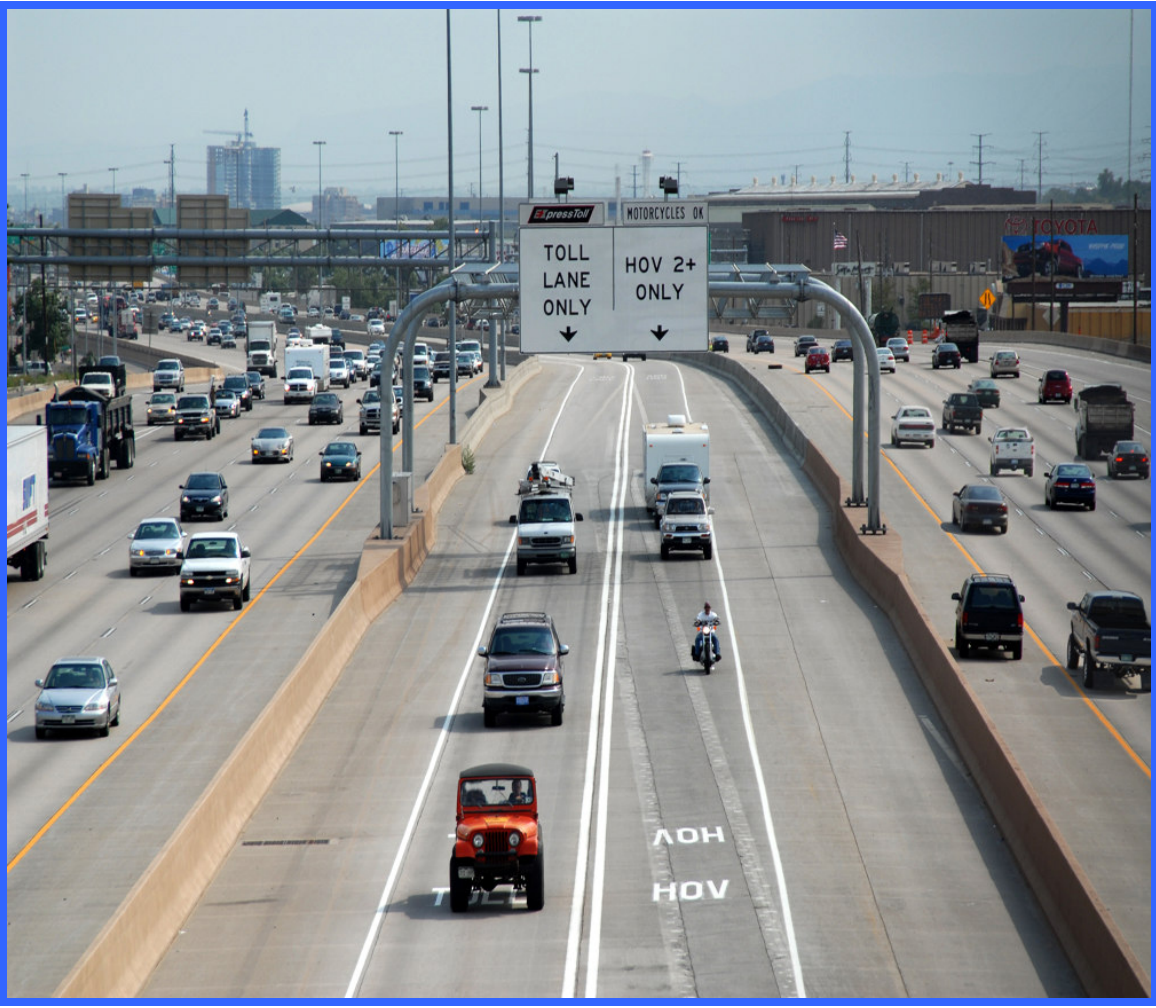


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INTRODUCTION

July marks the second month of the I-25 Express Lanes operation. During this month we have seen an increase in the number of people using the Express Lanes. In July 262,588 vehicles used the facility resulting in an increase of almost 60,000 cars in one month. There was a 46% increase in the number of toll paying transponders that were read at the gantry (21,551 in June to 31,467 in July). These numbers do not represent any unreconciled readings that eventually are converted to tolls. There has also been an increase in HOV lane use, (approximately 50,000 more vehicles).

