Light Commercial Vehicle Inventory

1999

Minnesota Department of Transportation

Metro Division

SRF Consulting Group, Inc.

1999 LIGHT COMMERCIAL VEHICLE INVENTORY

MINNESOTA DEPARTMENT OF TRANSPORTATION

November 1999

PREPARED BY:

SRF CONSULTING GROUP, INC.

SRF NO. 0993230

1999 LIGHT COMMERCIAL VEHICLE INVENTORY

Purpose

Very little is known about the extent of light commercial vehicle traffic on our metropolitan area highways. The Light Commercial Vehicle (LCV) Inventory study was undertaken to help fill this information gap. Establishing the light-commercial-vehicle component of the traffic stream is problematic because LCVs cannot be differentiated from personal/passenger vehicles by automatic data collection equipment. (This is the reason why, traditionally, LCVs have been grouped with passenger vehicles.) As a result, visual identification and manual counting has to be relied upon for the LCV inventory. The inventory results show where light commercial vehicles are concentrated geographically, the roads they use, by type, their volume profile by time of day, a comparison with heavy commercial vehicles, and the proportion of LCV in the daily traffic flow.

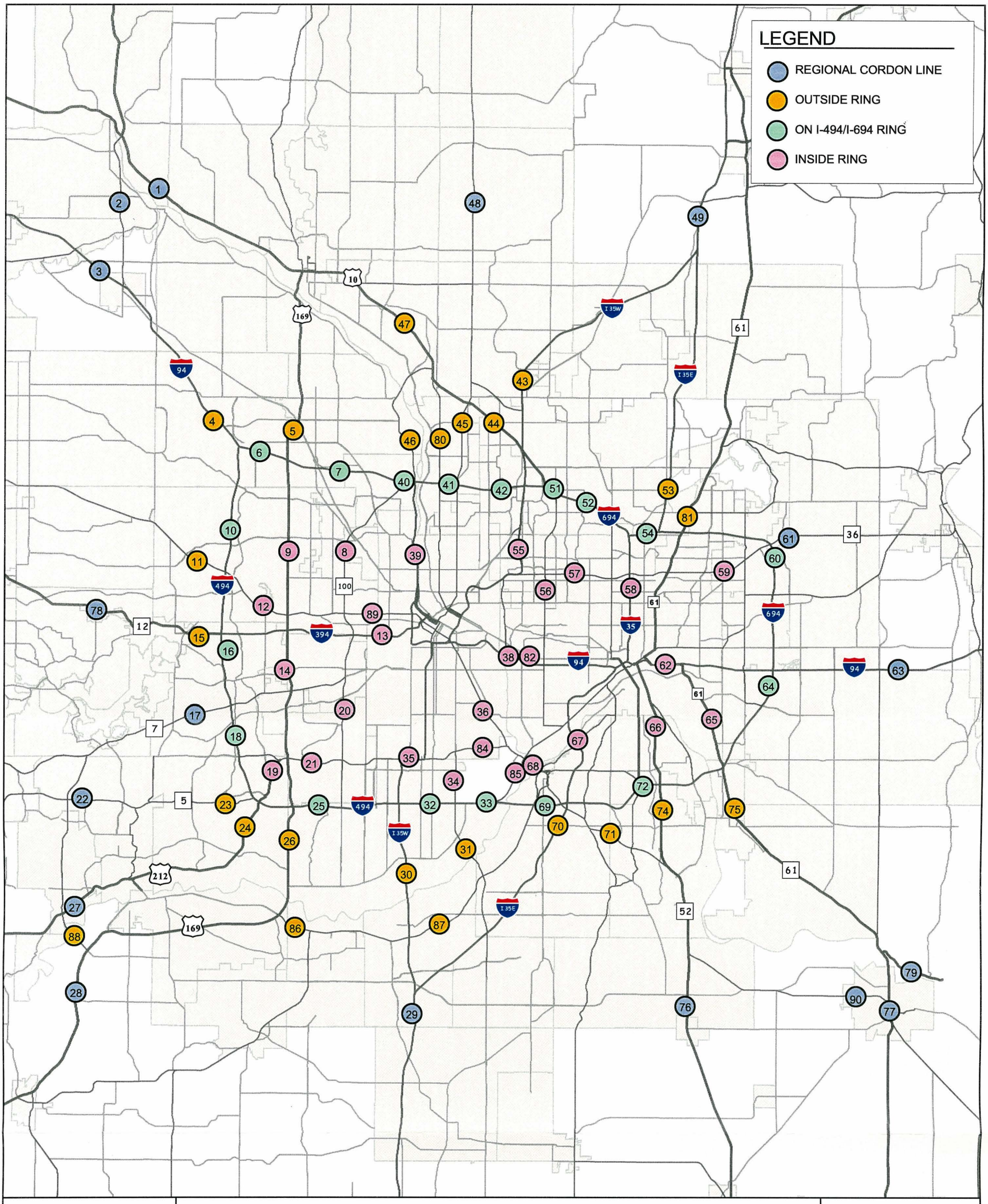
Light Commercial Vehicles are defined as two-axle, four- or six-tire vehicles (vans, trucks, SUVs, pickups) that display a commercial sign on the door or elsewhere on the vehicle. Autos with a commercial sign (e.g., pizza delivery) and two-axle LCVs with a hitched trailer are also included in the LCV category. Heavy Commercial Trucks are trucks with three or more axles.

Inventory Station Location

To obtain a representative number of LCV-counting sites, 86 locations were identified throughout the seven-county metropolitan area. These sites, shown in Figure 1, are geographically distributed on freeways (access-controlled) and expressways as follows:

	Area Type				
Facility Type	Inside Ring	On Ring	Outside Ring	Regional Cordon Line	Total
Freeway	17	18	10	4	49
Expressway	10	--	14	13	37
Total	27	18	24	17	86

A breakdown of the stations by area type and facility type can be found in Appendix A.



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November 4, 1999

1999 Light Commercial Vehicle Count Locations

Minnesota Department of Transportation

LIGHT COMMERCIAL VEHICLE INVENTORY

FIGURE

1

Roadside Site Selection

Site checks of each of the 90 initial locations initially identified were conducted to find a specific location along the road where the surveyor could be safely placed and not become a distraction to drivers. If a location off the roadway was not feasible, an on-roadway plan was developed. For these sites, "Duck Blinds" were used (i.e., Type III barricades with orange and white stripes and three 8-foot bars placed on the shoulder of the road behind a concrete or steel barrier). This plan kept the distraction element to a minimum, and the barricade and barrier added a safety element. Of the initial 90 sites identified, four were eliminated because of the high level of difficulty and potential safety problems.

Once the specific sites were identified, site maps with major cross streets and landmarks were drawn (see Appendix B) to guide surveyors to the precise location of the survey.

Pre-Test

A pre-test was done to ensure that surveyors could visually and accurately select light commercial vehicles in all lanes from the total vehicular flow. The pretest was also used to determine the degree to which LCV traffic volumes dropped in the late afternoon, early evening. This information was used to determine the mix of 12-hour counts (6:00 a.m. to 6:00 p.m.) and 16-hour counts (6:00 a.m. to 10:00 p.m.). The pretest indicated that the 12-hour count captured about 78 percent of daily LCVs and 16-hour counts about 91 percent.

The pretest also showed that one person was required to survey one direction of traffic. Fifty-one stations were surveyed in both directions and 35 in one direction. This yielded a total of 137 directional counts.

As part of the pretest, a video of traffic was recorded for use in training surveyors in LCV identification and data recording methodology.

Light Commercial Vehicle (LCV) Count and Factoring Methodology

Table 1 summarizes, for each of the count locations, the approximate location of the count, whether one or both directions were counted, the count duration and the raw directional counts.

A methodology was developed to factor the counts to 24 hours for comparison with daily total traffic and daily heavy commercial vehicles. Originally, the plan was to obtain date-specific information for stations from Mn/DOT's Automatic Traffic Recorders (ATR) and the Traffic Management Center (TMC) freeway detection system. Of the stations surveyed, 30 had a location similar to the TMC detectors. When that data was received, only half was reliable for use. As a result, a supplementary factoring method was developed.

TABLE 1

LIGHT COMMERCIAL VEHICLE COUNT [1]

STATION	TYPE	ROAD	LOCATION	DIR. [2]	HRS.	NB	SB	EB	WB
1	US	10/169	East of TH 101 Interchange	B	16	1102	887		
2	MN	101	South of CR 42	B	16	1217	973		
3	I	94	North of TH 101 Interchange	B	16	1348	1602		
4	I	94	Btwn CSAH 30 & Weaver Lk	B	16	1994	2830		
5	US	169	Btwn 77th Ave. & CSAH 81	B	16	1099	921		
6	I	94/694	Btwn I 494 & CSAH 61	EB	16			2451	
7	I	94/694	Btwn CSAH 81 & Brooklyn Blv	B	16			4246	3810
8	MN	100	South of CSAH 9 & Interchng	SB	12		1699		
9	US	169	South of CSAH 9 & Interchng	SB	12		2021		
10	I	494	North of CSAH 10 Interchng	NB	12	2154			
11	MN	55	East of CSAH 24/CSAH 9	B	12			1036	1096
12	MN	55	East of CSAH 6	B	12			1154	1112
13	I	394	East of Theo. Wirth Parkway	EB	12			2217	
14	US	169	North of CSAH 5/Mtka Blvd.	SB	8		1627		
15	US	12	West of Carlson Parkway	B	12			1542	1509
16	I	494	North of CSAH 5 Interchng	SB	12		2707		
17	MN	7	East of TH 101	B	16			1665	1730
18	I	494	Btwn TH 62 & CSAH 3 Overp	B	16	2759	2050		
19	US	212	North of CSAH 61 Interchng	NB	16	1360			
20	MN	100	South of 50th Ave. Interchng	SB	16		2356		
21	MN	62	East of TH 169/TH 212	B	16			2003	1933
22	MN	5	East of TH 41	B	16			776	735
23	MN	5	West of CSAH 4	EB	12			1354	
24	US	212	North of CSAH 1/Pioneer Trail	NB	16	666			
25	I	494	East of Bush Lake Road	EB	8				2479
26	US	169	North of Bloom. Ferry Bridge	B	16	957	960		
27	US	212	East of TH 41	B	12			685	501
28	US	169	South of TH 41	B	12	652	633		
29	I	35	South of I-35W & I-35E Jct	B	12	1492	1470		
30	I	35W	North of River Crossing	NB	12	3132			
31	MN	77	North of River Crossing	NB	12	1652			
32	I	494	East of France Ave Interchng	B	12			4124	3791
33	I	494	Btwn 24th & 34th Avenue	B	12			2308	2165
34	MN	77	South of Th 62	NB	12	1359			
35	I	35W	South of TH 62 Commons	NB	12				
36	MN	55	North of Minnehaha Pkwy	B	12	619	635		
38	I	94	East of TH 280	B	12			1609	2308
39	I	94	South of 42nd Avenue	NB	16	3516			
40	I	94/694	Btwn TH 100 & TH 252	WB	12				3170
41	I	694	Btwn TH 47 & TH 65	WB	12				3204
42	I	694	East of Silver Lake Road	WB	16				2831
43	I	35W	North of TH 10 Interchng	SB	12		2683		
44	US	10	East of Silver Lake Road	B	12	1207	1042		
45	MN	65	South of 73rd Avenue	B	12	768	1099		
46	MN	252	South of 85th Avenue	NB	12	1679			
47	US	10	South of Hanson Blvd.	B	12	1581	1691		
48	MN	65	Btwn 153rd & Constance	B	12	629	1183		
49	I	35	North of I-35W & 35E Jct	B	12	1247	1165		
51	I	694	Btwn TH 10 & Snelling	B	12			2211	2211
52	I	694	West of Rice St./TH 49	B	12			2698	2698
53	I	35E	South of TH 96	B	12	1353	1426		
54	I	35E	I-694 Commons	B	12			2365	2100
55	I	35W	North of TH 36	B	12	2874	2557		
56	MN	51	South of TH 36	EB	12		572		
57	MN	36	West of Victoria Street	B	12			1482	1072
58	I	35E	South of TH 36	NB	12	3095			
59	MN	36	East of White Bear Avenue	B	12			1003	1156
60	I	694	South of TH 36	NB	11	1681			
61	MN	36	East of CSAH 36	B	12			960	1090
62	I	94	West of TH 61	WB	12				2141
63	I	94	West of TH 95	B	12			656	1738
64	I	494	South of I-94	B	12	1569	1976		
65	US	10 & 61	South of County Road 39	B	12	741	715		
66	US	52	South of Butler Avenue	NB	12	1349			
67	I	35E	Near River Crossing	SB	12		1443		
68	MN	55	Mendota Bridge	EB	16			1418	
69	I	494	East of Pilot Knob Road	WB	12				2536
70	I	35E	South of Lone Oak Road	NB	12	1563			
71	MN	55	East of TH 149	B	12			336	411
72	MN	110	West of I-494 & TH 3	WB	16				1948
74	US	52	North of CSAH 26	B	12	1143	789		
75	US	61	North of County Road 22	NB	12	1137			
76	US	52	South of CSAH 42	B	12	611	559		
77	US	61	South of TH 55	B	12	704	732		
78	US	12	West of CSAH 15	B	12			937	830
79	US	10	East of TH 61	B	12			321	402
80	MN	47	North of I 694	B	16	984	899		
81	US	61	North of I 694	B	16	1196	1214		
82	US	52	West of TH 51	B	12			670	938
84	MN	62	West of TH 55	B	12			905	1796
85	MN	5	Southwest of TH 55	NB	12	770			
86	MN	101	West of TH 13	B	12			1748	2126
87	MN	13	Btwn I 35w and TH 77	EB	6			549	
88	MN	41	River Crossing	B	12	1019	1064		
89	MN	55	West of Penn Ave.	B	12			1350	1103
90	MN	55	Btwn TH 52 and CR 42	B	12			414	368
TOTAL						55978	46180	47193	59038
AVERAGE						1435	1399	1522	1789

(1) Unfactored raw counts.
(2) B: both directions counted; EB, WB, NB, SB: East-, West-, North-, South-bound only.

All usable ATR data was compiled into an hourly total, and the average hourly percent of 24-hour traffic was determined. The average hourly percent was applied to each 1998 ADT Flow Map ADT station. Each hourly percent was then divided into four equal parts to obtain 15-minute intervals. This method yielded, for each station, a 15-minute volume over the 24 hours. An average of all stations that had ATR data was then applied to the corresponding LCV station. This yielded an average percent of LCV to ADT by fifteen-minute intervals from 6:00 a.m. to 6:00 p.m., because almost all stations were counted for that duration. An average was then found for the 6:00 p.m. to 10:00 p.m. time period from the stations that were counted for that duration. The results of the factoring process are shown in Appendix C.

After factoring the LCV to 24 hours, the totals were entered into the Master Station Matrix (Appendix D).

It should be noted that for estimating the LCV percent of daily traffic at stations where only one direction of LCV traffic was counted, the ADT was divided by two before the percent was calculated.

Results and Analysis

Light Commercial Vehicle (LCV) Percent of Daily Traffic

Table 2 summarizes for each of the 86 stations surveyed the daily directional LCV volumes. These daily volumes range from a low of 400-500 vehicles per direction on MN 55 south of I-494 (station 71) to over 5,000 daily LCVs on eastbound I-494 east of France Avenue (station 32). The average LCV volume on the 137 segments counted is approximately 1,700 in the northbound and southbound directions and 1,900-2,150 for eastbound and westbound.

The LCV percent of daily volume ranges from a low of 3.2 percent for MN 5 south of Hiawatha Avenue (station 85) to a high of 9.1 percent for US 212 (east of MN 41) (station 27). Of course, the percent LCV is highly affected by the daily traffic: the highest two-way LCV volume recorded, over 9,800 vehicles on I-494 east of France Avenue (station 32), is 6.2 percent of the daily volume whereas the highest LCV percent (13.5 percent) corresponds to an equivalent two-way LCV of under 3,000 vehicles per day.

TABLE 2

LIGHT COMMERCIAL VEHICLE COUNT FACTORED TO 24 HOURS

STATION	TYPE	ROAD	DIR.	NB	SB	EB	WB	LCVADT	ADT [1]	%LCV of ADT
1	US	10/169	B	1180	965	-	-	2145	26700	8.0%
2	MN	101	B	1311	1067	-	-	2378	34300	6.9%
3	I	94	B	1509	1743	-	-	3252	51000	6.4%
4	I	94	B	2208	3261	-	-	5469	83000	6.6%
5	US	169	B	1226	1030	-	-	2256	53000	4.3%
6	I	94/694	EB	-	-	2720	-	2720	43500	6.3%
7	I	94/694	B	-	-	4615	4159	8774	100000	8.8%
8	MN	100	SB	-	2076	-	-	2076	27500	7.5%
9	US	169	SB	-	2567	-	-	2567	46000	5.6%
10	I	494	NB	2599	-	-	-	2599	37500	6.9%
11	MN	55	B	-	-	1207	1270	2477	28000	8.8%
12	MN	55	B	-	-	1348	1304	2652	34000	7.8%
13	I	394	EB	-	-	2634	-	2634	71500	3.7%
14	US	169	SB	-	2575	-	-	2575	45500	5.7%
15	US	12	B	-	-	1975	1942	3917	73000	5.4%
16	I	494	SB	-	3271	-	-	3271	47500	6.9%
17	MN	7	B	-	-	1781	1846	3627	48500	7.5%
18	I	494	B	3017	2311	-	-	5328	81000	6.6%
19	US	212	NB	1487	-	-	-	1487	26500	5.6%
20	MN	100	SB	-	2640	-	-	2640	55500	4.8%
21	MN	62	B	-	-	2141	2075	4216	95000	4.4%
22	MN	5	B	-	-	818	782	1600	28000	5.7%
23	MN	5	EB	-	-	1621	-	1621	22500	7.2%
24	US	212	NB	744	-	-	-	744	12500	6.0%
25	I	494	EB	-	-	-	2479	2479	61500	4.0%
26	US	169	B	1073	1076	-	-	2149	42000	5.1%
27	US	212	B	-	-	777	584	1361	15000	9.1%
28	US	169	B	811	795	-	-	1606	28000	5.7%
29	I	35	B	1967	1945	-	-	3912	80000	4.9%
30	I	35W	NB	3749	-	-	-	3749	52000	7.2%
31	MN	77	NB	2172	-	-	-	2172	48500	4.5%
32	I	494	B	-	-	5068	4735	9803	159000	6.2%
33	I	494	B	-	-	3121	2978	6099	137000	4.5%
34	MN	77	NB	1774	-	-	-	1774	35000	5.1%
35	I	35W	NB	3694	-	-	-	3694	53000	7.0%
36	MN	55	B	785	801	-	-	1586	28000	5.7%
38	I	94	B	-	-	2495	3194	5689	168000	3.4%
39	I	94	NB	3913	-	-	-	3913	60000	6.5%
40	I	94/694	WB	-	-	-	3936	3936	64500	6.1%
41	I	694	WB	-	-	-	3999	3999	67000	6.0%
42	I	694	WB	-	-	-	3142	3142	56500	5.6%
43	I	35W	SB	-	3235	-	-	3235	46500	7.0%
44	US	10	B	1462	1297	-	-	2759	43000	6.4%
45	MN	65	B	982	1313	-	-	2295	36000	6.4%
46	MN	252	NB	1982	-	-	-	1982	25500	7.8%
47	US	10	B	1985	2095	-	-	4080	68000	6.0%
48	MN	65	B	811	1427	-	-	2238	35000	6.4%
49	I	35	B	1633	1578	-	-	3211	65000	4.9%
51	I	694	B	-	-	3661	2864	6525	110000	5.9%
52	I	694	B	-	-	3930	3262	7192	95000	7.6%
53	I	35E	B	1763	1836	-	-	3599	69000	5.2%
54	I	35E	B	-	-	3042	2777	5819	114000	5.1%
55	I	35W	B	3533	3216	-	-	6749	111000	6.1%
56	MN	51	EB	-	716	-	-	716	20500	3.5%
57	MN	36	B	-	-	1831	1421	3252	88000	3.7%
58	I	35E	NB	3843	-	-	-	3843	63000	6.1%
59	MN	36	B	-	-	1193	1364	2557	32000	8.0%
60	I	694	NB	2182	-	-	-	2182	33000	6.6%
61	MN	36	B	-	-	1174	1346	2520	42000	6.0%
62	I	94	WB	-	-	-	2734	2734	53500	5.1%
63	I	94	B	-	-	1018	2104	3122	61000	5.1%
64	I	494	B	1955	2377	-	-	4332	65000	6.7%
65	US	10 & 61	B	900	863	-	-	1763	31500	5.6%
66	US	52	NB	1669	-	-	-	1669	27000	6.2%
67	I	35E	SB	-	1834	-	-	1834	34500	5.3%
68	MN	55	EB	-	-	1485	-	1485	11000	13.5%
69	I	494	WB	-	-	-	3066	3066	47000	6.5%
70	I	35E	NB	2028	-	-	-	2028	41500	4.9%
71	MN	55	B	-	-	420	497	917	15600	5.9%
72	MN	110	WB	-	-	-	2191	2191	45500	4.8%
74	US	52	B	1405	1033	-	-	2438	42000	5.8%
75	US	61	NB	1434	-	-	-	1434	25000	5.7%
76	US	52	B	772	705	-	-	1477	24900	5.9%
77	US	61	B	873	898	-	-	1771	28000	6.3%
78	US	12	B	-	-	1112	984	2096	26000	8.1%
79	US	10	B	-	-	395	476	871	12500	7.0%
80	MN	47	B	1069	984	-	-	2053	35500	5.8%
81	US	61	B	1272	1291	-	-	2563	29000	8.8%
82	US	52	B	-	-	786	1054	1840	20500	9.0%
84	MN	62	B	-	-	1242	2170	3412	61000	5.6%
85	MN	5	NB	1159	-	-	-	1159	36500	3.2%
86	MN	101	B	-	-	1982	2371	4353	39500	11.0%
87	MN	13	EB	-	-	1052	-	1052	12500	8.4%
88	MN	41	B	1146	1191	-	-	2337	18900	12.4%
89	MN	55	B	-	-	1558	1311	2869	35000	8.2%
90	MN	55	B	-	-	451	497	948	14100	6.7%
TOTAL				**71077**	**56012**	**58653**	**70914**			**5.9%**
AVERAGE				**1777**	**1697**	**1892**	**2149**			**5.9%**

[1] ADTs were divided by two at locations where LCVs were counted in only one direction.