Monthly information in this report includes:

- Vehicle Usage
- HOV Vs. Express Toll Lane Vehicle counts
- Bus Travel times
- Revenues
- Incidents (that might impact operations or revenues)

1.0 VEHICLE USAGE BY TIME

The following is a summary of July's overall traffic data (segregated by HOV Lane and Tolloed Express Lane). These include weekend and non-peak traffic.

July 2006 Traffic Data Summary			
	Express	HOV	Total
Total Monthly Traffic	31,467	221,918	262,588
Maximum Daily Traffic	1,536	9,201	10,833
Average Weekday Traffic	1,153	7,996	9,753
Average Weekday AM Peak Hr Traffic	668	2,474	3,142
Average Weekday PM Peak Hr Traffic	804	3,383	4,187
Monthly Unreconciled	NA	NA	9,203

Toll violations are again higher than expected for the month of July and still may be due to people being unfamiliar with this operation. Citations are now being mailed out and E-470 is collecting and/or resolving the tolls, fees and violations.

“Violations” are recorded at the time of an antennae reading, whether correct or incorrect, at the gantry. These may not be actual toll violations. After time (as much as 60 days), the majority are converted to legitimate transactions. Examples include: a “no read” transponder (dead battery, etc.), information such as a credit card not updated, etc.

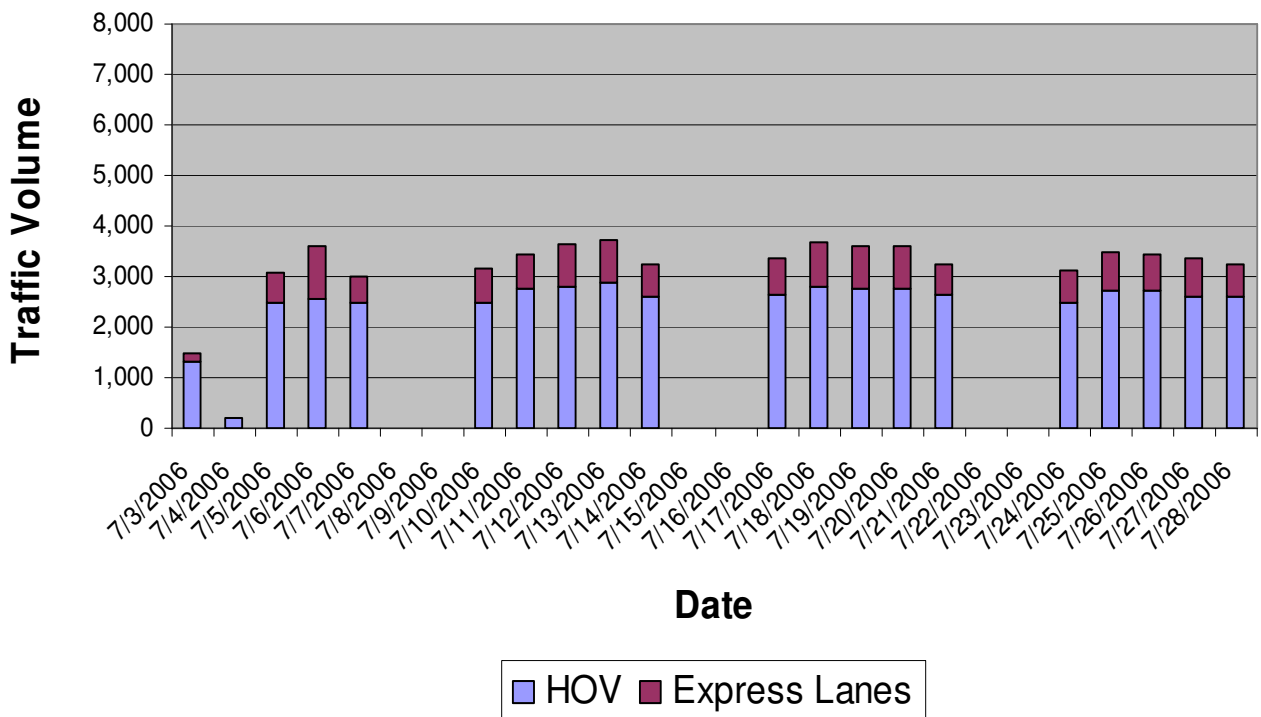
CAUTION: Postings are only a “snapshot”. It takes several months to establish real data and trends

Regardless, violations in the morning (inbound) are considerably less than in the afternoon (outbound). In fact, approximately 80% of the violations occur in the outbound direction. This can be attributed to:

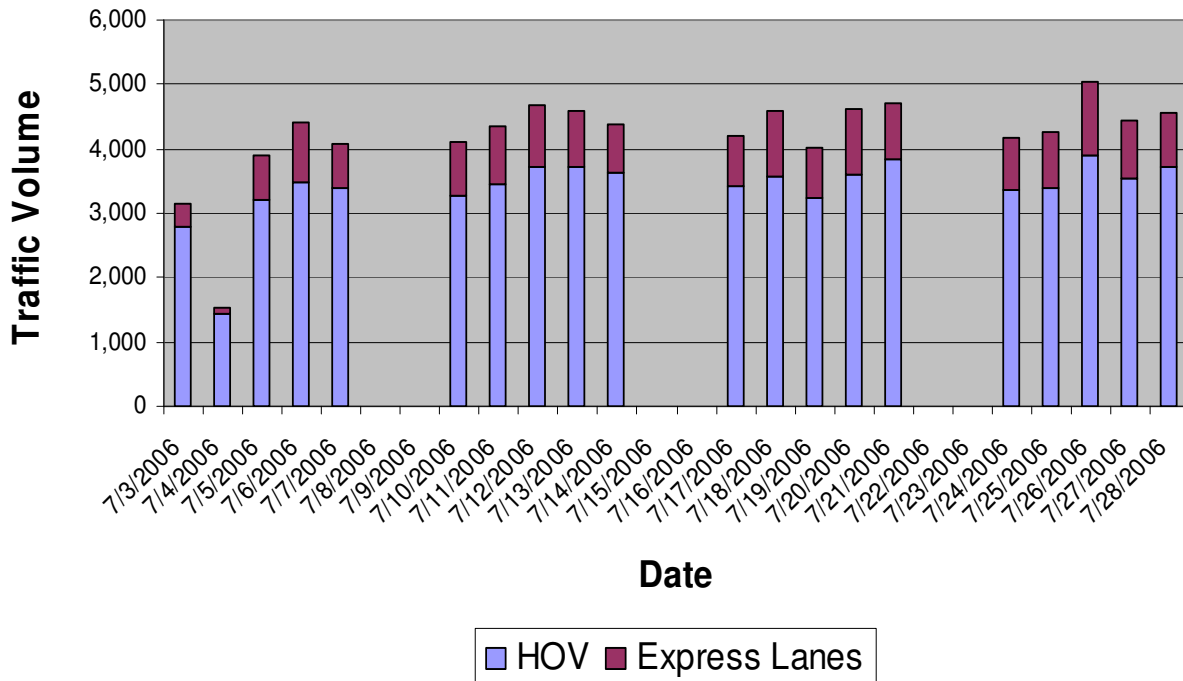
- Law enforcement is present a greater percentage of the time
- Outbound traffic from noon to midnight shows greater disregard for lane designation, particularly in non-peak periods when law enforcement is not present.
- A direct correlation between officer presence and behavior has been observed (if SOVs do not see an officer, some will change lanes at the last minute to avoid paying a toll).