Directional Split

Table 3 displays the percent LCVs per direction for stations where both directions were counted. In general, one would expect a 50-50 directional split on a daily basis. However, this even split is affected by the degree to which drivers use a different route on their return trip, by the amount of through traffic in the LCV stream, and by the fact that the daily LCV estimates are factored from 12-hour and 16-hour counts.

Of the 51 locations where both directions were counted, 41 had splits that were in the 45/55 to 50/50 range. Of the remaining 10, nine ranged from 40/60 to 44/64 and one had a 33/67 directional split (I-94 west of TH 95 in Washington County, station 63).

Overall, north-south routes exhibit an average directional split of 51/49 percent while east-west routes average 47/53 percent. In both cases the overall split is very close to the 50/50 expected split.

TABLE 3

DAILY LIGHT COMMERCIAL VEHICLE DIRECTIONAL SPLIT

STATION	TYPE	ROAD	DIR.	% NB	% SB	% EB	% WB
1	US	10/169	B	55%	45%		
2	MN	101	B	55%	45%		
3	I	94	B	46%	54%		
4	I	94	B	40%	60%		
5	US	169	B	54%	46%		
6	I	94/694	EB				
7	I	94/694	B			53%	47%
8	MN	100	SB				
9	US	169	SB				
10	I	494	NB				
11	MN	55	B			49%	51%
12	MN	55	B			51%	49%
13	I	394	EB				
14	US	169	SB				
15	US	12	B			50%	50%
16	I	494	SB				
17	MN	7	B			49%	51%
18	I	494	B	57%	43%		
19	US	212	NB				
20	MN	100	SB				
21	MN	62	B			51%	49%
22	MN	5	B			51%	49%
23	MN	5	EB				
24	US	212	NB				
25	I	494	EB				
26	US	169	B	50%	50%		
27	US	212	B			57%	43%
28	US	169	B	50%	50%		
29	I	35	B	50%	50%		
30	I	35W	NB				
31	MN	77	NB				
32	I	494	B			52%	48%
33	I	494	B			51%	49%
34	MN	77	NB				
35	I	35W	NB				
36	MN	55	B	49%	51%		
38	I	94	B			44%	56%
39	I	94	NB				
40	I	94/694	WB				
41	I	694	WB				
42	I	694	WB				
43	I	35W	SB				
44	US	10	B	53%	47%		
45	MN	65	B	43%	57%		
46	MN	252	NB				
47	US	10	B	49%	51%		
48	MN	65	B	36%	64%		
49	I	35	B	51%	49%		
51	I	694	B			56%	44%
52	I	694	B			55%	45%
53	I	35E	B	49%	51%		
54	I	35E	B			52%	48%
55	I	35W	B	52%	48%		
56	MN	51	EB				
57	MN	36	B			56%	44%
58	I	35E	NB				
59	MN	36	B			47%	53%
60	I	694	NB				
61	MN	36	B			47%	53%
62	I	94	WB				
63	I	94	B			33%	67%
64	I	494	B	45%	55%		
65	US	10 & 61	B	51%	49%		
66	US	52	NB				
67	I	35E	SB				
68	MN	55	EB				
69	I	494	WB				
70	I	35E	NB				
71	MN	55	B			46%	54%
72	MN	110	WB				
74	US	52	B	58%	42%		
75	US	61	NB				
76	US	52	B	52%	48%		
77	US	61	B	49%	51%		
78	US	12	B			53%	47%
79	US	10	B			45%	55%
80	MN	47	B	52%	48%		
81	US	61	B	50%	50%		
82	US	52	B			43%	57%
84	MN	62	B			36%	64%
85	MN	5	NB				
86	MN	101	B			46%	54%
87	MN	13	EB				
88	MN	41	B	49%	51%		
89	MN	55	B			54%	46%
90	MN	55	B			48%	52%
WEIGHTED AVERAGE				51%	49%	47%	53%

Light Commercial Vehicle (LCVs) by Facility Type and Area Type

The percent LCV of daily traffic vary substantially by type of facility used and the area type (Table 4). Overall, 6-7 percent of the daily traffic on expressways are LCVs, regardless of location in the metro area. The variation on freeways is large: the I-494/ I-694 ring carries the highest percent of LCVs (14 percent) whereas freeways outside the ring only carry an average of 2 percent. Overall freeways carry a lower percent LCV of daily traffic (5.6 percent) than expressways (7 percent) due primarily to the higher daily volumes on freeways.

TABLE 4
PERCENT LIGHT COMMERCIAL VEHICLES OF DAILY TRAFFIC
BY FACILITY TYPE AND AREA TYPE

	Area Type				
Facility Type	Inside Ring	On Ring	Outside Ring	Regional Cordon Line	Total
Freeway	5.0%	14.4%	2.4%	5.2%	5.6%
Expressway	6.3%	--	7.4%	7.2%	7.0%
Total	5.3%	14.4%	3.5%	6.3%	5.9%

Time-of-Day Light Commercial Vehicle (LCV) Traffic Profile

Figures 2 through 5 depict the variation of LCV freeway volumes, as percent of daily LCV traffic, by 15-minute intervals. Several observations can be made:

- The profile of regional cordon line stations (Figure 2) shows a definite early morning peak 6:00 to 7:00 a.m. with an hourly total of approximately 9.5 percent of daily LCV traffic. Several smaller peaks occur until about 10:30 a.m. and an even smaller peak occurs around 4:30 p.m. with about 6 percent of daily traffic. Overall, LCV traffic builds quickly towards the morning peak and declines steadily as the day progresses.

- As traffic approaches the ring (Figure 3), the morning peak shows up distinctly, but the percent of LCVs remains at similar levels throughout the rest of the day, including the afternoon peak. LCV traffic begins to decline thereafter (after about 5:00 p.m.).

- On the freeway ring (Figure 4), there are no peaking "spikes" to speak of. Once LCV volumes reach the 6:00-7:00 peak level (about 6.5 percent of daily) they remain at similar levels till about 4:00 p.m. when they begin to decline steadily.

- Freeway segments inside the ring (Figure 5) show a slightly different pattern. LCVs do not exhibit peaking "spikes." Instead, the highest volumes occur later in the morning starting around 8:00 a.m., remain steady until 3:00 p.m., and decline steadily thereafter.

Figures 6 through 8 depict LCV volume profile for expressways at the three area locations as presented previously for freeways (except for the ring, of course). Except for expressway locations just outside the ring, there is less peaking than on freeways. Traffic remains fairly stable between 6:30 a.m. and 4:00 p.m. Expressways just outside the ring, exhibit several spikes, with the highest being around noon.

Figure 9 provides a summary of all LCV counts for all road types and area types: As a whole, the flow of LCVs is fairly constant starting at around 6:15 a.m. until about 4:15 p.m., except for a slight "dip" during the a.m. peak period (possibly in an effort to avoid the commuter peak).