Below is an illustration of Express Lane Vehicle Usage. These data are based on raw data (not reconciled, as noted above).

July 2006 Peak Period Traffic (AM - Inbound)



July 2006 Peak Period Traffic (PM - Outbound)



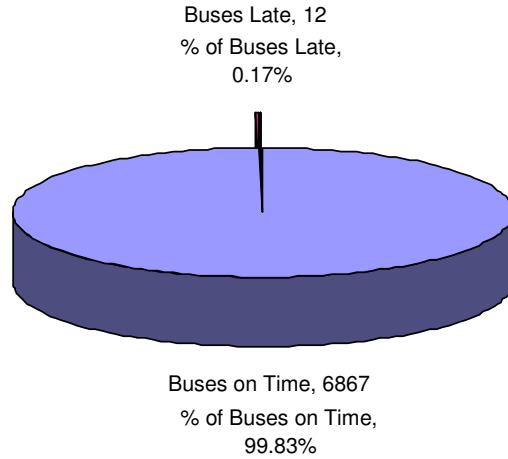
2.0 BUS AND HOV TRAVEL TIMES

The IGA between CDOT and RTD prescribes triggers to determine if there is any degradation to travel times for buses and carpools. These are:

- Exceeding travel time for more than one bus in an hour (provided the excess was not due to a stall, crash and closure of the lane or special event).
- Exceeding the travel time for more than one day per week for three weeks in a row.
- Predictable patterns.

Of the 6867 buses that used the facility in the month of July, there were 12 this that did not meet the travel time. Most were off by less than 1 minute. There are 327 buses per workday or 6,867 buses for the month. There does not seem to be any pattern of bus travel time degradation. Automobile speeds are averaging between 55 and 60 mph, indicating a high level of service for both lanes.

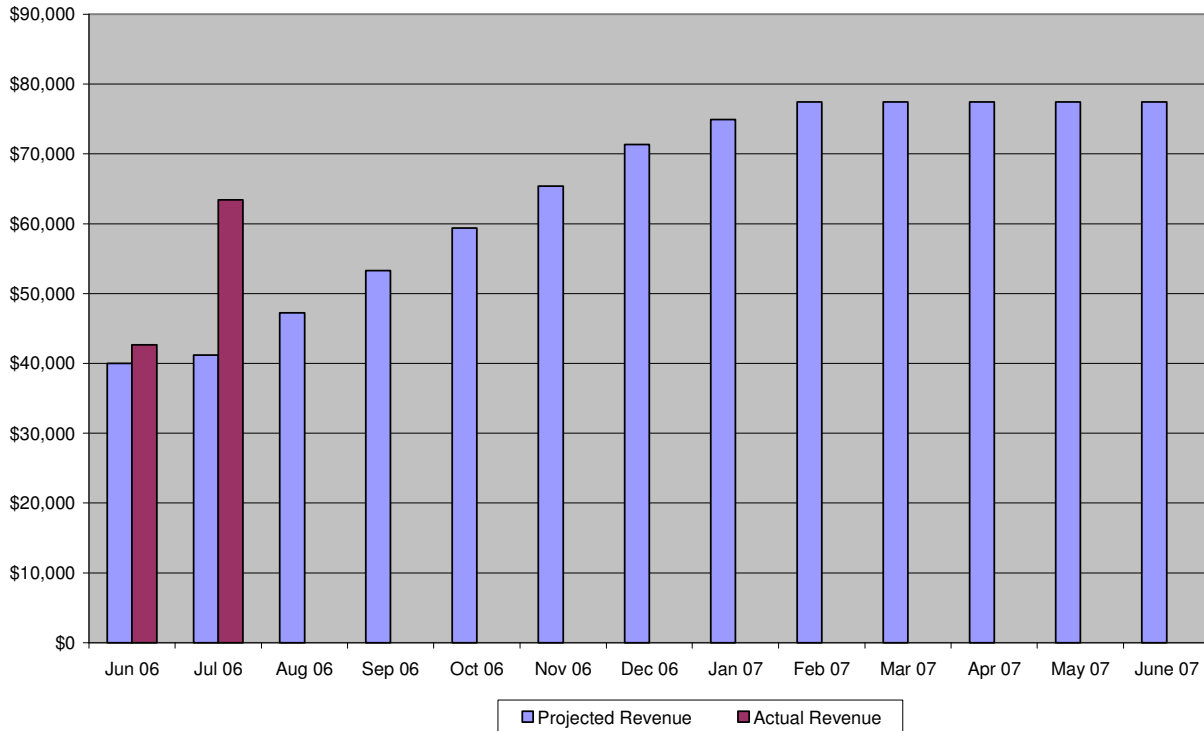
BUS TRAVEL TIME PERFORMANCE



3.0 REVENUES

The annual fiscal year 2007 revenue projection was approximately \$800,000. This assumed approximately 60% of the average monthly projection would be achieved in the first month, (approximately \$40,000 for the months of June and July). This amount was assumed to “ramp up” over time. The figure below shows the projected vs. actual revenue to date. Revenues do not include any monies that have been collected for citations (tolls, fees, and fines). Actual toll revenue collected for the month of June was over \$43,000 and for the month of July, toll revenues exceeded \$63,000.

First Year Monthly Estimated Revenue vs. Actual



4.0 INCIDENTS

On July 18th there was an accident in the southbound general purpose lanes that required the Express Lanes to be closed. Generally such an accident should not impact the lanes but in this case a semi crushed a vehicle against and partially over the barrier separating the general purpose and Express Lanes. It was necessary to close the lanes for approximately one hour and fifteen minutes in order to safely access and remove the vehicles. The incident occurred during the afternoon operations and the lanes were open to traffic before 4:00 PM.

As a result of this incident it was discovered that all involved were aware of the procedures for Express Lanes usage for incidents on the main line. Therefore, additional training was provided to law enforcement as well as providing additional TRAFFIC INCIDENT MANAGEMENT RESPONSE MANUALS to the agencies involved.

5.0 ENFORCEMENT

The following report has been provided by the Colorado State Patrol: During July there were 152 vehicles stopped by the officers. There were 20 toll and 23 HOV citations issued. In addition there were 24 Hazardous Citations, 7 seatbelt and 19 'other' citations plus one arrest.

MANUAL CITATIONS

Month	Total Vehicles Stopped	Toll Violation Citations	HOV Violation Citations	Hazardous Citations	Seatbelt Citations	All Other Citations	Arrests
June	320	43	59	22	5	7	1
July	152	20	26	24	7	19	1

6.0 OPERATIONAL ISSUES

At 2:00 PM on July 10th all communication was lost to all of the gates and signs on the Express Lanes and the CDOT network. CTMC was notified and their personnel began looking into the problem. The ultimate source of the problem had to do with a firewall modification that CDOT was working on.

This incident showed a weakness in the system that is in the process of being addressed. Equipment is being purchased that will allow the Express Lanes to be isolated from the overall CDOT computer network so that it can operate independently from a domain controller. This will allow the system to operate in the event of a failure elsewhere in the CDOT computer system.

7.0 ADDITIONAL INFORMATION

From January to May of 2006, EXpressToll issued an average of 4,395 transponders a month. In June 2006, they issued 7,478 transponders and July 2006, 5,076 transponders.