FIGURE 2
DAILY FLOW PROFILE
FREEWAY REGIONAL CORDON LINE

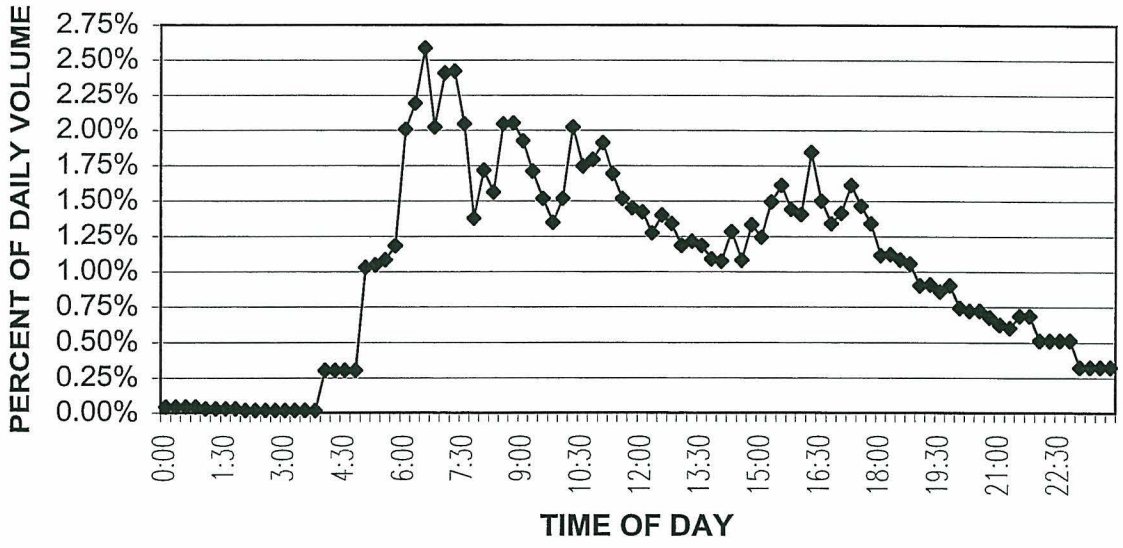


FIGURE 3
DAILY FLOW PROFILE
FREEWAY OUTSIDE RING

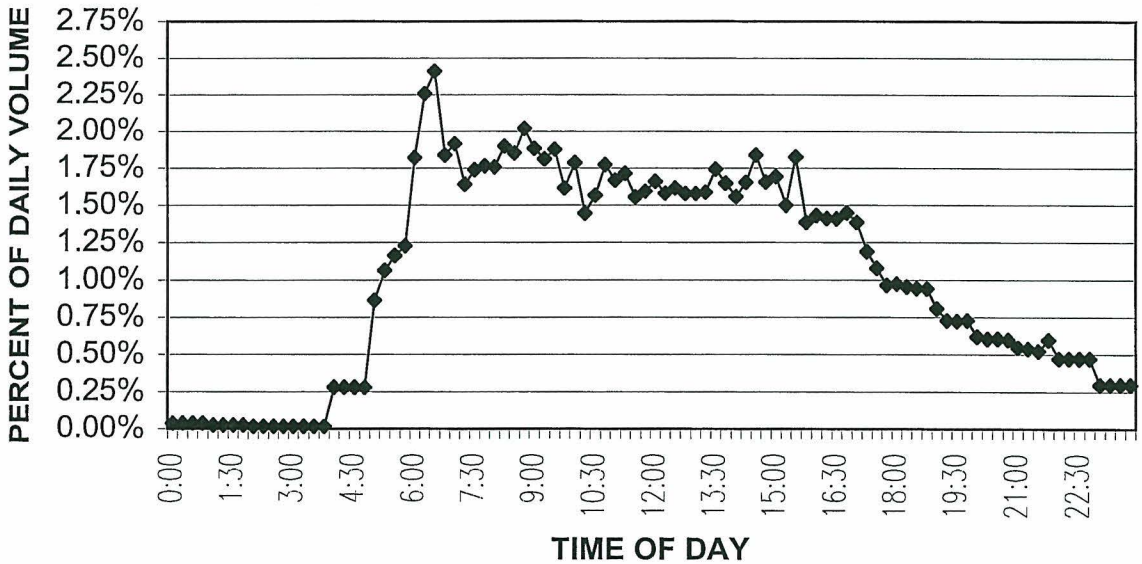


FIGURE 4
DAILY FLOW PROFILE
FREEWAY ON RING

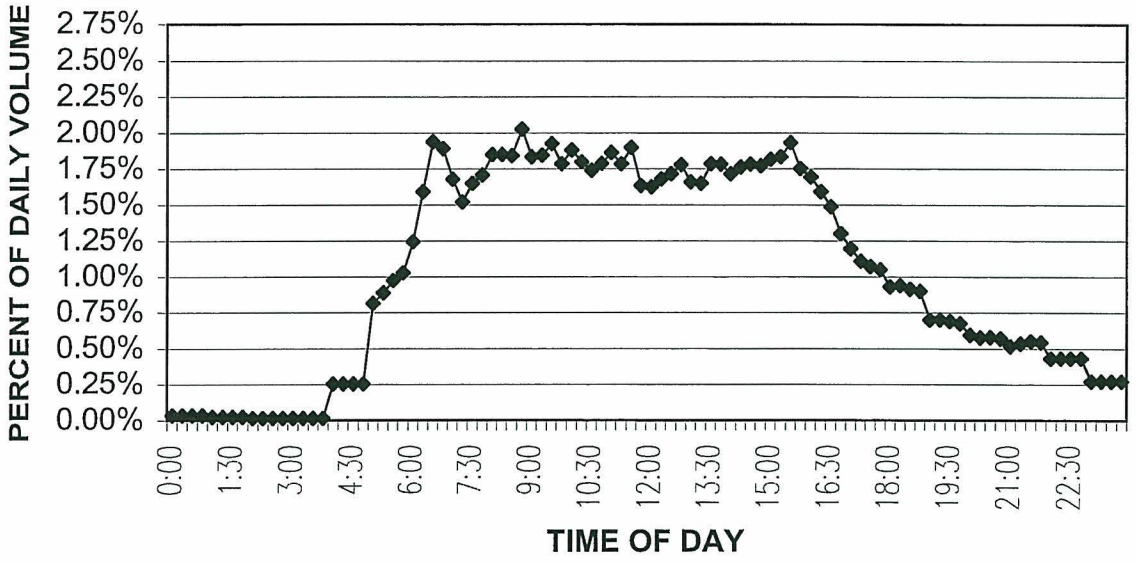


FIGURE 5
DAILY FLOW PROFILE
FREEWAY INSIDE RING

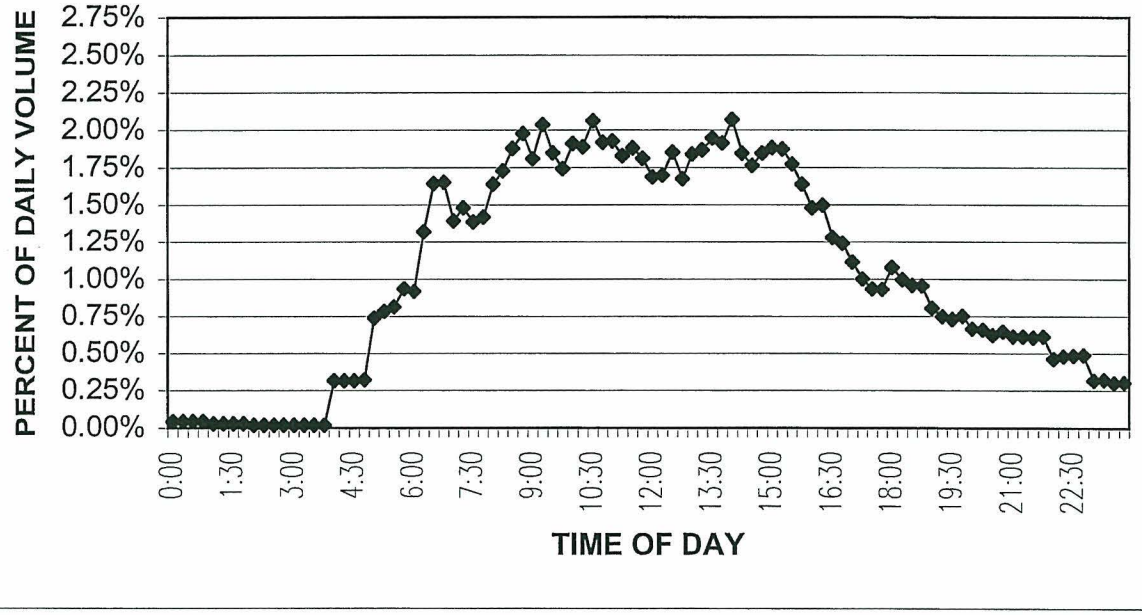


FIGURE 6
DAILY FLOW PROFILE
EXPRESSWAY REGIONAL CORDON LINE

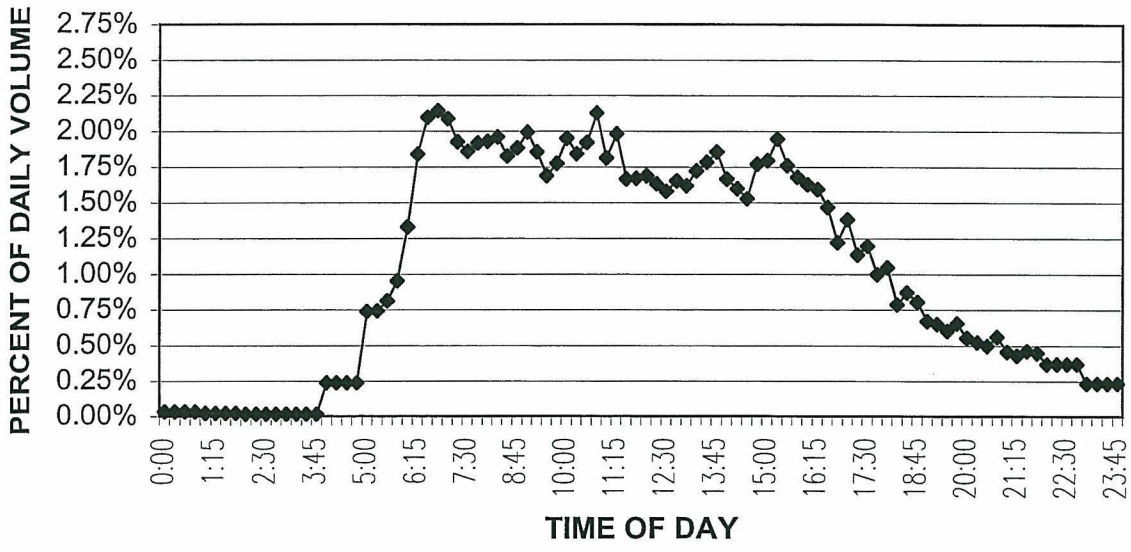


FIGURE 7
DAILY FLOW PROFILE
EXPRESSWAY OUTSIDE RING

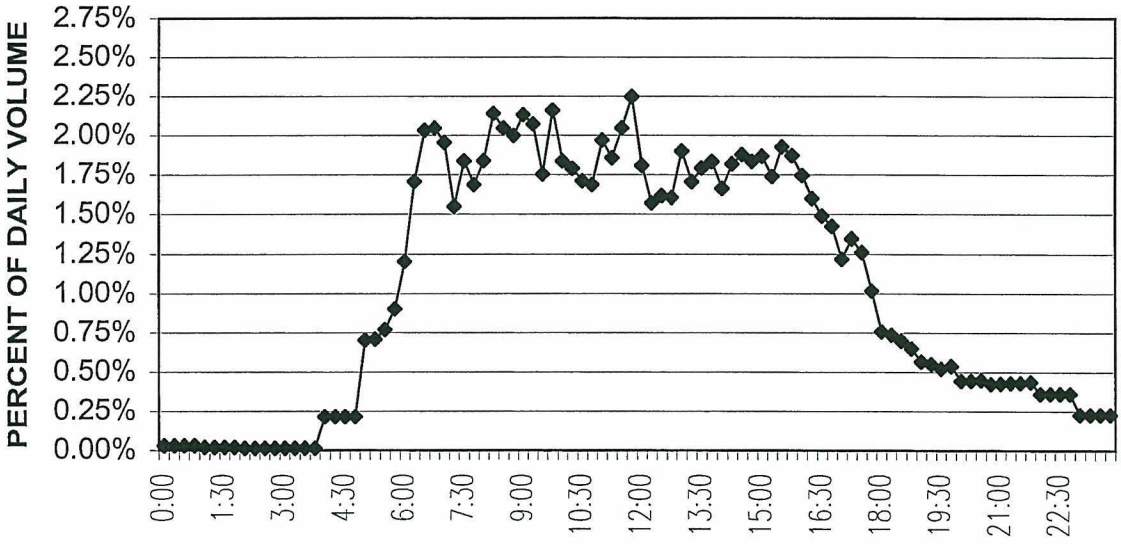


FIGURE 8
DAILY FLOW PROFILE
EXPRESSWAY INSIDE RING

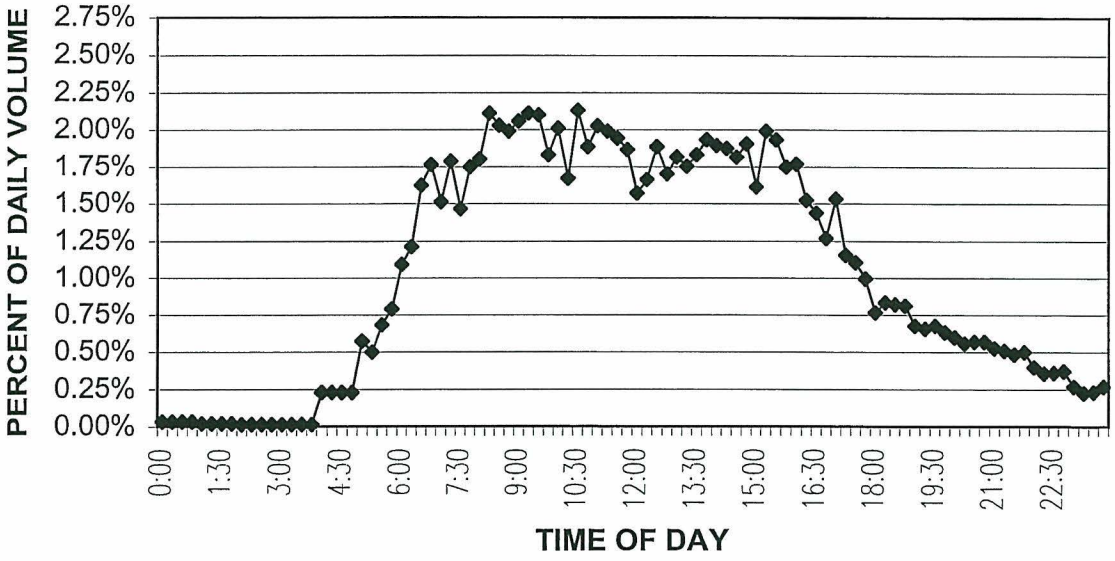
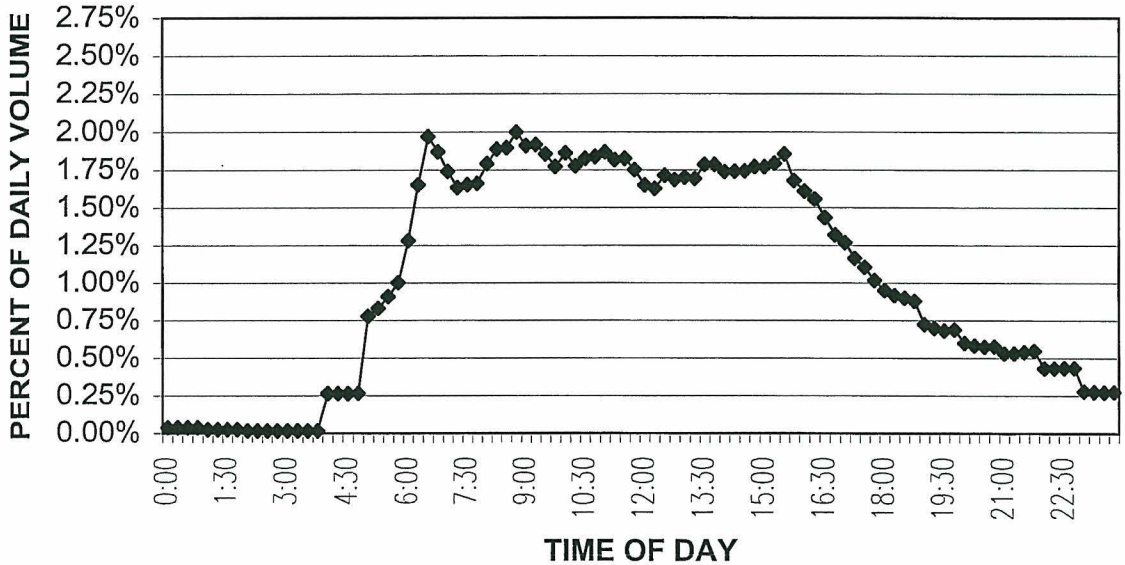


FIGURE 9
DAILY FLOW PROFILE
ALL ROAD TYPES & ALL AREAS



Comparison of Light Commercial Vehicle (LCV) and Heavy Commercial Vehicle (HCV) Volumes

Table 5 and Figure 10 show LCV volumes and compare light and heavy commercial vehicle (HCV) percent of ADT. It will come as a surprise to many that, overall, the percent of LCVs in the traffic stream is higher than the percent of HCVs (5.9 and 5.3 percent, respectively). Some highlights:

• Maximum daily LCV volume	9,800	(Station 32: I-494 East of France)
• Maximum daily HCV volume	8,700	(Station 38: I-94 East of TH 280)
• Maximum total CV volume	17,300	(Station 32: I-494 East of France)
• Maximum percent LCV of daily traffic:	13.5%	(Station 68: MN 55 at Mendota Br.)
• Maximum percent HCV of daily traffic:	15.9%	(Station 86: MN 101 West of TH 13)
• Maximum percent CV of daily traffic:	27.0%	(Station 86: MN 101 West of TH 13)

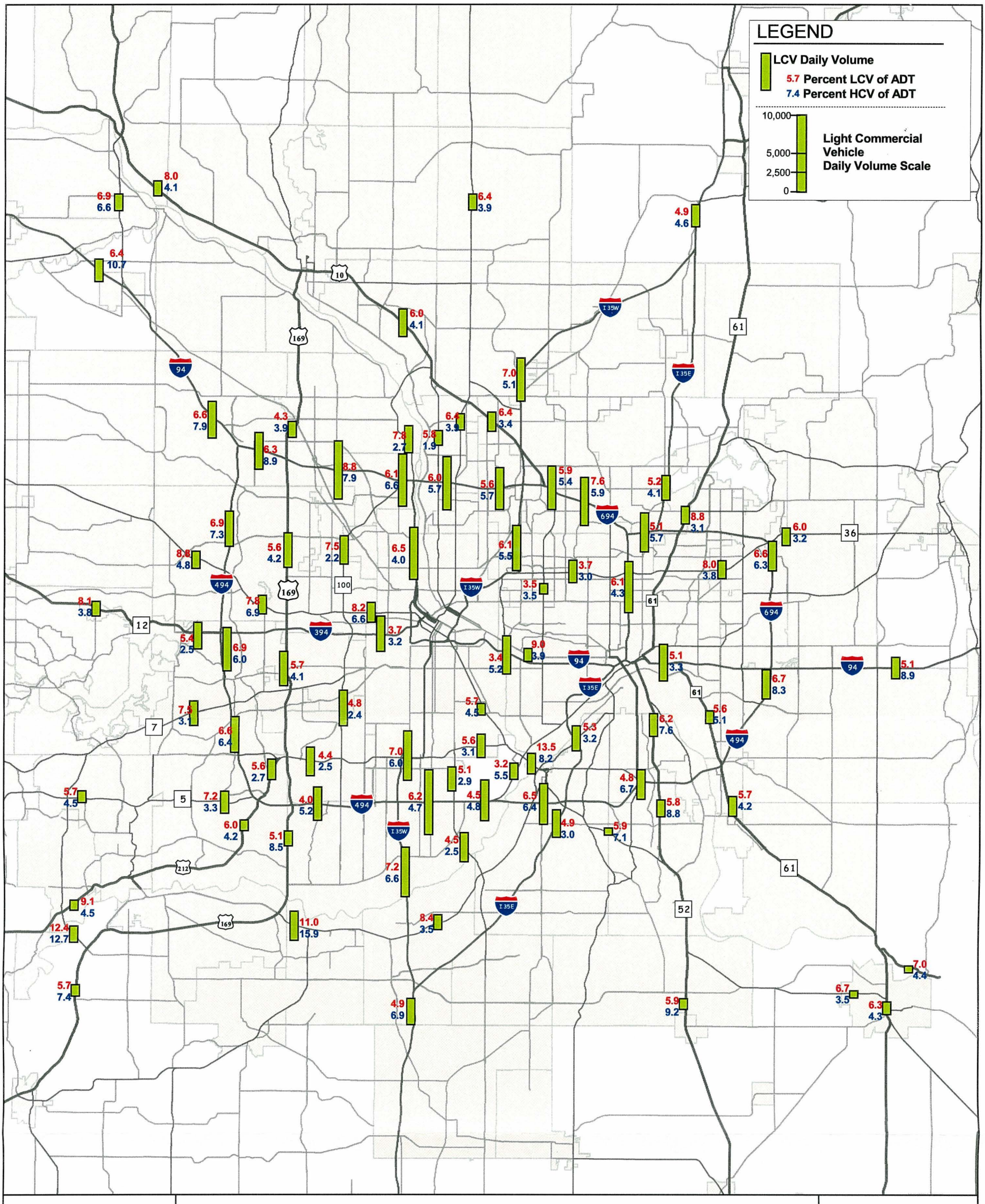
TABLE 5

COMPARISON OF DAILY LIGHT COMMERCIAL AND HEAVY COMMERCIAL VEHICLE VOLUMES [1]

STATION	TYPE	ROAD	DIR.	ADT [2]	LCVADT	%LCV OF ADT	HCADT [2]	% HCADT OF ADT	LCV + HCV	% CV OF ADT
1	US	10/169	B	26700	2145	8.0%	1100	4.1%	3245	12.2%
2	MN	101	B	34300	2378	6.9%	2250	6.6%	4628	13.5%
3	I	94	B	51000	3252	6.4%	5450	10.7%	8702	17.1%
4	I	94	B	83000	5469	6.6%	6550	7.9%	12019	14.5%
5	US	169	B	53000	2256	4.3%	2050	3.9%	4306	8.1%
6	I	94/694	EB	43500	2720	6.3%	3850	8.9%	6570	15.1%
7	I	94/694	B	100000	8774	8.8%	7900	7.9%	16674	16.7%
8	MN	100	SB	27500	2076	7.5%	600	2.2%	2676	9.7%
9	US	169	SB	46000	2567	5.6%	1950	4.2%	4517	9.8%
10	I	494	NB	37500	2599	6.9%	2725	7.3%	5324	14.2%
11	MN	55	B	28000	2477	8.8%	1350	4.8%	3827	13.7%
12	MN	55	B	34000	2652	7.8%	2350	6.9%	5002	14.7%
13	I	394	EB	71500	2634	3.7%	2300	3.2%	4934	6.9%
14	US	169	SB	45500	2575	5.7%	1850	4.1%	4425	9.7%
15	US	12	B	73000	3917	5.4%	1800	2.5%	5717	7.8%
16	I	494	SB	47500	3271	6.9%	2850	6.0%	6121	12.9%
17	MN	7	B	48500	3627	7.5%	1500	3.1%	5127	10.6%
18	I	494	B	81000	5328	6.6%	5200	6.4%	10528	13.0%
19	US	212	NB	26500	1487	5.6%	725	2.7%	2212	8.3%
20	MN	100	SB	55500	2640	4.8%	1350	2.4%	3990	7.2%
21	MN	62	B	95000	4216	4.4%	2400	2.5%	6616	7.0%
22	MN	5	B	28000	1600	5.7%	1250	4.5%	2850	10.2%
23	MN	5	EB	22500	1621	7.2%	750	3.3%	2371	10.5%
24	US	212	NB	12500	744	6.0%	525	4.2%	1269	10.2%
25	I	494	EB	61500	2479	4.0%	3200	5.2%	5679	9.2%
26	US	169	B	42000	2149	5.1%	3550	8.5%	5699	13.6%
27	US	212	B	15000	1361	9.1%	675	4.5%	2036	13.6%
28	US	169	B	28000	1606	5.7%	2075	7.4%	3681	13.1%
29	I	35	B	80000	3912	4.9%	5500	6.9%	9412	11.8%
30	I	35W	NB	52000	3749	7.2%	3450	6.6%	7199	13.8%
31	MN	77	NB	48500	2172	4.5%	1200	2.5%	3372	7.0%
32	I	494	B	159000	9803	6.2%	7500	4.7%	17303	10.9%
33	I	494	B	137000	6099	4.5%	6600	4.8%	12699	9.3%
34	MN	77	NB	35000	1774	5.1%	1000	2.9%	2774	7.9%
35	I	35W	NB	53000	3694	7.0%	3200	6.0%	6894	13.0%
36	MN	55	B	28000	1586	5.7%	1250	4.5%	2836	10.1%
38	I	94	B	168000	5689	3.4%	8700	5.2%	14389	8.6%
39	I	94	NB	60000	3913	6.5%	2400	4.0%	6313	10.5%
40	I	94/694	WB	64500	3936	6.1%	4250	6.6%	8186	12.7%
41	I	694	WB	67000	3999	6.0%	3800	5.7%	7799	11.6%
42	I	694	WB	56500	3142	5.6%	3200	5.7%	6342	11.2%
43	I	35W	SB	46500	3235	7.0%	2375	5.1%	5610	12.1%
44	US	10	B	43000	2759	6.4%	1450	3.4%	4209	9.8%
45	MN	65	B	36000	2295	6.4%	1400	3.9%	3695	10.3%
46	MN	252	NB	25500	1982	7.8%	700	2.7%	2682	10.5%
47	US	10	B	68000	4080	6.0%	2800	4.1%	6880	10.1%
48	MN	65	B	35000	2238	6.4%	1350	3.9%	3588	10.3%
49	I	35	B	65000	3211	4.9%	3000	4.6%	6211	9.6%
51	I	694	B	110000	6525	5.9%	5900	5.4%	12425	11.3%
52	I	694	B	95000	7192	7.6%	5600	5.9%	12792	13.5%
53	I	35E	B	69000	3599	5.2%	2800	4.1%	6399	9.3%
54	I	35E	B	114000	5819	5.1%	6500	5.7%	12319	10.8%
55	I	35W	B	111000	6749	6.1%	6100	5.5%	12849	11.6%
56	MN	51	EB	20500	716	3.5%	725	3.5%	1441	7.0%
57	MN	36	B	88000	3252	3.7%	2600	3.0%	5852	6.7%
58	I	35E	NB	63000	3843	6.1%	2700	4.3%	6543	10.4%
59	MN	36	B	32000	2557	8.0%	1200	3.8%	3757	11.7%
60	I	694	NB	33000	2182	6.6%	2075	6.3%	4257	12.9%
61	MN	36	B	42000	2520	6.0%	1350	3.2%	3870	9.2%
62	I	94	WB	53500	2734	5.1%	1750	3.3%	4484	8.4%
63	I	94	B	61000	3122	5.1%	5400	8.9%	8522	14.0%
64	I	494	B	65000	4332	6.7%	5400	8.3%	9732	15.0%
65	US	10 & 61	B	31500	1763	5.6%	1600	5.1%	3363	10.7%
66	US	52	NB	27000	1669	6.2%	2050	7.6%	3719	13.8%
67	I	35E	SB	34500	1834	5.3%	1100	3.2%	2934	8.5%
68	MN	55	EB	11000	1485	13.5%	900	8.2%	2385	21.7%
69	I	494	WB	47000	3066	6.5%	3000	6.4%	6066	12.9%
70	I	35E	NB	41500	2028	4.9%	1225	3.0%	3253	7.8%
71	MN	55	B	15600	917	5.9%	1100	7.1%	2017	12.9%
72	MN	110	WB	45500	2191	4.8%	3050	6.7%	5241	11.5%
74	US	52	B	42000	2438	5.8%	3700	8.8%	6138	14.6%
75	US	61	NB	25000	1434	5.7%	1050	4.2%	2484	9.9%
76	US	52	B	24900	1477	5.9%	2300	9.2%	3777	15.2%
77	US	61	B	28000	1771	6.3%	1200	4.3%	2971	10.6%
78	US	12	B	26000	2096	8.1%	975	3.8%	3071	11.8%
79	US	10	B	12500	871	7.0%	550	4.4%	1421	11.4%
80	MN	47	B	35500	2053	5.8%	675	1.9%	2728	7.7%
81	US	61	B	29000	2563	8.8%	900	3.1%	3463	11.9%
82	US	52	B	20500	1840	9.0%	800	3.9%	2640	12.9%
84	MN	62	B	61000	3412	5.6%	1900	3.1%	5312	8.7%
85	MN	5	NB	36500	1159	3.2%	2000	5.5%	3159	8.7%
86	MN	101	B	39500	4353	11.0%	6300	15.9%	10653	27.0%
87	MN	13	EB	12500	1052	8.4%	438	3.5%	1490	11.9%
88	MN	41	B	18900	2337	12.4%	2400	12.7%	4737	25.1%
89	MN	55	B	35000	2869	8.2%	2300	6.6%	5169	14.8%
90	MN	55	B	14100	948	6.7%	500	3.5%	1448	10.3%
WEIGHTED AVERAGE						5.9%	2644	5.3%	5628	11.2%

[1] Source: 1998 Mn/DOT Metro Area Traffic Flow Map

[2] For purposes of calculating LCV percent, ADTs and HCADTs were divided by two at locations where LCVs were counted in only one direction.



SRF Consulting Group, Inc.