PEAK PERIOD TRAFFIC

	Morning Rush Hour						
	Total Rush Hour		Avg Per Hour		Max Hr		
	EX Lanes	HOV	EX Lanes	HOV	EX Lanes	HOV	
Weekday	EX Lanes	HOV	EX Lanes	HOV	EX Lanes	HOV	
Week of July 3 - 7	Monday	158	1,332	40	333	66	489
	Tuesday	11	192	3	48	4	98
	Wednesday	594	2,490	149	623	217	924
	Thursday	1,014	2,574	1,014	2,574	416	985
	Friday	536	2,465	134	616	204	929
Week of July 10 - 14	Monday	671	2,493	168	623	291	1,016
	Tuesday	662	2,776	166	694	251	1,070
	Wednesday	813	2,808	203	702	325	1,059
	Thursday	825	2,882	206	721	407	1,121
	Friday	632	2,604	158	651	251	999
Week of July 17 - 21	Monday	713	2,637	178	659	280	1,025
	Tuesday	879	2,801	220	700	351	1,086
	Wednesday	843	2,769	211	692	348	1,095
	Thursday	832	2,769	208	692	332	1,066
	Friday	609	2,644	152	661	245	1,039
Week of July 24 - 28	Monday	647	2,467	162	617	199	848
	Tuesday	742	2,734	186	684	308	1,061
	Wednesday	728	2,707	182	677	283	1,010
	Thursday	754	2,613	189	653	299	1,019
	Friday	639	2,606	160	652	248	987
July 31, 2006	Monday	723	2,591	181	648	297	1,025
	Tuesday						
	Wednesday						
	Thursday						
	Friday						

PEAK PERIOD TRAFFIC

	Afternoon Rush Hour						
	Total Rush Hour		Avg Per Hour		Max Hr		
	EX Lanes	HOV	EX Lanes	HOV	EX Lanes	HOV	
Weekday							
Week of July 3 - 7	Monday	358	2,778	90	695	115	841
	Tuesday	86	1,455	22	364	29	427
	Wednesday	671	3,216	168	804	240	1,070
	Thursday	914	3,493	229	873	387	1,236
	Friday	705	3,381	176	845	232	1,079
Week of July 10 - 14	Monday	843	3,270	211	818	369	1,147
	Tuesday	889	3,452	222	863	419	1,229
	Wednesday	946	3,721	237	930	345	1,254
	Thursday	874	3,713	219	928	360	1,270
	Friday	748	3,644	187	911	240	1,102
Week of July 17 - 21	Monday	769	3,431	192	858	325	1,204
	Tuesday	1,009	3,570	252	893	321	1,125
	Wednesday	804	3,230	201	808	340	1,237
	Thursday	1,031	3,589	258	897	422	1,300
	Friday	848	3,853	212	963	283	1,231
Week of July 24 - 28	Monday	797	3,361	199	840	342	1,155
	Tuesday	873	3,402	218	851	360	1,190
	Wednesday	1,152	3,896	288	974	479	1,251
	Thursday	889	3,538	222	885	325	1,203
	Friday	841	3,731	210	933	889	3,538
July 31, 2006	Monday	845	3,321	211	830	211	830
	Tuesday						
	Wednesday						
	Thursday						
	Friday						

PEAK PERIOD TRAFFIC

Week of July 3 - 7			
Monday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	39	331	370
07:00 - 08:00	66	489	555
08:00 - 09:00	35	312	347
09:00 - 10:00	18	200	218
Total	158	1,332	1,490
15:00 - 16:00	63	631	694
16:00 - 17:00	115	763	878
17:00 - 18:00	112	841	953
18:00 - 19:00	68	543	611
Total	358	2,778	3,136
Tuesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	1	13	14
07:00 - 08:00	2	24	26
08:00 - 09:00	4	57	61
09:00 - 10:00	4	98	102
Total	11	192	203
15:00 - 16:00	29	360	389
16:00 - 17:00	17	427	444
17:00 - 18:00	21	368	389
18:00 - 19:00	19	300	319
Total	86	1,455	1,541
Wednesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	170	691	861
07:00 - 08:00	217	924	1,141
08:00 - 09:00	134	540	674
09:00 - 10:00	73	335	408
Total	594	2,490	3,084
15:00 - 16:00	91	597	688
16:00 - 17:00	234	1030	1,264
17:00 - 18:00	240	1070	1,310
18:00 - 19:00	106	519	625
Total	671	3,216	3,887
Thursday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	164	729	999
07:00 - 08:00	249	985	1,401
08:00 - 09:00	135	583	821
09:00 - 10:00	51	277	367
Total	1,014	2,574	3,588
15:00 - 16:00	133	671	804
16:00 - 17:00	278	996	1,274
17:00 - 18:00	387	1236	1,623
18:00 - 19:00	116	590	706
Total	914	3,493	4,407