N

0 1 2 3 4 Miles

November 4, 1999

1999 Light Commercial Vehicle Volumes

Minnesota Department of Transportation

LIGHT COMMERCIAL VEHICLE INVENTORY

FIGURE

10

Light Commercial Vehicles (LCVs) by Facility Type and Volume Group

The following analysis of the LCV data is an attempt to understand how the LCV component of total vehicular traffic changes as LCV volumes increase. Tables 6 and 7 show the sample size and average LCV volume by volume group and by facility type. Table 8 and Figure 11 show the corresponding percent LCV of ADT. Several points are worth noting:

- The minimum LCV daily volume recorded on expressways was 850, and the maximum was 4,400. In contrast, the minimum LCV volume recorded on freeways was 2,300 and the maximum was 9,800.

- The LCV percent of ADT (Table 8) is higher on expressways than on freeways, and is due primarily to the higher range of ADTs found on freeways. The range of LCV percent on expressways is 6.5 to 9.0, while on freeways it is 5.1 to 7.2 percent.

- Figure 11 shows that, in general, as LCV volumes increase the percent LCV of ADT also increases, regardless of ADT volume or facility type.

TABLE 6
NUMBER OF STATIONS BY LCV VOLUME GROUP AND FACILITY TYPE

	LCV VOLUME GROUP						
Facility Type	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	Total
Freeway	--	--	14	19	14	2	49
Expressway	3	10	22	2	--	--	37
Total	3	10	36	21	14	2	86

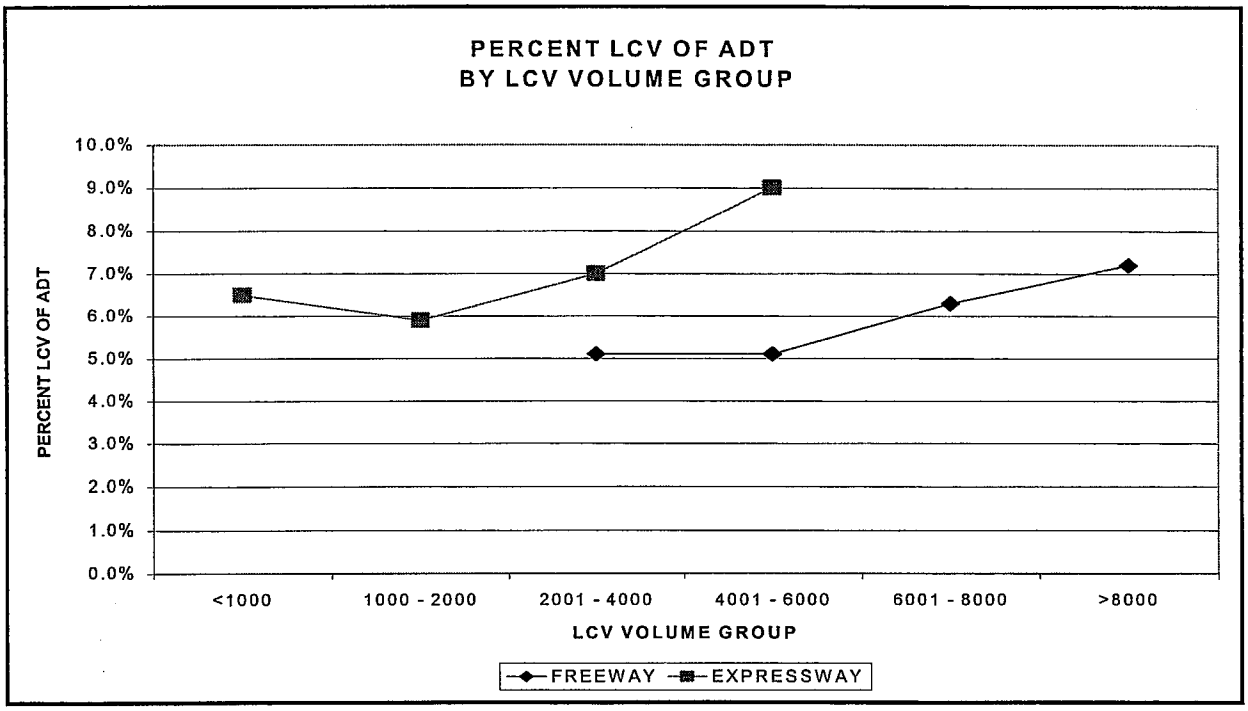
TABLE 7
AVERAGE LCV VOLUME BY LCV VOLUME GROUP AND FACILITY TYPE

	LCV Volume Group						Average
Facility Type	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	
Freeway	--	--	3,211	4,946	7,018	9,288	5,220
Expressway	912	1,592	2,642	4,252	--	--	2,305
Total	912	1,592	2,863	4,880	7,018	9,288	3,965

TABLE 8
PERCENT LCV OF ADT BY LCV VOLUME GROUP AND FACILITY TYPE

	LCV Volume Group						Average
Facility Type	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	
Freeway	--	--	5.1%	5.1%	6.3%	7.2%	5.6%
Expressway	6.5%	5.9%	7.0%	9.0%	--	--	6.9%
Total	6.5%	5.9%	6.1%	5.3%	6.3%	7.2%	5.9%

FIGURE 11


PERCENT LCV OF ADT
BY LCV VOLUME GROUP
PERCENT LCV OF ADT
10.0%
9.0%
8.0%
7.0%
6.0%
5.0%
4.0%
3.0%
2.0%
1.0%
0.0%
<1000
1000 - 2000
2001 - 4000
4001 - 6000
6001 - 8000
>8000
LCV VOLUME GROUP
FREEWAY
EXPRESSWAY

Light Commercial Vehicle (LCV) Percent of ADT by Daily Traffic Volume Group

This section analyzes how LCV volumes vary with total vehicular traffic. Daily traffic has been divided in groups of 20,000 ADT for purposes of this analysis. Tables 9 and 10 show the number of LCV segments examined and the average LCV volumes by ADT volume group. Table 11 and Figure 12 show the corresponding LCV percent of ADT by ADT volume group and facility type. Some observations follow.

- The LCV percent of daily traffic on expressways declines as ADT increases (from 8.5 percent on roads with ADTs below 20,000 daily trips to 4.4 percent on roads with 80-100,000 daily trips). This inverse relationship is almost linear. Interestingly, the ADT on expressway segments examined carry less than 60,000 trips per day with one exception. TH 36, west of Victoria Street, has an ADT of 88,000 and carries 3,250 LCVs. However, this is in a transition area from expressway to freeway design.

- The LCV percent of daily traffic on freeways, by contrast, is fairly uniform across ADT volume changes. The highest percent is 5.6 and the lowest is 4.4, a range of only 1.2 percent.

These are very interesting findings. The implications are that (1) LCV volumes on expressways can be estimated if the daily traffic is known; and (2) LCV volumes on freeways can be estimated simply by taking a constant percent of the ADT volume.

TABLE 9
TOTAL STATIONS BY ADT VOLUME GROUP AND FACILITY TYPE

Facility Type	ADT Volume Group (x1,000)								Total
	<20	20-40	40-60	60-80	80-100	100-120	120-140	>140	
Freeway	0	0	5	13	14	9	5	3	49
Expressway	5	22	9	0	1	0	0	0	37
Total	5	22	14	13	15	9	5	3	86

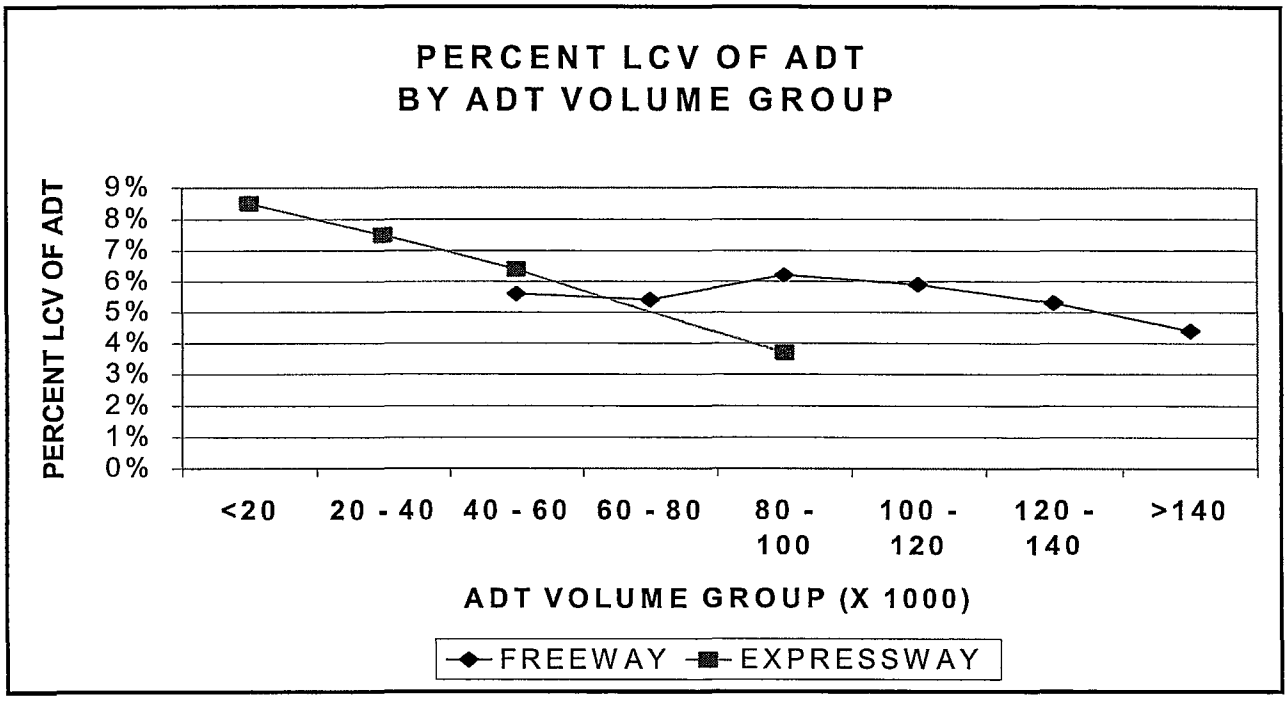
TABLE 10
AVERAGE LCV VOLUME BY LCV VOLUME GROUP AND FACILITY TYPE

Facility Type	ADT Volume Group (x1,000)								Total
	<20	20-40	40-60	60-80	80-100	100-120	120-140	>140	
Freeway	--	--	2,851	3,744	5,616	6,537	6,922	6,920	5,220
Expressway	1,286	2,222	2,968	--	3,252	--	--	--	2,305
Total	1,286	2,222	2,926	3,744	5,458	6,537	6,922	6,920	3,965

TABLE 11
PERCENT LCV OF ADT BY ADT VOLUME GROUP AND FACILITY TYPE

Facility Type	ADT Volume Group (x1,000)								Total
	<20	20-40	40-60	60-80	80-100	100-120	120-140	>140	
Freeway	--	--	5.6%	5.4%	6.2%	5.9%	5.3%	4.4%	5.9%
Expressway	8.5%	7.5%	6.4%	--	3.7%	--	--	--	6.9%
Total	8.5%	7.5%	6.1%	5.4%	6.0%	5.9%	5.3%	4.4%	5.9%

FIGURE 12


PERCENT LCV OF ADT
BY ADT VOLUME GROUP
PERCENT LCV OF ADT
9%
8%
7%
6%
5%
4%
3%
2%
1%
0%
<20
20 - 40
40 - 60
60 - 80
80 - 100
100 - 120
120 - 140
>140
ADT VOLUME GROUP (X 1000)
FREEWAY
EXPRESSWAY

Heavy Commercial Vehicles (HCVs) by Facility Type and Volume Group

A similar analysis as that done for LCVs was conducted for HCVs. The results are shown in Tables 12, 13 and 14 and in Figure 13. Findings:

- The HCV percent of ADT for expressways ranges from 3.4 to 15.9. Figure 13 shows that, as HCV volumes increase, the percent HCV of ADT increases at an increasing rate. It should be noted that in almost all segments examined, HCV volumes on expressways ranged from 500 to 2,600 vehicles per day. The exception is TH 101 west of TH 13 where the daily volume of HCVs is 6,300 (15.9 percent of the 39,500 ADT at that location).

- For freeways, the HCV percent of ADT ranges from 2.8 to 5.8. Figure 13 shows that as HCV volumes increase up to about 5,000 daily trips the HCV percent of ADT increases at a slight rate. The HCV percent of ADT is constant for HCV volumes in excess of 5,000.

TABLE 12
NUMBER OF STATIONS BY HCV VOLUME GROUP AND FACILITY TYPE

Facility Type	HCV VOLUME GROUP						Total
	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	
Freeway	--	4	14	16	13	2	49
Expressway	8	19	9	--	1	--	37
Total	8	23	23	16	14	2	86

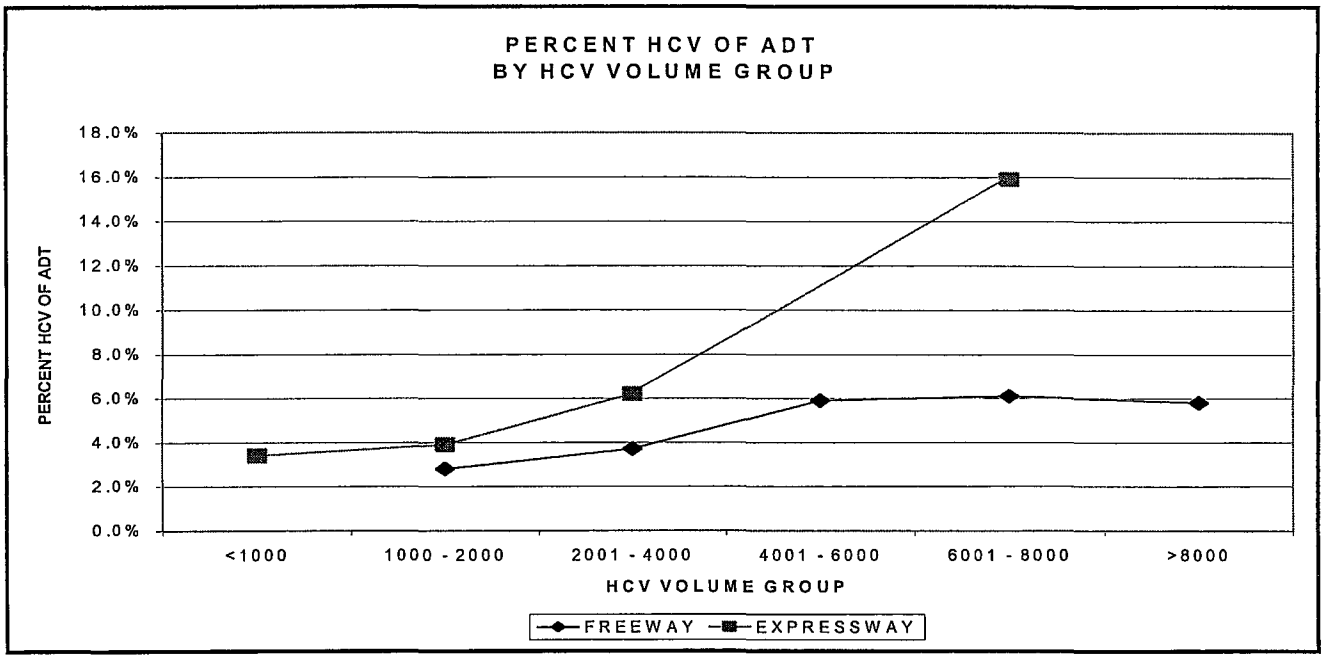
TABLE 13
AVERAGE HCV VOLUME BY HCV VOLUME GROUP AND FACILITY TYPE

Facility Type	HCV Volume Group						Average
	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	
Freeway	--	1,787	2,971	5,212	6,819	8,600	4,857
Expressway	745	1,342	2,436	--	6,300	--	1,612
Average	745	1,419	2,761	5,212	6,782	8,600	3,461

TABLE 14
PERCENT HCV OF ADT BY HCV VOLUME GROUP AND FACILITY TYPE

Facility Type	HCV Volume Group						Average
	<1,000	1,001-2,000	2,001-4,000	4,001-6,000	6,001-8,000	>8,001	
Freeway	--	2.8%	3.7%	5.9%	6.1%	5.8%	5.2%
Expressway	3.4%	3.9%	6.2%	--	15.9%	--	4.8%
Total	3.4%	3.6%	4.3%	5.9%	6.3%	5.8%	5.2%

FIGURE 13


PERCENT HCV OF ADT
BY HCV VOLUME GROUP
PERCENT HCV OF ADT
18.0%
16.0%
14.0%
12.0%
10.0%
8.0%
6.0%
4.0%
2.0%
0.0%
<1000
1000 - 2000
2001 - 4000
4001 - 6000
6001 - 8000
>8000
HCV VOLUME GROUP
FREEWAY
EXPRESSWAY

APPENDIX A

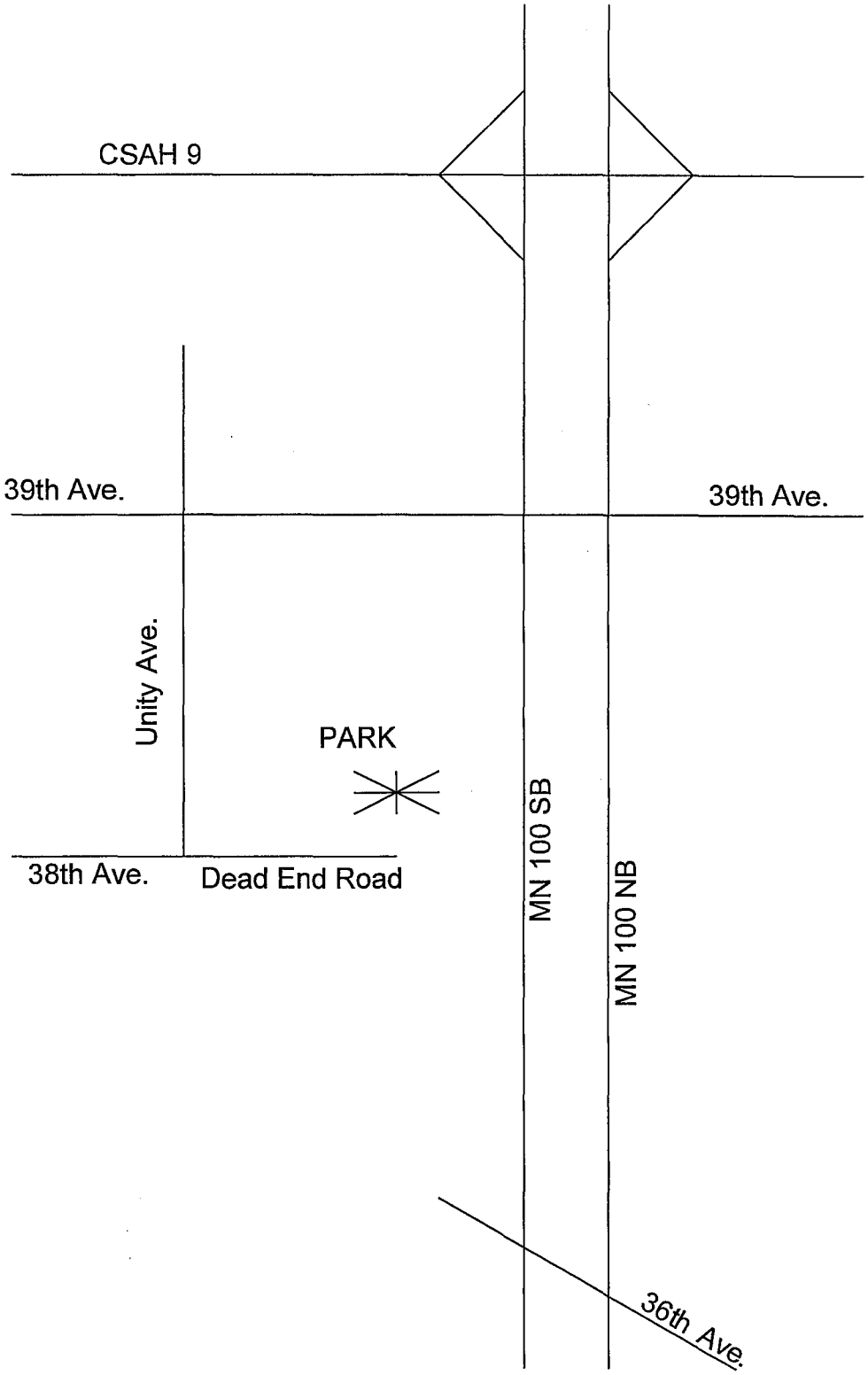
STATION BY FACILITY TYPE AND AREA TYPE

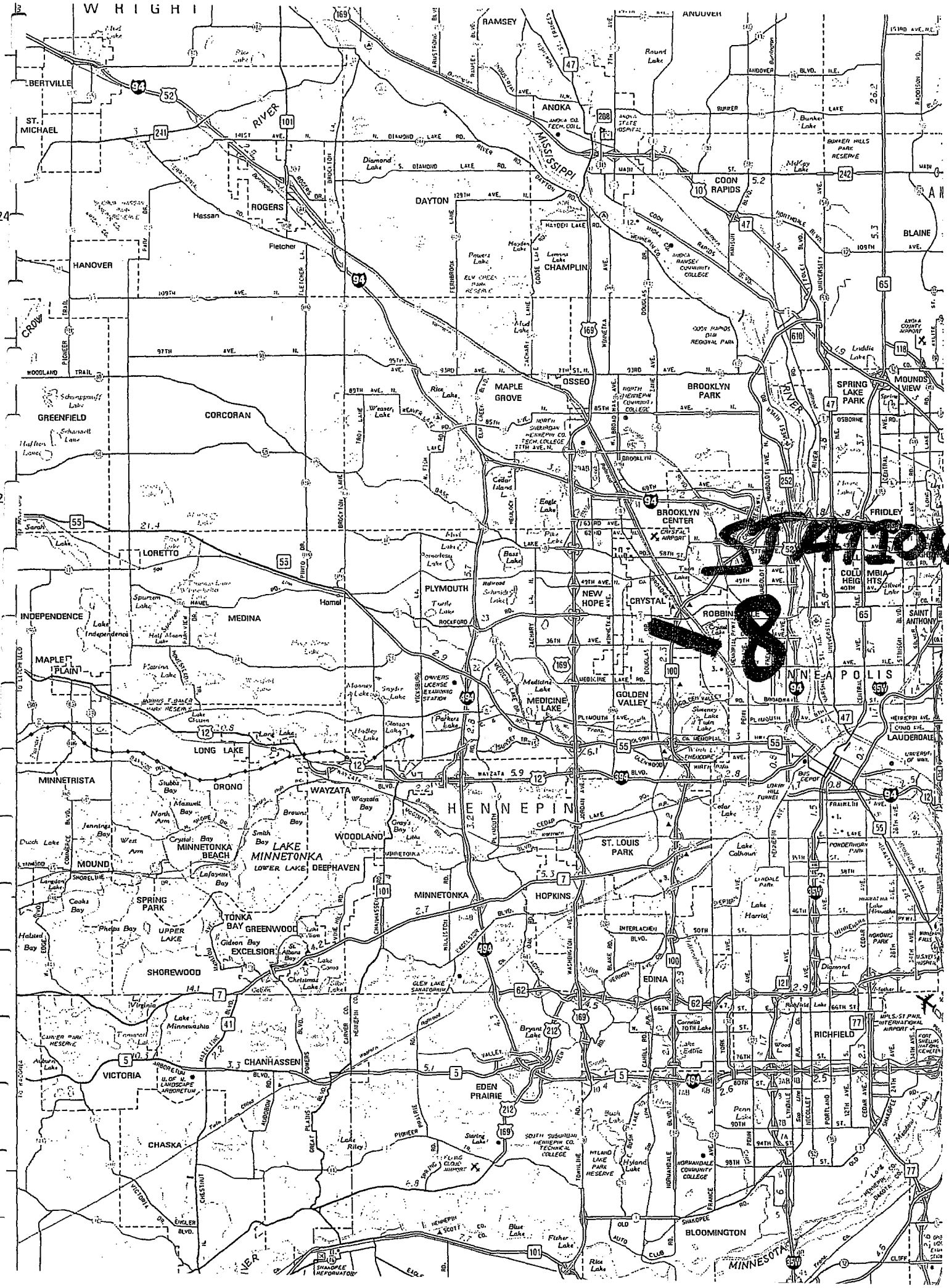
STATION	TYPE	ROAD	FACILITY	AREA
1	US	10/169	EXPRESSWAY	CORDON LINE
2	MN	101	EXPRESSWAY	CORDON LINE
3	I	94	FREEWAY	CORDON LINE
4	I	94	FREEWAY	OUTSIDE
5	US	169	FREEWAY	OUTSIDE
6	I	94/694	FREEWAY	RING
7	I	94/694	FREEWAY	RING
8	MN	100	EXPRESSWAY	INSIDE
9	US	169	FREEWAY	INSIDE
10	I	494	FREEWAY	RING
11	MN	55	EXPRESSWAY	OUTSIDE
12	MN	55	EXPRESSWAY	INSIDE
13	I	394	FREEWAY	INSIDE
14	US	169	FREEWAY	INSIDE
15	US	12	FREEWAY	OUTSIDE
16	I	494	FREEWAY	RING
17	MN	7	EXPRESSWAY	CORDON LINE
18	I	494	FREEWAY	RING
19	US	212	FREEWAY	INSIDE
20	MN	100	FREEWAY	INSIDE
21	MN	62	FREEWAY	INSIDE
22	MN	5	EXPRESSWAY	CORDON LINE
23	MN	5	EXPRESSWAY	OUTSIDE
24	US	212	EXPRESSWAY	OUTSIDE
25	I	494	FREEWAY	RING
26	US	169	EXPRESSWAY	OUTSIDE
27	US	212	EXPRESSWAY	CORDON LINE
28	US	169	EXPRESSWAY	CORDON LINE
29	I	35	FREEWAY	CORDON LINE
30	I	35W	FREEWAY	OUTSIDE
31	MN	77	FREEWAY	OUTSIDE
32	I	494	FREEWAY	RING
33	I	494	FREEWAY	RING
34	MN	77	FREEWAY	INSIDE
35	I	35W	FREEWAY	INSIDE
36	MN	55	EXPRESSWAY	INSIDE
38	I	94	FREEWAY	INSIDE
39	I	94	FREEWAY	INSIDE
40	I	94/694	FREEWAY	RING
41	I	694	FREEWAY	RING
42	I	694	FREEWAY	RING
43	I	35W	FREEWAY	OUTSIDE
44	US	10	EXPRESSWAY	OUTSIDE
45	MN	65	EXPRESSWAY	OUTSIDE
46	MN	252	EXPRESSWAY	OUTSIDE
47	US	10	FREEWAY	OUTSIDE
48	MN	65	EXPRESSWAY	CORDON LINE
49	I	35	FREEWAY	CORDON LINE
51	I	694	FREEWAY	RING
52	I	694	FREEWAY	RING
53	I	35E	FREEWAY	OUTSIDE
54	I	35E	FREEWAY	RING
55	I	35W	FREEWAY	INSIDE
56	MN	51	EXPRESSWAY	INSIDE
57	MN	36	EXPRESSWAY	INSIDE
58	I	35E	FREEWAY	INSIDE
59	MN	36	EXPRESSWAY	INSIDE
60	I	694	FREEWAY	RING
61	MN	36	EXPRESSWAY	CORDON LINE
62	I	94	FREEWAY	INSIDE
63	I	94	FREEWAY	CORDON LINE
64	I	494	FREEWAY	RING
65	US	10 & 61	EXPRESSWAY	INSIDE
66	US	52	FREEWAY	INSIDE
67	I	35E	FREEWAY	INSIDE
68	MN	55	EXPRESSWAY	INSIDE
69	I	494	FREEWAY	RING
70	I	35E	FREEWAY	OUTSIDE
71	MN	55	EXPRESSWAY	OUTSIDE
72	MN	110	FREEWAY	RING
74	US	52	FREEWAY	OUTSIDE
75	US	61	EXPRESSWAY	OUTSIDE
76	US	52	EXPRESSWAY	CORDON LINE
77	US	61	EXPRESSWAY	CORDON LINE
78	US	12	EXPRESSWAY	CORDON LINE
79	US	10	EXPRESSWAY	CORDON LINE
80	MN	47	EXPRESSWAY	OUTSIDE
81	US	61	EXPRESSWAY	OUTSIDE
82	US	52	EXPRESSWAY	INSIDE
84	MN	62	FREEWAY	INSIDE
85	MN	5	FREEWAY	INSIDE
86	MN	101	EXPRESSWAY	OUTSIDE
87	MN	13	EXPRESSWAY	OUTSIDE
88	MN	41	EXPRESSWAY	OUTSIDE
89	MN	55	EXPRESSWAY	INSIDE
90	MN	55	EXPRESSWAY	CORDON LINE

APPENDIX B

SAMPLE OF STATION LOCATION LAYOUT

STATION 8


CSAH 9
39th Ave.
39th Ave.
Unity Ave.
PARK
38th Ave.
Dead End Road
MN 100 SB
MN 100 NB
36th Ave.


RAMSEY
ANOKA
COON RAPIDS
BLAINE
ROGERS
DAYTON
HANOVER
CHAMPLIN
MAPLE GROVE
OSSEO
BROOKLYN PARK
SPRING LAKE PARK
MOUNDS VIEW
FRIDLEY
GREENFIELD
CORCORAN
BROOKLYN CENTER
LORETTO
PLYMOUTH
NEW HOPE
CRYSTAL
INDEPENDENCE
MEDINA
MAPLE PLAIN
MEDICINE LAKE
GOLDEN VALLEY
MINNEAPOLIS
LAUDERDALE
LONG LAKE
MINNETRISTA
ORONO
WAYZATA
HENNEPIN
WOODLAND
ST. LOUIS PARK
LAKE MINNETONKA
LOWER LAKE
DEEPHAVEN
MOUND
MINNETONKA
HOPKINS
SPRING PARK
TONKA BAY
GREENWOOD
EXCELSIOR
UPPER LAKE
SHOREWOOD
EDINA
RICHFIELD
CHANHASSEN
VICTORIA
EDEN PRAIRIE
CHASKA
BLOOMINGTON
MINNESOTA

APPENDIX C

FACTORS USED TO EXPAND 12- AND 16-HOUR COUNTS TO 24 HOURS

			1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	7	7	7	8	8	9	9	10	10	11	11	11
TIME	ADT %	LCV %	NB	SB	VOL	NB	SB	VOL	NB	SB	VOL	NB	SB	VOL	NB	SB	VOL	EB	VOL	EB	WB	VOL	SB	VOL	SB	VOL	NB	VOL	EB	WB	VOL
0:00	0.002250	0.005000	0	0	60	0	0	77	1	1	115	1	1	187	1	1	119	1	196	1	1	225	1	124	1	207	1	169	0	0	63
0:15	0.002250	0.005000	0	0	60	0	0	77	1	1	115	1	1	187	1	1	119	1	196	1	1	225	1	124	1	207	1	169	0	0	63
0:30	0.002250	0.005000	0	0	60	0	0	77	1	1	115	1	1	187	1	1	119	1	196	1	1	225	1	124	1	207	1	169	0	0	63
0:45	0.002250	0.005000	0	0	60	0	0	77	1	1	115	1	1	187	1	1	119	1	196	1	1	225	1	124	1	207	1	169	0	0	63
1:00	0.001500	0.005000	0	0	40	0	0	51	0	0	77	1	1	125	0	0	80	1	131	1	1	150	0	83	1	138	1	113	0	0	42
1:15	0.001500	0.005000	0	0	40	0	0	51	0	0	77	1	1	125	0	0	80	1	131	1	1	150	0	83	1	138	1	113	0	0	42
1:30	0.001500	0.005000	0	0	40	0	0	51	0	0	77	1	1	125	0	0	80	1	131	1	1	150	0	83	1	138	1	113	0	0	42
1:45	0.001500	0.005000	0	0	40	0	0	51	0	0	77	1	1	125	0	0	80	1	131	1	1	150	0	83	1	138	1	113	0	0	42
2:00	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
2:15	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
2:30	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
2:45	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
3:00	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
3:15	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
3:30	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
3:45	0.001000	0.005000	0	0	27	0	0	34	0	0	51	0	0	83	0	0	53	0	87	1	1	100	0	55	0	92	0	75	0	0	28
4:00	0.002000	0.040000	2	2	53	3	3	69	4	4	102	7	7	166	4	4	106	7	174	8	8	200	4	110	7	184	6	150	2	2	56
4:15	0.002000	0.040000	2	2	53	3	3	69	4	4	102	7	7	166	4	4	106	7	174	8	8	200	4	110	7	184	6	150	2	2	56
4:30	0.002000	0.040000	2	2	53	3	3	69	4	4	102	7	7	166	4	4	106	7	174	8	8	200	4	110	7	184	6	150	2	2	56
4:45	0.002000	0.040000	2	2	53	3	3	69	4	4	102	7	7	166	4	4	106	7	174	8	8	200	4	110	7	184	6	150	2	2	56
5:00	0.006750	0.040000	7	7	180	9	9	232	14	14	344	22	22	560	14	8	358	23	587	27	27	675	15	371	25	621	20	506	8	8	189
5:15	0.006750	0.040000	7	7	180	9	9	232	14	14	344	22	80	560	14	7	358	23	587	40	50	675	15	371	25	621	20	506	8	8	189
5:30	0.006750	0.040000	7	7	180	9	9	232	14	14	344	22	100	560	14	10	358	36	587	80	60	675	30	371	25	621	20	506	8	8	189
5:45	0.006750	0.040000	7	7	180	9	9	232	14	14	344	22	105	560	14	14	358	40	587	90	80	675	50	371	25	621	20	506	12	15	189
6:00	0.014500		19	24	387	5	28	497	15	77	740	34	125	1204	13	6	769	56	1262	106	93	1450	78	798	29	1334	22	1088	21	18	406
6:15	0.014500		18	13	387	15	36	497	10	62	740	38	140	1204	30	13	769	64	1262	111	112	1450	52	798	32	1334	23	1088	41	29	406
6:30	0.014500		25	21	387	13	58	497	13	75	740	47	128	1204	16	13	769	68	1262	136	108	1450	69	798	46	1334	23	1088	46	39	406
6:45	0.014500		19	18	387	24	35	497	26	51	740	49	65	1204	15	17	769	64	1262	139	89	1450	42	798	74	1334	40	1088	20	40	406
7:00	0.016000		11	23	427	16	44	549	32	44	816	42	76	1328	17	11	848	46	1392	95	78	1600	34	880	51	1472	20	1200	34	39	448
7:15	0.016000		22	19	427	16	24	549	17	37	816	12	60	1328	14	15	848	37	1392	102	78	1600	29	880	43	1472	48	1200	21	28	448
7:30	0.016000		22	16	427	11	28	549	29	25	816	39	40	1328	23	5	848	42	1392	91	95	1600	19	880	41	1472	37	1200	26	28	448
7:45	0.016000		24	9	427	15	35	549	20	25	816	48	91	1328	8	13	848	47	1392	73	78	1600	30	880	41	1472	38	1200	8	16	448
8:00	0.015000		28	26	401	22	23	515	30	26	765	34	66	1245	10	14	795	41	1305	108	99	1500	44	825	40	1380	41	1125	17	11	420
8:15	0.015000		34	19	401	15	26	515	14	33	765	34	74	1245	7	15	795	58	1305	113	94	1500	44	825	53	1380	54	1125	22	23	420
8:30	0.015000		23	19	401	20	23	515	17	67	765	45	81	1245	3	9	795	37	1305	108	120	1500	50	825	53	1380	49	1125	30	36	420
8:45	0.015000		32	22	401	18	24	515	31	77	765	50	115	1245	12	8	795	36	1305	92	94	1500	34	825	41	1380	46	1125	21	46	420
9:00	0.013000		13	17	347	21	22	446	26	31	663	45	74	1079	14	7	689	44	1131	78	71	1300	31	715	54	1196	50	975	35	37	364
9:15	0.013000		19	16	347	31	27	446	24	37	663	42	64	1079	12	5	689	55	1131	89	90	1300	49	715	66	1196	40	975	33	36	364
9:30	0.013000		16	11	347	18	34	446	16	36	663	51	51	1079	10	9	689	33	1131	103	60	1300	43	715	43	1196	51	975	37	20	364
9:45	0.013000		11	15	347	30	28	446	19	22	663	43	38	1079	14	10	689	29	1131	86	65	1300	33	715	34	1196	42	975	19	43	364
10:00	0.012750		24	7	340	37	26	437	16	27	650	59	57	1058	15	4	676	34	1109	69	96	1275	46	701	49	1173	45	956	21	27	357
10:15	0.012750		19	2	340	22	14	437	14	35	650	23	45	1058	11	9	676	28	1109	102	95	1275	28	701	49	1173	37	956	19	24	357
10:30	0.012750		18	4	340	28	13	437	25	29	650	40	59	1058	23	6	676	29	1109	79	81	1275	37	701	61	1173	26	956	28	8	357
10:45	0.012750		16	25	340	17	17	437	30	20	650	55	103	1058	21	18	676	27	1109	89	88	1275	39	701	52	1173	40	956	13	23	357
11:00	0.013750		10	33	367	17	15	472	27	33	701	35	72	1141	19	16	729	38	1196	81	79	1375	27	756	40	1265	34	1031	9	33	385
11:15	0.013750		53	33	367	25	13	472	16	33	701	53	59	1141	19	14	729	43	1196	83	80	1375	35	756	38	1265	46	1031	23	25	385
11:30	0.013750		11	5	367	22	15	472	19	29	701	37	54	1141	26	15	729	35	1196	68	80	1375	38	756	38	1265	49	1031	10	33	385
11:45	0.013750		11	8	367	23	15	472	11	24	701	24	26	1141	20	13	729	28	1196	71	70	1375	30	756	22	1265	42	1031	37	43	385
12:00	0.014250		12	15	380	29	17	489	17	23	727	39	57	1183	19	19	755	37	1240	71	66	1425	27	784	29	1311	35	1069	18	22	399
12:15	0.014250		18	21	380	40	17	489	15	22	727	40	48	1183	23	15	755	27	1240	90	79	1425	25	784	37	1311	41	1069	14	11	399
12:30	0.014250		21	14	380	20	18	489	8	16	727	42	52	1183	21	11	755	36	1240	100	78	1425	47	784	46	1311	46	1069	21	8	399
12:45	0.014250		25	6	380	19	19	489	19	22	727	55	45	1183	17	13	755	42	1240	147	77	1425	24	784	38	1311	48	1069	18	21	399
13:00	0.014500		18	7	387	22	15	497	10	23	740	35	50	1204	23	10	769	30	1262	92	84	1450	33	798	42	1334	44	1088	19	12	406
13:15	0.014500		14	12	387	15	11	497	20	22	740	37	49	1204	4	22	769	38	1262	83	81	1450	36	798	48	1334	52	1088	24	19	406
13:30	0.014500		6	11	387	24	19	497	29	30	740	40	42	1204	23	12	769	37	1262	114	86	1450	41	798	43	1334	40	1088	18	14	406
13:45	0.014500		33	28	387	25	21	497	20	23	740	41	54	1204	17	21	769	56	1262	99	74	1450	41	798	61	1334	56	1088	29	13	406
14:00	0.015750		13	19	421	21	19	540	19	29	803	15	37	1307	25	21	835	60	1370	62	59	1575	48	866	38	1449	50	1181	23	24	441
14:15	0.015750		15	17	421	7	15	540	32	23	803	15	38	1307	31	28	835	69	1370	47	63	1575	28	866	53	1449	48	1181	19	17	441
14:30	0.015750		19	21	421	12	19	540	18	20	803	24	37	1307	34	36	835	56	1370	55	58	1575	30	866	48	1449	57	1181	29	22	441
14:45	0.015750		37	11	421	27	13	540	20	26	803	16	35	1307	32	35	835	70	1370	68	49	1575	38	866	50	1449	60	1181	22	11	441
15:00	0.017250		26	16	461	22	15	592	25	21	880	37	40	1432	34	25	914	58	1501	65	49	1725	22	949	44	1587	62	1294	10	40	483
15:15	0.017250		25	23	461	41	15	592	22	25	880	11	32	1432	21	31	914	59	1501	72	44	1725	25	949	59	1587	59	1294	21	15	483
15:30	0.017250		29	28	461	28	7	592	34	24	880	31	39	1432	49	35	914	62	1501	76	60	1725	31	949	51	1587	70	1294	23	14	483
15:45	0.017250		25	25	461	34	10	592	30	24	880	13	33	1432	20	13	914	52	1501	65	57	1725	24	949	38	1587	70	1294	18	11	483
16:00	0.017500		20	14	467	39	6	600	28	15	893	32	35	1453	30	26	928	51	1523	67	56	1750	39	963	21	1610	79	1313	20	21	490
16:15	0.017500		19	23	467	30	8	600	59	26	893	25	24	1453	30	21	928	41	1523	59	53	1750	22	963	34	1610	55	1313	18	14	490
16:30	0.017500		11	18	467	28	6	600	27	11	893	39	36	1453	19	21	928	47	1523	63	51	1750	15	963	36	1610	53	1313	9	11	490
16:45	0.017500	0.020000	21	13	467	23	6	600	28	18	893	54	36	1453	19	20	928	46	1523	55	57	1750	12	963	28	1610	36	1313	20	24	490
17:00	0.016250	0.020000	27	16	434	26	8	557	39	15	829	79	24	1349	24	15	861	40	1414	53	52	1625	38	894	35	1495	18	1219	13	6	455
17:15	0.016250	0.020000	19	11	434	29	4	557	60	24	829	36	23	1349	18	21	861	34	1414	51	51	1625	36	894	18	1495	55	1219	15	20	455
17:30	0.016250	0.020000	19	15	434	30	9	557	54	5	829	20	24	1349	12	20	861	38	1414	56	47	1625	30	894	14	1495	31	1219	18	12	455
17:45	0.016250	0.020000	14	8	434	18	6	557	56	28	829	40	23	1349	14	8	861	45	1414	38	48	1625	26	894	20	1495	48	1219	6	9	455
18:00	0.014250	0.020000	14	9	380	28	3	489	21	12	727	25	21	1183	18	14	755	38	1240	30	38	1425	16	784	26	1311	21	1069	8	8	399
18:15	0.014250	0.020000	10	6	380	8	5	489	23	11	727	18	18	1183	24	11	755	40	1240	27	40	1425	16	784	26	1311	21	1069	8	8	399
18:30	0.014250	0.020000	11	9	380	12	6	489	17	12	727	12	15	1183	20	22	755	33	1240	17	23	1425	16	784	26	1311	21	1069	8	8	399
18:45	0.014250	0.020000	9	11	380	8	2	489	17	8	727	27	9	1183	12	21	755	41	1240	16	22	1425	16	784	26	1311	21	1069	8	8	399
19:00	0.011250	0.020000	10	9	300	5	4	386	20	9	574	38	13	934	12	10	596	27	979	16	18	1125	12	619	21	1035	17	844	6	6	315
19:15	0.011250	0.020000	10	7	300	2	4	386	19	11	574	18	11	934	9	11	596	19	979	24	9	1125	12	619	21	1035	17	844	6	6	315
19:30	0.011250	0.020000	7	9	300	8	2	386	13	10	574	16	18	934	8	6	596	19	979	12	16	1125	12	619	21	1035	17	844	6	6	315
19:45	0.011250	0.020000	16	4	300	7	2	386	15	14	574	13	14	934	7	11	596	23	979	12	7	1125	12	619	21	1035	17	844	6	6	315
20:00	0.009750	0.020000	9	4	260	10	5	334	9	11	497	13	5	809	11	4	517	13	848	16	15	975	11	536	18	897	15	731	5	5	273
20:15	0.009750	0.020000	3	5	260	7	7	334	6	11	497	4	5	809	10	9	517	5	848	17	11	975	11	536	18	897	15	731	5	5	273
20:30	0.009750	0.020000	5	5	260	6	1	334	11	6	497	5	8	809	7	8	517	13	848	8	8	975	11	536	18	897	15	731	5	5	273
20:45	0.009750	0.020000	12	9	260	9	2	334	6	5	497	6	6	809	5	9	517	13	848	9	7	975	11	536	18	897	15	731	5	5	273
21:00	0.009000	0.020000	2	3	240	13	3	309	1	9	459	3	6	747	8	5	477	9	783	6	5	900	10	495	17	828	14	675	5	5	252
21:15	0.009000	0.020000	5	5	240	4	1	309	4	3	459	1	4	747	7	7	477	8	783	6	9	900	10	495	17	828	14	675	5	5	252
21:30	0.009000	0.020000	5	5	240	6	6	309	9	9	459	0	3	747	7	4	477	16	783	6	9	900	10	495	17	828	14	675	5	5	252
21:45	0.009000	0.020000	5	5	240	6	6	309	9	9	459	15	15	747	3	5	477	16	783	4	5	900	10	495	17	828	14	675	5	5	252
22:00	0.006750	0.020000	4	4	180	5	5	232	7	7	344	11	11	560	7	7	358	12	587	14	14	675	7	371	12	621	10	506	4	4	189
22:15	0.006750	0.020000	4	4	180	5	5	232	7	7	344	11	11	560	7	7	358	12	587	14	14	675	7	371	12	621	10	506	4	4	189
22:30	0.006750	0.020000	4	4	180	5	5	232	7	7	344	11	11	560	7	7	358	12	587	14	14	675	7	371	12	621	10	506	4	4	189
22:45	0.006750	0.020000	4	4	180	5	5	232	7	7	344	11	11	560	7	7	358	12	587	14	14	675	7	371	12	621	10	506	4	4	189
23:00	0.004250	0.020000	2	2	113	3	3	146	4	4	217	7	7	353	5	5	225	7	370	9	9	425	5	234	8	391	6	319	2	2	119
23:15	0.004250	0.020000	2	2	113	3	3	146	4	4	217	7	7	353	5	5	225	7	370	9	9	425	5	234	8	391	6	319	2	2	119
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23:45	0.004250	0.020000	2	2	113	3	3	146	4	4	217	7	7	353	5	5	225	7	370	9	9	425	5	234	8	391	6	319	2	2	119
TOTAL			1180	965	26700	1311	1067	34300	1509	1743	51000	2208	3261	83000	1226	1030	53000	2720	87000	4615	4159	100000	2076	55000	2567	92000	2599	75000	1207	1270	28000