Friday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	142	729	871
07:00 - 08:00	204	929	1,133
08:00 - 09:00	134	533	667
09:00 - 10:00	56	274	330
Total	536	2,465	3,001
15:00 - 16:00	161	735	896
16:00 - 17:00	232	1079	1,311
17:00 - 18:00	213	997	1,210
18:00 - 19:00	99	570	669
Total	705	3,381	4,086

Week of July 10 - 14

Monday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	189	672	861
07:00 - 08:00	291	1,016	1,307
08:00 - 09:00	136	558	694
09:00 - 10:00	55	247	302
Total	671	2,493	3,164
15:00 - 16:00	139	609	748
16:00 - 17:00	249	992	1,241
17:00 - 18:00	369	1,147	1,516
18:00 - 19:00	86	522	608
Total	843	3,270	4,113

Tuesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	170	784	954
07:00 - 08:00	251	1,070	1,321
08:00 - 09:00	180	649	829
09:00 - 10:00	61	273	334
Total	662	2,776	3,438
15:00 - 16:00	104	616	720
16:00 - 17:00	234	1,049	1,283
17:00 - 18:00	419	1,229	1,648
18:00 - 19:00	132	558	690
Total	889	3,452	4,341

Wednesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	201	809	1,010
07:00 - 08:00	325	1,059	1,384
08:00 - 09:00	228	654	882
09:00 - 10:00	59	286	345
Total	813	2,808	3,621
15:00 - 16:00	120	696	816
16:00 - 17:00	262	1,049	1,311
17:00 - 18:00	345	1,254	1,599
18:00 - 19:00	219	722	941
Total	946	3,721	4,667

Thursday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	174	789	963
07:00 - 08:00	407	1,121	1,528
08:00 - 09:00	189	662	851
09:00 - 10:00	55	310	365
Total	825	2,882	3,707
15:00 - 16:00	144	727	871
16:00 - 17:00	241	1,095	1,336
17:00 - 18:00	360	1,270	1,630
18:00 - 19:00	129	621	750
Total	874	3,713	4,587
Friday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	181	713	894
07:00 - 08:00	251	999	1,250
08:00 - 09:00	155	599	754
09:00 - 10:00	45	293	338
Total	632	2,604	3,236
15:00 - 16:00	172	845	1,017
16:00 - 17:00	240	1,102	1,342
17:00 - 18:00	234	1,012	1,246
18:00 - 19:00	102	685	787
Total	748	3,644	4,392

Week of July 17 - 21

Monday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	189	717	906
07:00 - 08:00	280	1,025	1,305
08:00 - 09:00	189	624	813
09:00 - 10:00	55	271	326
Total	713	2,637	3,350
15:00 - 16:00	117	641	758
16:00 - 17:00	225	1,078	1,303
17:00 - 18:00	325	1,204	1,529
18:00 - 19:00	102	508	610
Total	769	3,431	4,200
Tuesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	211	781	992
07:00 - 08:00	351	1,086	1,437
08:00 - 09:00	257	653	910
09:00 - 10:00	60	281	341
Total	879	2,801	3,680
15:00 - 16:00	218	723	941
16:00 - 17:00	296	1,125	1,421
17:00 - 18:00	321	1,089	1,410
18:00 - 19:00	174	633	807
Total	1,009	3,570	4,579

Wednesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	218	756	974
07:00 - 08:00	348	1,095	1,443
08:00 - 09:00	182	564	746
09:00 - 10:00	95	354	449
Total	843	2,769	3,612
15:00 - 16:00	137	687	824
16:00 - 17:00	296	1,056	1,352
17:00 - 18:00	340	1,237	1,577
18:00 - 19:00	31	250	281
Total	804	3,230	4,034
Thursday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	208	758	966
07:00 - 08:00	332	1,066	1,398
08:00 - 09:00	227	632	859
09:00 - 10:00	65	313	378
Total	832	2,769	3,601
15:00 - 16:00	136	620	756
16:00 - 17:00	306	1,007	1,313
17:00 - 18:00	422	1,300	1,722
18:00 - 19:00	167	662	829
Total	1,031	3,589	4,620
Friday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	167	716	883
07:00 - 08:00	245	1,039	1,284
08:00 - 09:00	150	579	729
09:00 - 10:00	47	310	357
Total	609	2,644	3,253
15:00 - 16:00	180	885	1,065
16:00 - 17:00	261	1,071	1,332
17:00 - 18:00	283	1,231	1,514
18:00 - 19:00	124	666	790
Total	848	3,853	4,701

Week of July 24 - 28

Monday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	190	745	935
07:00 - 08:00	199	848	1,047
08:00 - 09:00	168	593	761
09:00 - 10:00	90	281	371
Total	647	2,467	3,114
15:00 - 16:00	110	640	750
16:00 - 17:00	237	990	1,227
17:00 - 18:00	342	1,155	1,497
18:00 - 19:00	108	576	684
Total	797	3,361	4,158

Tuesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	198	803	1,001
07:00 - 08:00	308	1,061	1,369
08:00 - 09:00	174	610	784
09:00 - 10:00	62	260	322
Total	742	2,734	3,476
15:00 - 16:00	107	604	711
16:00 - 17:00	272	1,005	1,277
17:00 - 18:00	360	1,190	1,550
18:00 - 19:00	134	603	737
Total	873	3,402	4,275
Wednesday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	195	769	964
07:00 - 08:00	283	1,010	1,293
08:00 - 09:00	194	620	814
09:00 - 10:00	56	308	364
Total	728	2,707	3,435
15:00 - 16:00	135	724	859
16:00 - 17:00	325	1,198	1,523
17:00 - 18:00	479	1,251	1,730
18:00 - 19:00	213	723	936
Total	1,152	3,896	5,048
Thursday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	207	709	916
07:00 - 08:00	299	1,019	1,318
08:00 - 09:00	176	599	775
09:00 - 10:00	72	286	358
Total	754	2,613	3,367
15:00 - 16:00	145	678	823
16:00 - 17:00	280	1,031	1,311
17:00 - 18:00	325	1,203	1,528
18:00 - 19:00	139	626	765
Total	889	3,538	4,427
Friday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	189	707	896
07:00 - 08:00	248	987	1,235
08:00 - 09:00	138	589	727
09:00 - 10:00	64	323	387
Total	639	2,606	3,245
15:00 - 16:00	177	864	1,041
16:00 - 17:00	257	1,079	1,336
17:00 - 18:00	284	1,099	1,383
18:00 - 19:00	123	689	812
Total	841	3,731	4,572

July 31, 2006

Monday	<u>EX Lanes</u>	<u>HOV</u>	<u>Total</u>
06:00 - 07:00	192	758	950
07:00 - 08:00	297	1,025	1,322
08:00 - 09:00	184	554	738
09:00 - 10:00	50	254	304
Total	723	2,591	3,314
15:00 - 16:00	108	636	744
16:00 - 17:00	256	1,059	1,315
17:00 - 18:00	372	1,146	1,518
18:00 - 19:00	109	480	589
Total	845	3,321	4,166