TIME	ADT %	LCV %	12 EB	12 WB	12 VOL	13 EB	13 VOL	14 SB	14 VOL	15 EB	15 WB	15 VOL	16 SB	16 VOL	17 EB	17 WB	17 VOL	18 NB	18 SB	18 VOL	19 NB	19 VOL	20	20 VOL	21 EB	21 WB	21 VOL	22	22	22 VOL
0:00	0.002250	0.005000	0	0	77	2	322	1	205	1	1	164	1	214	1	1	109	1	1	182	1	119	1	250	1	1	214	0	0	63
0:15	0.002250	0.005000	0	0	77	2	322	1	205	1	1	164	1	214	1	1	109	1	1	182	1	119	1	250	1	1	214	0	0	63
0:30	0.002250	0.005000	0	0	77	2	322	1	205	1	1	164	1	214	1	1	109	1	1	182	1	119	1	250	1	1	214	0	0	63
0:45	0.002250	0.005000	0	0	77	2	322	1	205	1	1	164	1	214	1	1	109	1	1	182	1	119	1	250	1	1	214	0	0	63
1:00	0.001500	0.005000	0	0	51	1	215	1	137	1	1	110	1	143	0	0	73	1	1	122	0	80	1	167	1	1	143	0	0	42
1:15	0.001500	0.005000	0	0	51	1	215	1	137	1	1	110	1	143	0	0	73	1	1	122	0	80	1	167	1	1	143	0	0	42
1:30	0.001500	0.005000	0	0	51	1	215	1	137	1	1	110	1	143	0	0	73	1	1	122	0	80	1	167	1	1	143	0	0	42
1:45	0.001500	0.005000	0	0	51	1	215	1	137	1	1	110	1	143	0	0	73	1	1	122	0	80	1	167	1	1	143	0	0	42
2:00	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
2:15	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
2:30	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
2:45	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
3:00	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
3:15	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
3:30	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
3:45	0.001000	0.005000	0	0	34	1	143	0	91	0	0	73	0	95	0	0	49	0	0	81	0	53	1	111	0	0	95	0	0	28
4:00	0.002000	0.040000	3	3	68	11	286	7	182	6	6	146	8	190	4	4	97	6	6	162	4	106	9	222	8	8	190	2	2	56
4:15	0.002000	0.040000	3	3	68	11	286	7	182	6	6	146	8	190	4	4	97	6	6	162	4	106	9	222	8	8	190	2	2	56
4:30	0.002000	0.040000	3	3	68	11	286	7	182	6	6	146	8	190	4	4	97	6	6	162	4	106	9	222	8	8	190	2	2	56
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5:00	0.006750	0.040000	9	9	230	20	965	25	614	20	20	493	26	641	13	13	327	12	15	547	14	358	12	749	11	15	641	8	8	189
5:15	0.006750	0.040000	9	4	230	22	965	25	614	20	20	493	26	641	13	13	327	22	22	547	14	358	11	749	15	15	641	8	8	189
5:30	0.006750	0.040000	6	9	230	25	965	25	614	20	20	493	26	641	13	13	327	22	22	547	14	358	15	749	12	14	641	8	8	189
5:45	0.006750	0.040000	5	5	230	26	965	25	614	20	20	493	26	641	13	13	327	22	22	547	14	358	20	749	20	26	641	8	8	189
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9:15	0.013000		24	27	442	49	1859	61	1183	38	33	949	101	1235	33	47	631	49	39	1053	27	689	60	1443	61	73	1235	22	17	364
9:30	0.013000		45	24	442	59	1859	68	1183	42	54	949	87	1235	34	41	631	49	43	1053	23	689	64	1443	54	46	1235	18	15	364
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11:00	0.013750		17	20	468	61	1966	47	1251	34	29	1004	61	1306	31	33	667	46	33	1114	27	729	53	1528	53	44	1306	16	22	385
11:15	0.013750		36	30	468	61	1966	53	1251	38	42	1004	58	1306	36	34	667	53	40	1114	31	729	47	1528	41	39	1306	11	16	385
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11:45	0.013750		27	20	468	80	1966	58	1251	31	26	1004	53	1306	33	51	667	41	33	1114	34	729	36	1528	58	54	1306	19	17	385
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16:30	0.017500		22	24	595	16	2503	20	1593	19	17	1278	47	1663	35	30	849	47	30	1418	17	928	51	1943	21	39	1663	3	17	490
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19:00	0.011250	0.020000	8	8	383	22	1609	20	1024	16	16	821	21	1069	11	17	546	18	15	911	5	596	16	1249	10	10	1069	3	3	315
19:15	0.011250	0.020000	8	8	383	15	1609	20	1024	16	16	821	21	1069	10	15	546	21	21	911	5	596	7	1249	6	5	1069	4	5	315
19:30	0.011250	0.020000	8	8	383	16	1609	20	1024	16	16	821	21	1069	10	6	546	24	12	911	6	596	11	1249	5	9	1069	3	1	315
19:45	0.011250	0.020000	8	8	383	12	1609	20	1024	16	16	821	21	1069	7	16	546	17	17	911	6	596	9	1249	8	13	1069	2	4	315
20:00	0.009750	0.020000	7	7	332	15	1394	18	887	14	14	712	19	926	6	11	473	16	10	790	8	517	15	1082	5	7	926	1	1	273
20:15	0.009750	0.020000	7	7	332	11	1394	18	887	14	14	712	19	926	10	6	473	13	15	790	6	517	12	1082	3	8	926	0	2	273
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20:45	0.009750	0.020000	7	7	332	8	1394	18	887	14	14	712	19	926	6	8	473	16	16	790	4	517	11	1082	4	4	926	2	1	273
21:00	0.009000	0.020000	6	6	306	9	1287	16	819	13	13	657	17	855	4	4	437	15	15	729	1	477	20	999	4	4	855	1	1	252
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21:30	0.009000	0.020000	6	6	306	5	1287	16	819	13	13	657	17	855	5	5	437	15	15	729	5	477	20	999	2	2	855	0	0	252
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22:00	0.006750	0.020000	5	5	230	6	965	12	614	10	10	493	13	641	7	7	327	11	11	547	7	358	15	749	1	1	641	0	0	189
22:15	0.006750	0.020000	5	5	230	15	965	12	614	10	10	493	13	641	7	7	327	11	11	547	7	358	15	749	1	1	641	0	0	189
22:30	0.006750	0.020000	5	5	230	15	965	12	614	10	10	493	13	641	7	7	327	11	11	547	7	358	15	749	2	2	641	0	0	189
22:45	0.006750	0.020000	5	5	230	11	965	12	614	10	10	493	13	641	7	7	327	11	11	547	7	358	15	749	5	5	641	0	0	189
23:00	0.004250	0.020000	3	3	145	11	608	8	387	6	6	310	8	404	4	4	206	7	7	344	5	225	9	472	8	0	404	0	0	119
23:15	0.004250	0.020000	3	3	145	9	608	8	387	6	6	310	8	404	4	4	206	7	7	344	5	225	9	472	6	6	404	0	0	119
23:30	0.004250	0.020000	3	3	145	8	608	8	387	6	6	310	8	404	4	4	206	7	7	344	5	225	9	472	1	1	404	0	0	119
23:45	0.004250	0.020000	3	3	145	7	608	8	387	6	6	310	8	404	4	4	206	7	7	344	5	225	9	472	2	2	404	0	0	119
TOTAL			1348	1304	34000	2634	143000	2575	91000	1975	1942	73000	3271	95000	1781	1846	48500	3017	2311	81000	1487	53000	2640	111000	2141	2075	95000	818	782	28000

TIME	ADT %	LCV %	23	23	24	24	25	25	26	26	26	27	27	27	28	28	28	29	29	29	30	30	31	31	32	32	32	33	33	33
				VOL		VOL		VOL	NB	SB	VOL	EB	WB	VOL	NB	SB	VOL	NB	SB	VOL		VOL	NB	VOL	EB	WB	VOL	EB	WB	VOL
0:00	0.002250	0.005000	1	101	0	56	1	277	0	0	95	0	0	34	0	0	63	1	1	180	1	234	1	218	2	2	358	2	2	308
0:15	0.002250	0.005000	1	101	0	56	1	277	0	0	95	0	0	34	0	0	63	1	1	180	1	234	1	218	2	2	358	2	2	308
0:30	0.002250	0.005000	1	101	0	56	1	277	0	0	95	0	0	34	0	0	63	1	1	180	1	234	1	218	2	2	358	2	2	308
0:45	0.002250	0.005000	1	101	0	56	1	277	0	0	95	0	0	34	0	0	63	1	1	180	1	234	1	218	2	2	358	2	2	308
1:00	0.001500	0.005000	0	68	0	38	1	185	0	0	63	0	0	23	0	0	42	1	1	120	1	156	1	146	1	1	239	1	1	206
1:15	0.001500	0.005000	0	68	0	38	1	185	0	0	63	0	0	23	0	0	42	1	1	120	1	156	1	146	1	1	239	1	1	206
1:30	0.001500	0.005000	0	68	0	38	1	185	0	0	63	0	0	23	0	0	42	1	1	120	1	156	1	146	1	1	239	1	1	206
1:45	0.001500	0.005000	0	68	0	38	1	185	0	0	63	0	0	23	0	0	42	1	1	120	1	156	1	146	1	1	239	1	1	206
2:00	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
2:15	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
2:30	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
2:45	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
3:00	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
3:15	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
3:30	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
3:45	0.001000	0.005000	0	45	0	25	1	123	0	0	42	0	0	15	0	0	28	0	0	80	1	104	0	97	1	1	159	1	1	137
4:00	0.002000	0.040000	4	90	2	50	10	246	3	3	84	1	1	30	2	2	56	6	6	160	8	208	8	194	13	13	318	11	11	274
4:15	0.002000	0.040000	4	90	2	50	10	246	3	3	84	1	1	30	2	2	56	6	6	160	8	208	8	194	13	13	318	11	11	274
4:30	0.002000	0.040000	4	90	2	50	10	246	3	3	84	1	1	30	2	2	56	6	6	160	8	208	8	194	13	13	318	11	11	274
4:45	0.002000	0.040000	4	90	2	50	10	246	3	3	84	1	1	30	2	2	56	6	6	160	8	208	8	194	13	13	318	11	11	274
5:00	0.006750	0.040000	12	304	7	169	33	830	11	11	284	4	4	101	8	8	189	22	22	540	28	702	26	655	43	43	1073	37	37	925
5:15	0.006750	0.040000	12	304	7	169	33	830	11	11	284	4	3	101	5	8	189	22	22	540	28	702	26	655	43	43	1073	37	37	925
5:30	0.006750	0.040000	12	304	7	169	33	830	11	11	284	4	1	101	3	5	189	22	22	540	28	702	26	655	43	43	1073	37	37	925
5:45	0.006750	0.040000	12	304	7	169	33	830	11	11	284	7	2	101	8	6	189	22	22	540	28	702	26	655	43	43	1073	37	37	925
6:00	0.014500		8	653	16	363	67	1784	6	2	609	11	1	218	4	3	406	34	11	1160	27	1508	27	1407	74	57	2306	42	19	1987
6:15	0.014500		18	653	21	363	75	1784	25	4	609	4	3	218	13	7	406	45	34	1160	40	1508	32	1407	80	80	2306	22	18	1987
6:30	0.014500		20	653	17	363	75	1784	21	6	609	14	3	218	18	9	406	51	24	1160	51	1508	48	1407	85	90	2306	42	19	1987
6:45	0.014500		21	653	12	363	51	1784	33	16	609	10	8	218	16	14	406	48	32	1160	38	1508	52	1407	88	74	2306	39	21	1987
7:00	0.016000		18	720	6	400	53	1968	11	33	672	9	8	240	12	14	448	47	32	1280	47	1664	40	1552	75	65	2544	40	20	2192
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9:00	0.013000		29	585	10	325	94	1599	21	27	546	19	19	195	17	21	364	46	42	1040	69	1352	48	1261	78	87	2067	59	65	1781
9:15	0.013000		32	585	14	325	98	1599	19	20	546	4	10	195	12	17	364	43	34	1040	73	1352	42	1261	107	80	2067	39	32	1781
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10:00	0.012750		26	574	12	319	91	1568	14	34	536	9	3	191	14	17	357	31	29	1020	76	1326	48	1237	99	138	2027	37	36	1747
10:15	0.012750		39	574	7	319	77	1568	28	17	536	21	3	191	9	14	357	40	45	1020	42	1326	31	1237	92	75	2027	26	28	1747
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10:45	0.012750		31	574	5	319	47	1568	23	6	536	8	10	191	22	16	357	40	49	1020	42	1326	27	1237	130	109	2027	39	22	1747
11:00	0.013750		61	619	16	344	104	1691	10	5	578	3	5	206	23	18	385	49	23	1100	70	1430	28	1334	104	152	2186	37	42	1884
11:15	0.013750		56	619	13	344	87	1691	8	10	578	7	5	206	18	16	385	31	31	1100	58	1430	35	1334	110	134	2186	32	31	1884
11:30	0.013750		34	619	16	344	97	1691	31	15	578	5	11	206	17	16	385	28	30	1100	49	1430	33	1334	119	110	2186	53	47	1884
11:45	0.013750		33	619	19	344	68	1691	25	6	578	19	19	206	17	18	385	35	26	1100	72	1430	37	1334	93	84	2186	68	65	1884
12:00	0.014250		32	641	18	356	107	1753	17	8	599	7	5	214	11	17	399	26	26	1140	89	1482	38	1382	123	86	2268	66	70	1952
12:15	0.014250		30	641	15	356	58	1753	22	20	599	5	5	214	4	11	399	27	34	1140	92	1482	42	1382	99	64	2268	71	56	1952
12:30	0.014250		30	641	12	356	54	1753	26	8	599	26	20	214	10	10	399	44	35	1140	94	1482	45	1382	106	82	2268	68	65	1952
12:45	0.014250		29	641	10	356	75	1753	12	10	599	34	23	214	6	10	399	35	31	1140	97	1482	33	1382	87	52	2268	55	85	1952
13:00	0.014500		38	653	20	363	78	1784	20	23	609	12	22	218	10	10	406	15	26	1160	79	1508	39	1407	68	55	2306	55	59	1987
13:15	0.014500		42	653	7	363	70	1784	26	20	609	26	19	218	12	8	406	19	32	1160	96	1508	35	1407	85	64	2306	58	61	1987
13:30	0.014500		33	653	16	363	80	1784	31	13	609	12	12	218	12	12	406	18	24	1160	102	1508	38	1407	95	89	2306	60	86	1987
13:45	0.014500		28	653	20	363	97	1784	36	12	609	20	14	218	6	15	406	8	25	1160	87	1508	43	1407	109	102	2306	73	64	1987
14:00	0.015750		32	709	15	394	98	1937	28	11	662	12	12	236	21	11	441	24	25	1260	68	1638	48	1528	122	84	2504	54	70	2158
14:15	0.015750		35	709	20	394	108	1937	27	26	662	11	12	236	13	19	441	20	31	1260	85	1638	36	1528	86	76	2504	48	56	2158
14:30	0.015750		39	709	16	394	58	1937	26	24	662	21	10	236	11	12	441	10	36	1260	76	1638	36	1528	95	94	2504	76	86	2158
14:45	0.015750		39	709	15	394	54	1937	11	26	662	17	17	236	21	13	441	8	28	1260	74	1638	42	1528	78	72	2504	70	82	2158
15:00	0.017250		31	776	18	431	75	2122	18	33	725	10	10	259	16	11	483	18	37	1380	78	1794	31	1673	92	55	2743	51	58	2363
15:15	0.017250		20	776	17	431	78	2122	17	32	725	15	8	259	23	13	483	13	34	1380	58	1794	37	1673	94	91	2743	66	57	2363
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16:00	0.017500		30	788	9	438	97	2153	14	25	735	10	19	263	16	15	490	22	28	1400	65	1820	25	1698	87	70	2783	48	62	2398
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16:30	0.017500		17	788	9	438	106	2153	8	24	735	17	13	263	13	15	490	20	41	1400	68	1820	30	1698	58	57	2783	51	71	2398
16:45	0.017500	0.020000	18	788	6	438	58	2153	11	22	735	18	15	263	5	12	490	14	45	1400	71	1820	27	1698	40	58	2783	40	44	2398
17:00	0.016250	0.020000	15	731	5	406	54	1999	14	23	683	28	4	244	11	6	455	19	35	1300	45	1690	24	1576	52	44	2584	32	47	2226
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17:45	0.016250	0.020000	16	731	13	406	70	1999	10	17	683	10	2	244	6	10	455	21	23	1300	49	1690	11	1576	47	32	2584	29	35	2226
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18:30	0.014250	0.020000	13	641	6	356	35	1753	9	14	599	4	4	214	8	8	399	23	23	1140	30	1482	19	1382	45	45	2266	39	39	1952
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19:00	0.011250	0.020000	10	506	4	281	28	1384	5	10	473	3	3	169	6	6	315	18	18	900	23	1170	17	1091	36	36	1789	31	31	1541
19:15	0.011250	0.020000	10	506	8	281	28	1384	7	7	473	3	3	169	6	6	315	18	18	900	23	1170	15	1091	36	36	1789	31	31	1541
19:30	0.011250	0.020000	10	506	4	281	28	1384	6	8	473	3	3	169	6	6	315	18	18	900	23	1170	14	1091	36	36	1789	31	31	1541
19:45	0.011250	0.020000	10	506	3	281	28	1384	4	8	473	3	3	169	6	6	315	18	18	900	23	1170	19	1091	36	36	1789	31	31	1541
20:00	0.009750	0.020000	9	439	1	244	24	1199	4	6	410	3	3	146	5	5	273	16	16	780	20	1014	19	946	31	31	1550	27	27	1336
20:15	0.009750	0.020000	9	439	2	244	24	1199	5	6	410	3	3	146	5	5	273	16	16	780	20	1014	19	946	31	31	1550	27	27	1336
20:30	0.009750	0.020000	9	439	8	244	24	1199	1	4	410	3	3	146	5	5	273	16	16	780	20	1014	19	946	31	31	1550	27	27	1336
20:45	0.009750	0.020000	9	439	0	244	24	1199	3	2	410	3	3	146	5	5	273	16	16	780	20	1014	19	946	31	31	1550	27	27	1336
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TIME	ADT %	LCV %	34 NB	34 VOL	35 NB	35 VOL	36 NB	36 SB	36 VOL	38 EB	38 WB	38 VOL	39	39 VOL	40 WB	40 VOL	41 WB	41 VOL	42 WB	42 VOL	43 SB	43 VOL	44 NB	44 SB	44 VOL	45 NB	45 SB	45 VOL	46 NB	46 VOL
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TIME	ADT %	LCV %	47 NB	47 SB	47 VOL	48 NB	48 SB	48 VOL	49 NB	49 SB	49 VOL	51 EB	51 WB	51 VOL	52 EB	52 WB	52 VOL	53 NB	53 SB	53 VOL	54 EB	54 WB	54 VOL	55 NB	55 SB	55 VOL	56 SB	56 VOL	57 EB	57 WB	57 VOL
0:00	0.002250	0.005000	1	1	153	0	0	79	1	1	146	1	1	248	1	1	214	1	1	155	1	1	257	1	1	250	0	92	1	1	198
0:15	0.002250	0.005000	1	1	153	0	0	79	1	1	146	1	1	248	1	1	214	1	1	155	1	1	257	1	1	250	0	92	1	1	198
0:30	0.002250	0.005000	1	1	153	0	0	79	1	1	146	1	1	248	1	1	214	1	1	155	1	1	257	1	1	250	0	92	1	1	198
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TIME	ADT %	LCV %	58	58	59	59	59	60	60	61	61	61	62	62	63	63	63	64	64	64	65	65	65	66	66	67	67	68	68	69	69
				VOL	EB	WB	VOL	NB	VOL	EB	WB	VOL	WB	VOL	EB	WB	VOL	NB	SB	VOL	NB	SB	VOL	NB	VOL	SB	VOL	EB	VOL	WB	VOL
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7:15	0.016000		82	2016	31	43	512	39	1056	25	13	672	35	1712	17	103	976	29	16	1040	13	12	504	38	864	21	1104	43	352	52	1504
7:30	0.016000		86	2016	28	21	512	47	1056	20	24	672	27	1712	19	81	976	37	87	1040	9	11	504	35	864	30	1104	31	352	69	1504
7:45	0.016000		85	2016	34	24	512	43	1056	28	25	672	28	1712	12	39	976	38	71	1040	19	7	504	18	864	29	1104	34	352	40	1504
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17:00	0.016250	0.020000	44	2048	13	12	520	21	1073	11	20	683	31	1739	21	18	991	28	29	1056	12	16	512	17	878	24	1121	17	358	34	1528
17:15	0.016250	0.020000	42	2048	6	10	520	21	1073	14	14	683	28	1739	22	9	991	21	23	1056	9	15	512	21	878	19	1121	17	358	19	1528
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18:15	0.014250	0.020000	36	1796	9	9	456	19	941	12	12	599	30	1525	17	17	869	19	19	926	9	9	449	15	770	20	983	13	314	27	1340
18:30	0.014250	0.020000	36	1796	9	9	456	19	941	12	12	599	30	1525	17	17	869	19	19	926	9	9	449	15	770	20	983	10	314	27	1340
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19:15	0.011250	0.020000	28	1418	7	7	360	15	743	9	9	473	24	1204	14	14	686	15	15	731	7	7	354	12	608	16	776	2	248	21	1058
19:30	0.011250	0.020000	28	1418	7	7	360	15	743	9	9	473	24	1204	14	14	686	15	15	731	7	7	354	12	608	16	776	8	248	21	1058
19:45	0.011250	0.020000	28	1418	7	7	360	15	743	9	9	473	24	1204	14	14	686	15	15	731	7	7	354	12	608	16	776	4	248	21	1058
20:00	0.009750	0.020000	25	1229	6	6	312	13	644	8	8	410	21	1043	12	12	595	13	13	634	6	6	307	11	527	13	673	1	215	18	917
20:15	0.009750	0.020000	25	1229	6	6	312	13	644	8	8	410	21	1043	12	12	595	13	13	634	6	6	307	11	527	13	673	4	215	18	917
20:30	0.009750	0.020000	25	1229	6	6	312	13	644	8	8	410	21	1043	12	12	595	13	13	634	6	6	307	11	527	13	673	3	215	18	917
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21:15	0.009000	0.020000	23	1134	6	6	288	12	594	8	8	378	19	963	11	11	549	12	12	585	6	6	284	10	486	12	621	4	198	17	846
21:30	0.009000	0.020000	23	1134	6	6	288	12	594	8	8	378	19	963	11	11	549	12	12	585	6	6	284	10	486	12	621	4	198	17	846
21:45	0.009000	0.020000	23	1134	6	6	288	12	594	8	8	378	19	963	11	11	549	12	12	585	6	6	284	10	486	12	621	4	198	17	846
22:00	0.006750	0.020000	17	851	4	4	216	9	446	6	6	284	14	722	8	8	412	9	9	439	4	4	213	7	365	9	466	3	149	13	635
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22:45	0.006750	0.020000	17	851	4	4	216	9	446	6	6	284	14	722	8	8	412	9	9	439	4	4	213	7	365	9	466	3	149	13	635
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23:15	0.004250	0.020000	11	536	3	3	136	6	281	4	4	179	9	455	5	5	259	6	6	276	3	3	134	5	230	6	293	2	94	8	400
23:30	0.004250	0.020000	11	536	3	3	136	6	281	4	4	179	9	455	5	5	259	6	6	276	3	3	134	5	230	6	293	2	94	8	400
23:45	0.004250	0.020000	11	536	3	3	136	6	281	4	4	179	9	455	5	5	259	6	6	276	3	3	134	5	230	6	293	2	94	8	400
TOTAL			3843	126000	1193	1364	32000	2182	66000	1174	1348	42000	2731	107000	1018	2104	81000	1955	2377	65000	900	863	31500	1689	54000	1834	69000	1485	22000	3066	94000

TIME	ADT %	LCV %	70 NB	70 VOL	71 EB	71 WB	71 VOL	72 WB	72 VOL	74 NB	74 SB	74 VOL	75 NB	75 VOL	76	76	76 VOL	77 NB	77 SB	77 VOL	78 EB	78 WB	78 VOL	79 EB	79 WB	79 VOL	80 NB	80 SB	80 VOL	81 NB	81 SB	81 VOL
0:00	0.002250	0.005000	1	187	0	0	35	1	205	0	0	95	1	113	0	0	56	0	0	63	0	0	59	0	0	28	0	0	80	0	0	65
0:15	0.002250	0.005000	1	187	0	0	35	1	205	0	0	95	1	113	0	0	56	0	0	63	0	0	59	0	0	28	0	0	80	0	0	65
0:30	0.002250	0.005000	1	187	0	0	35	1	205	0	0	95	1	113	0	0	56	0	0	63	0	0	59	0	0	28	0	0	80	0	0	65
0:45	0.002250	0.005000	1	187	0	0	35	1	205	0	0	95	1	113	0	0	56	0	0	63	0	0	59	0	0	28	0	0	80	0	0	65
1:00	0.001500	0.005000	1	125	0	0	23	1	137	0	0	63	0	75	0	0	37	0	0	42	0	0	39	0	0	19	0	0	53	0	0	44
1:15	0.001500	0.005000	1	125	0	0	23	1	137	0	0	63	0	75	0	0	37	0	0	42	0	0	39	0	0	19	0	0	53	0	0	44
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2:00	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
2:15	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
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2:45	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
3:00	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
3:15	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
3:30	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
3:45	0.001000	0.005000	0	83	0	0	16	0	91	0	0	42	0	50	0	0	25	0	0	28	0	0	26	0	0	13	0	0	36	0	0	29
4:00	0.002000	0.040000	7	166	1	1	31	7	182	3	3	84	4	100	2	2	50	2	2	56	2	2	52	1	1	25	3	3	71	2	2	58
4:15	0.002000	0.040000	7	166	1	1	31	7	182	3	3	84	4	100	2	2	50	2	2	56	2	2	52	1	1	25	3	3	71	2	2	58
4:30	0.002000	0.040000	7	166	1	1	31	7	182	3	3	84	4	100	2	2	50	2	2	56	2	2	52	1	1	25	3	3	71	2	2	58
4:45	0.002000	0.040000	7	166	1	1	31	7	182	3	3	84	4	100	2	2	50	2	2	56	2	2	52	1	1	25	3	3	71	2	2	58
5:00	0.006750	0.040000	9	560	1	1	105	10	614	11	5	284	14	338	7	5	168	8	8	189	7	7	176	3	3	84	10	10	240	8	8	196
5:15	0.006750	0.040000	15	560	2	2	105	15	614	11	8	284	14	338	7	7	168	8	8	189	10	7	176	3	3	84	10	10	240	8	8	196
5:30	0.006750	0.040000	18	560	2	3	105	25	614	15	11	284	14	338	12	7	168	8	8	189	12	7	176	3	3	84	10	10	240	10	8	196
5:45	0.006750	0.040000	20	560	3	4	105	25	614	20	16	284	14	338	15	7	168	10	8	189	20	7	176	3	3	84	10	10	240	12	15	196
6:00	0.014500		16	1204	2	4	226	16	1320	36	18	609	18	725	20	8	361	13	9	406	25	3	377	7	8	181	12	8	515	16	20	421
6:15	0.014500		26	1204	2	7	226	23	1320	40	28	609	24	725	39	7	361	13	8	406	44	5	377	8	15	181	7	18	515	18	26	421
6:30	0.014500		17	1204	6	14	226	43	1320	55	38	609	26	725	21	7	361	13	11	406	33	11	377	3	18	181	11	21	515	19	52	421
6:45	0.014500		25	1204	7	7	226	48	1320	37	27	609	25	725	23	9	361	14	13	406	59	7	377	11	32	181	8	21	515	19	38	421
7:00	0.016000		42	1328	6	5	250	48	1456	42	28	672	18	800	32	17	398	18	9	448	22	6	416	7	19	200	8	27	568	21	45	464
7:15	0.016000		34	1328	12	6	250	52	1456	39	38	672	17	800	18	6	398	30	16	448	13	10	416	11	25	200	11	20	568	26	29	464
7:30	0.016000		47	1328	3	10	250	42	1456	24	28	672	11	800	22	7	398	14	13	448	19	13	416	4	9	200	13	27	568	30	37	464
7:45	0.016000		43	1328	6	12	250	36	1456	15	17	672	13	800	25	6	398	29	13	448	35	11	416	14	20	200	14	22	568	23	16	464
8:00	0.015000		28	1245	4	10	234	36	1365	15	22	630	22	750	9	5	374	23	19	420	26	12	390	9	10	188	24	20	533	31	25	435
8:15	0.015000		40	1245	7	7	234	38	1365	39	28	630	17	750	5	10	374	15	18	420	27	19	390	3	5	188	28	34	533	32	28	435
8:30	0.015000		29	1245	6	7	234	44	1365	60	21	630	22	750	11	16	374	10	21	420	14	11	390	7	6	188	23	24	533	28	24	435
8:45	0.015000		29	1245	12	7	234	63	1365	52	26	630	20	750	7	13	374	9	23	420	9	18	390	10	15	188	23	14	533	24	24	435
9:00	0.013000		28	1079	4	8	203	36	1183	25	27	546	15	650	10	14	324	15	24	364	22	19	338	6	22	163	28	24	462	27	43	377
9:15	0.013000		26	1079	6	14	203	22	1183	24	26	546	26	650	8	15	324	8	11	364	19	17	338	7	5	163	15	20	462	23	28	377
9:30	0.013000		27	1079	9	6	203	46	1183	27	14	546	17	650	18	7	324	15	15	364	10	5	338	10	9	163	28	15	462	30	30	377
9:45	0.013000		44	1079	7	7	203	40	1183	29	11	546	32	650	27	8	324	13	14	364	19	14	338	12	11	163	24	19	462	33	29	377
10:00	0.012750		39	1058	10	12	199	39	1160	19	19	536	16	638	14	7	317	16	16	357	23	20	332	16	6	159	16	19	453	26	26	370
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11:15	0.013750		35	1141	4	7	215	44	1251	25	10	578	15	688	9	9	342	6	15	385	19	29	358	14	10	172	31	16	488	28	23	399
11:30	0.013750		37	1141	8	10	215	36	1251	23	18	578	21	688	12	9	342	15	17	385	21	19	358	3	5	172	23	19	488	20	27	399
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12:00	0.014250		46	1183	7	8	222	33	1297	9	14	599	24	713	8	9	355	15	18	399	18	16	371	8	6	178	5	20	506	29	24	413
12:15	0.014250		29	1183	9	9	222	31	1297	7	9	599	22	713	16	14	355	16	15	399	22	14	371	4	2	178	4	12	506	35	23	413
12:30	0.014250		35	1183	10	8	222	45	1297	15	7	599	24	713	10	12	355	18	14	399	14	22	371	4	3	178	26	13	506	29	25	413
12:45	0.014250		15	1183	11	12	222	43	1297	13	7	599	14	713	17	10	355	17	17	399	6	12	371	5	4	178	19	18	506	34	24	413
13:00	0.014500		30	1204	6	8	226	26	1320	19	10	609	34	725	7	10	361	21	15	406	30	20	377	2	2	181	27	20	515	30	36	421
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14:15	0.015750		39	1307	5	5	246	30	1433	16	9	662	33	788	7	8	392	14	15	441	10	9	410	4	9	197	9	26	559	17	15	457
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14:45	0.015750		41	1307	5	6	246	58	1433	20	10	662	33	788	5	12	392	16	28	441	17	21	410	1	5	197	26	28	559	17	19	457
15:00	0.017250		39	1432	12	15	269	74	1570	22	11	725	28	863	7	14	430	15	21	483	14	31	449	5	2	216	25	19	612	17	20	500
15:15	0.017250		32	1432	10	18	269	32	1570	13	11	725	22	863	9	14	430	14	19	483	15	29	449	7	7	216	20	18	612	22	20	500
15:30	0.017250		44	1432	11	8	269	42	1570	22	18	725	32	863	11	16	430	17	14	483	24	32	449	2	3	216	32	11	612	18	17	500
15:45	0.017250		34	1432	11	12	269	49	1570	21	10	725	36	863	11	24	430	18	19	483	12	23	449	4	5	216	26	26	612	20	14	500
16:00	0.017500		30	1453	8	8	273	26	1593	20	12	735	41	875	16	19	436	10	13	490	15	27	455	5	3	219	20	17	621	19	21	508
16:15	0.017500		29	1453	9	4	273	25	1593	16	23	735	31	875	11	14	436	14	10	490	12	23	455	3	5	219	22	11	621	6	16	508
16:30	0.017500		45	1453	8	11	273	47	1593	11	14	735	29	875	7	15	436	10	6	490	10	14	455	4	5	219	19	11	621	16	13	508
16:45	0.017500	0.020000	30	1453	7	6	273	24	1593	19	12	735	23	875	6	14	436	11	13	490	6	6	455	5	7	219	15	18	621	15	19	508
17:00	0.016250	0.020000	30	1349	8	4	254	27	1479	17	10	683	22	813	8	15	405	10	15	455	11	23	423	6	8	203	8	6	577	14	11	471
17:15	0.016250	0.020000	32	1349	10	6	254	31	1479	17	12	683	22	813	11	13	405	9	8	455	9	10	423	6	3	203	11	10	577	13	11	471
17:30	0.016250	0.020000	28	1349	7	5	254	24	1479	22	9	683	22	813	7	19	405	10	12	455	8	12	423	3	6	203	17	15	577	12	3	471
17:45	0.016250	0.020000	25	1349	3	5	254	20	1479	20	13	683	15	813	4	5	405	8	5	455	10	13	423	7	5	203	7	9	577	9	11	471
18:00	0.014250	0.020000	24	1183	4	4	222	15	1297	12	12	599	14	713	7	7	355	8	8	399	7	7	371	4	4	178	12	5	506	9	6	413
18:15	0.014250	0.020000	24	1183	4	4	222	18	1297	12	12	599	14	713	7	7	355	8	8	399	7	7	371	4	4	178	10	5	506	3	9	413
18:30	0.014250	0.020000	24	1183	4	4	222	16	1297	12	12	599	14	713	7	7	355	8	8	399	7	7	371	4	4	178	5	2	506	5	8	413
18:45	0.014250	0.020000	24	1183	4	4	222	17	1297	12	12	599	14	713	7	7	355	8	8	399	7	7	371	4	4	178	5	5	506	4	3	413
19:00	0.011250	0.020000	19	934	4	4	176	12	1024	9	9	473	11	563	6	6	280	6	6	315	6	6	293	3	3	141	5	6	399	8	5	326
19:15	0.011250	0.020000	19	934	4	4	176	18	1024	9	9	473	11	563	6	6	280	6	6	315	6	6	293	3	3	141	7	3	399	3	3	326
19:30	0.011250	0.020000	19	934	4	4	176	21	1024	9	9	473	11	563	6	6	280	6	6	315	6	6	293	3	3	141	3	2	399	1	6	326
19:45	0.011250	0.020000	19	934	4	4	176	12	1024	9	9	473	11	563	6	6	280	6	6	315	6	6	293	3	3	141	4	3	399	5	8	326
20:00	0.009750	0.020000	16	809	3	3	152	8	887	8	8	410	10	488	5	5	243	5	5	273	5	5	254	2	2	122	3	1	346	2	7	283
20:15	0.009750	0.020000	16	809	3	3	152	7	887	8	8	410	10	488	5	5	243	5	5	273	5	5	254	2	2	122	5	3	346	3	0	283
20:30	0.009750	0.020000	16	809	3	3	152	10	887	8	8	410	10	488	5	5	243	5	5	273	5	5	254	2	2	122	4	1	346	3	4	283
20:45	0.009750	0.020000	16	809	3	3	152	8	887	8	8	410	10	488	5	5	243	5	5	273	5	5	254	2	2	122	2	4	346	3	4	283
21:00	0.009000	0.020000	15	747	3	3	140	5	819	8	8	378	9	450	4	4	224	5	5	252	5	5	234	2	2	113	4	5	320	5	5	261
21:15	0.009000	0.020000	15	747	3	3	140	16	819	8	8	378	9	450	4	4	224	5	5	252	5	5	234	2	2	113	6	1	320	4	11	261
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21:45	0.009000	0.020000	15	747	3	3	140	16	819	8	8	378	9	450	4	4	224	5	5	252	5	5	234	2	2	113	1	2	320	4	3	261
22:00	0.006750	0.020000	11	560	2	2	105	12	614	6	6	284	7	338	3	3	168	4	4	189	4	4	176	2	2	84	5	5	240	4	4	196
22:15	0.006750	0.020000	11	560	2	2	105	12	614	6	6	284	7	338	3	3	168	4	4	189	4	4	176	2	2	84	5	5	240	4	4	196
22:30	0.006750	0.020000	11	560	2	2	105	12	614	6	6	284	7	338	3	3	168	4	4	189	4	4	176	2	2	84	5	5	240	4	4	196
22:45	0.006750	0.020000	11	560	2	2	105	12	614	6	6	284	7	338	3	3	168	4	4	189	4	4	176	2	2	84	5	5	240	4	4	196
23:00	0.004250	0.020000	7	353	1	1	66	8	387	4	4	179	4	213	2	2	106	2	2	119	2	2	111	1	1	53	3	3	151	2	2	123
23:15	0.004250	0.020000	7	353	1	1	66	8	387	4	4	179	4	213	2	2	106	2	2	119	2	2	111	1	1	53	3	3	151	2	2	123
23:30	0.004250	0.020000	7	353	1	1	66	8	387	4	4	179	4	213	2	2	106	2	2	119	2	2	111	1	1	53	3	3	151	2	2	123
23:45	0.004250	0.020000	7	353	1	1	66	8	387	4	4	179	4	213	2	2	106	2	2	119	2	2	111	1	1	53	3	3	151	2	2	123
TOTAL	[redacted]		2028	83000	420	497	15600	2191	91000	1405	1033	42000	1434	50000	772	705	24900	873	898	28000	1112	984	26000	395	476	12500	1069	984	35500	1272	1291	29000

TIME	ADT %	LCV %	82 EB	82 WB	82 VOL	84 EB	84 WB	84 VOL	85 NB	85 VOL	86 EB	86 WB	86 VOL	87	87 VOL	88 NB	88 SB	88 VOL	89 EB	89 WB	89 VOL	90 EB	90 WB	90 VOL
0:00	0.002250	0.005000	0	0	46	1	1	137	1	164	0	0	89	0	56	0	0	43	0	0	79	0	0	32
0:15	0.002250	0.005000	0	0	46	1	1	137	1	164	0	0	89	0	56	0	0	43	0	0	79	0	0	32
0:30	0.002250	0.005000	0	0	46	1	1	137	1	164	0	0	89	0	56	0	0	43	0	0	79	0	0	32
0:45	0.002250	0.005000	0	0	46	1	1	137	1	164	0	0	89	0	56	0	0	43	0	0	79	0	0	32
1:00	0.001500	0.005000	0	0	31	0	0	92	1	110	0	0	59	0	38	0	0	28	0	0	53	0	0	21
1:15	0.001500	0.005000	0	0	31	0	0	92	1	110	0	0	59	0	38	0	0	28	0	0	53	0	0	21
1:30	0.001500	0.005000	0	0	31	0	0	92	1	110	0	0	59	0	38	0	0	28	0	0	53	0	0	21
1:45	0.001500	0.005000	0	0	31	0	0	92	1	110	0	0	59	0	38	0	0	28	0	0	53	0	0	21
2:00	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
2:15	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
2:30	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
2:45	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
3:00	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
3:15	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
3:30	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
3:45	0.001000	0.005000	0	0	21	0	0	61	0	73	0	0	40	0	25	0	0	19	0	0	35	0	0	14
4:00	0.002000	0.040000	2	2	41	5	5	122	6	146	3	3	79	2	50	2	2	38	3	3	70	1	1	28
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5:00	0.006750	0.040000	6	6	138	6	16	412	8	493	11	11	267	7	169	5	5	128	9	9	236	4	4	95
5:15	0.006750	0.040000	2	2	138	8	16	412	10	493	11	11	267	7	169	5	5	128	9	9	236	4	4	95
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6:00	0.014500		1	3	297	7	16	885	14	1059	19	26	573	5	363	21	21	274	5	9	508	5	6	204
6:15	0.014500		4	4	297	5	58	885	11	1059	19	29	573	19	363	30	51	274	25	9	508	4	11	204
6:30	0.014500		5	9	297	10	59	885	23	1059	52	43	573	14	363	28	28	274	18	21	508	5	9	204
6:45	0.014500		9	10	297	14	52	885	19	1059	49	59	573	20	363	37	29	274	31	21	508	3	15	204
7:00	0.016000		7	13	328	11	32	976	14	1168	47	44	632	20	400	32	29	302	28	22	560	6	14	226
7:15	0.016000		6	16	328	14	45	976	9	1168	44	31	632	19	400	19	28	302	32	33	560	7	4	226
7:30	0.016000		6	20	328	16	36	976	10	1168	43	66	632	16	400	27	28	302	33	25	560	14	10	226
7:45	0.016000		5	28	328	18	46	976	24	1168	38	54	632	20	400	28	21	302	36	24	560	6	15	226
8:00	0.015000		8	22	308	24	27	915	32	1095	32	59	593	25	375	22	19	284	40	17	525	11	12	212
8:15	0.015000		15	22	308	14	37	915	16	1095	43	66	593	29	375	31	31	284	38	36	525	9	11	212
8:30	0.015000		17	30	308	19	46	915	27	1095	39	74	593	32	375	23	26	284	37	22	525	12	9	212
8:45	0.015000		19	24	308	18	55	915	17	1095	35	65	593	29	375	25	21	284	37	27	525	9	13	212
9:00	0.013000		12	31	267	29	38	793	31	949	33	61	514	35	325	17	11	246	34	30	455	12	10	183
9:15	0.013000		19	23	267	16	36	793	21	949	54	61	514	22	325	28	11	246	27	29	455	9	10	183
9:30	0.013000		19	24	267	21	43	793	16	949	29	37	514	18	325	25	19	246	21	28	455	8	10	183
9:45	0.013000		18	28	267	19	45	793	12	949	39	58	514	22	325	28	19	246	27	25	455	11	12	183
10:00	0.012750		12	24	261	18	31	778	18	931	19	47	504	20	319	22	16	241	19	23	446	9	12	180
10:15	0.012750		7	24	261	24	38	778	28	931	37	41	504	31	319	15	14	241	14	22	446	12	13	180
10:30	0.012750		24	27	261	25	40	778	24	931	42	49	504	29	319	18	16	241	19	26	446	6	12	180
10:45	0.012750		16	14	261	26	43	778	20	931	25	47	504	25	319	15	22	241	23	17	446	10	13	180
11:00	0.013750		22	34	282	19	43	839	20	1004	34	50	543	26	344	23	26	260	20	25	481	7	9	194
11:15	0.013750		22	26	282	21	39	839	11	1004	28	36	543	21	344	28	28	260	16	16	481	13	11	194
11:30	0.013750		17	27	282	14	53	839	14	1004	43	37	543	23	344	23	19	260	18	12	481	9	9	194
11:45	0.013750		12	21	282	17	37	839	19	1004	46	44	543	29	344	18	29	260	19	23	481	9	12	194
12:00	0.014250		11	19	292	15	34	869	25	1040	46	44	563	18	356	28	30	269	20	17	499	10	8	201
12:15	0.014250		14	19	292	12	38	869	14	1040	33	30	563	18	356	17	27	269	20	22	499	13	10	201
12:30	0.014250		19	22	292	23	19	869	8	1040	30	35	563	18	356	15	23	269	22	16	499	15	10	201
12:45	0.014250		26	15	292	25	34	869	9	1040	36	45	563	18	356	16	20	269	24	18	499	5	7	201
13:00	0.014500		20	18	297	25	39	885	13	1059	36	32	573	18	363	18	21	274	21	19	508	2	4	204
13:15	0.014500		10	21	297	21	40	885	13	1059	42	25	573	18	363	18	22	274	19	19	508	7	8	204
13:30	0.014500		17	23	297	18	40	885	17	1059	37	47	573	18	363	17	26	274	18	20	508	13	10	204
13:45	0.014500		18	21	297	24	27	885	15	1059	33	36	573	18	363	23	27	274	22	31	508	8	4	204
14:00	0.015750		21	22	323	19	46	961	19	1150	29	35	622	20	394	15	29	298	37	31	551	5	9	222
14:15	0.015750		10	28	323	15	44	961	16	1150	38	41	622	20	394	17	26	298	18	22	551	11	14	222
14:30	0.015750		10	23	323	23	33	961	17	1150	44	38	622	20	394	13	25	298	37	19	551	8	5	222
14:45	0.015750		13	19	323	21	37	961	10	1150	35	45	622	20	394	20	16	298	27	26	551	7	5	222
15:00	0.017250		19	22	354	27	49	1052	24	1259	39	41	681	13	431	12	20	326	40	30	604	2	11	243
15:15	0.017250		24	17	354	24	31	1052	6	1259	28	35	681	13	431	15	14	326	45	31	604	6	6	243
15:30	0.017250		21	23	354	25	26	1052	19	1259	42	47	681	13	431	25	27	326	37	25	604	8	8	243
15:45	0.017250		20	23	354	20	35	1052	14	1259	38	49	681	13	431	22	21	326	39	26	604	6	5	243
16:00	0.017500		18	11	359	20	35	1068	17	1278	50	36	691	13	438	21	18	331	49	29	613	1	2	247
16:15	0.017500		18	13	359	17	33	1068	18	1278	37	48	691	13	438	21	18	331	41	26	613	6	4	247
16:30	0.017500		19	16	359	24	22	1068	7	1278	33	42	691	13	438	16	17	331	49	32	613	4	6	247
16:45	0.017500	0.020000	12	15	359	26	34	1068	9	1278	32	40	691	9	438	14	14	331	32	26	613	3	1	247
17:00	0.016250	0.020000	10	7	333	21	17	991	7	1186	31	28	642	8	406	18	11	307	47	25	569	7	4	229
17:15	0.016250	0.020000	9	15	333	14	30	991	8	1186	36	42	642	8	406	20	16	307	21	24	569	9	5	229
17:30	0.016250	0.020000	7	12	333	15	35	991	4	1186	33	46	642	8	406	18	20	307	29	15	569	1	2	229
17:45	0.016250	0.020000	2	10	333	12	23	991	11	1186	21	32	642	8	406	19	14	307	19	12	569	5	4	229
18:00	0.014250	0.020000	6	6	292	17	17	869	21	1040	11	11	563	7	356	5	5	269	10	10	499	4	4	201
18:15	0.014250	0.020000	6	6	292	17	17	869	18	1040	11	11	563	7	356	5	5	269	10	10	499	4	4	201
18:30	0.014250	0.020000	6	6	292	17	17	869	17	1040	11	11	563	7	356	5	5	269	10	10	499	4	4	201
18:45	0.014250	0.020000	6	6	292	17	17	869	16	1040	11	11	563	7	356	5	5	269	10	10	499	4	4	201
19:00	0.011250	0.020000	5	5	231	14	14	686	15	821	9	9	444	6	281	4	4	213	8	8	394	3	3	159
19:15	0.011250	0.020000	5	5	231	14	14	686	16	821	9	9	444	6	281	4	4	213	8	8	394	3	3	159
19:30	0.011250	0.020000	5	5	231	14	14	686	14	821	9	9	444	6	281	4	4	213	8	8	394	3	3	159
19:45	0.011250	0.020000	5	5	231	14	14	686	16	821	9	9	444	6	281	4	4	213	8	8	394	3	3	159
20:00	0.009750	0.020000	4	4	200	12	12	595	14	712	8	8	385	5	244	4	4	184	7	7	341	3	3	137
20:15	0.009750	0.020000	4	4	200	12	12	595	14	712	8	8	385	5	244	4	4	184	7	7	341	3	3	137
20:30	0.009750	0.020000	4	4	200	12	12	595	14	712	8	8	385	5	244	4	4	184	7	7	341	3	3	137
20:45	0.009750	0.020000	4	4	200	12	12	595	14	712	8	8	385	5	244	4	4	184	7	7	341	3	3	137
21:00	0.009000	0.020000	4	4	185	11	11	549	13	657	7	7	356	5	225	3	3	170	6	6	315	3	3	127
21:15	0.009000	0.020000	4	4	185	11	11	549	13	657	7	7	356	5	225	3	3	170	6	6	315	3	3	127
21:30	0.009000	0.020000	4	4	185	11	11	549	13	657	7	7	356	5	225	3	3	170	6	6	315	3	3	127
21:45	0.009000	0.020000	4	4	185	11	11	549	13	657	7	7	356	5	225	3	3	170	6	6	315	3	3	127
22:00	0.006750	0.020000	3	3	138	8	8	412	10	493	5	5	267	3	169	3	3	128	5	5	236	2	2	95
22:15	0.006750	0.020000	3	3	138	8	8	412	10	493	5	5	267	3	169	3	3	128	5	5	236	2	2	95
22:30	0.006750	0.020000	3	3	138	8	8	412	10	493	5	5	267	3	169	3	3	128	5	5	236	2	2	95
22:45	0.006750	0.020000	3	3	138	8	8	412	10	493	5	5	267	3	169	3	3	128	5	5	236	2	2	95
23:00	0.004250	0.020000	2	2	87	5	5	259	6	310	3	3	168	2	106	2	2	80	3	3	149	1	1	60
23:15	0.004250	0.020000	2	2	87	5	5	259	6	310	3	3	168	2	106	2	2	80	3	3	149	1	1	60
23:30	0.004250	0.020000	2	2	87	5	5	259	6	310	3	3	168	2	106	2	2	80	3	3	149	1	1	60
23:45	0.004250	0.020000	2	2	87	5	5	259	6	310	3	3	168	2	106	2	2	80	3	3	149	1	1	60
TOTAL			786	1054	20500	1242	2170	61000	1159	73000	1982	2371	39500	1052	25000	1146	1191	18900	1558	1311	35000	451	497	14100

APPENDIX D

MASTER STATION MATRIX

STATION	TYPE	ROAD	LOCATION	COUNTY	CITY	DUCK BLIND	DIR.	FACILITY	AREA	HRS.	LCV NB	LCV SB	LCV EB	LCV WB	LCV NB 24 HR	LCV SB 24 HR	LCV EB 24 HR	LCV WB 24 HR	LCV % NB 24 HR	LCV % SB 24 HR	LCV% EB 24 HR	LCV % WB 24 HR	LCVADT	ADT	ADJUSTED ADT	%LCV OF ADT	HCADT	% HCADT OF ADT	ADJUSTED HCADT	LCV + HCV	% CV OF ADT
1	US	10/169	East of TH 101 Interchange	Sherburne	Elk River		B	EXPRESSWAY	CORDON LINE	16	1102	887			1180	965	-	-	55%	45%			2145	26700	26700	8.0%	1100	4.1%	1100	3245	12.2%
2	MN	101	South of CR 42	Wright	Otsego		B	EXPRESSWAY	CORDON LINE	16	1217	973			1311	1067	-	-	55%	45%			2378	34300	34300	6.9%	2250	6.6%	2250	4628	13.5%
3	I	94	North of TH 101 Interchange	Hennepin	Rogers		B	FREEWAY	OUTSIDE	16	1348	1802			1509	1743	-	-	46%	54%			3252	51000	51000	6.4%	5450	10.7%	5450	8702	17.1%
4	I	94	Btwn CSAH 30 & Weaver Lk	Hennepin	Maple Gr.		B	FREEWAY	OUTSIDE	16	1994	2830			2208	3261	-	-	40%	60%			5469	83000	83000	6.6%	5550	7.9%	5550	12019	14.5%
5	US	169	Btwn 77th Ave. & CSAH 81	Hennepin	Brklyn Pk		B	FREEWAY	OUTSIDE	16	1099	921			1226	1030	-	-	54%	46%			2256	53000	53000	4.3%	2050	3.9%	2050	4306	8.1%
6	I	94/694	Btwn I 494 & CSAH 81	Hennepin	Brklyn Pk		EB	FREEWAY	RING	16			2451		-	-	2720	N/A					2720	87000	43500	6.3%	7700	8.9%	3850	6570	15.1%
7	I	94/694	Btwn CSAH 81 & Brooklyn Blv	Hennepin	Brklyn Pk		B	FREEWAY	RING	16			4246	3810	-	-	4515	4159			53%	47%	8774	100000	100000	8.8%	7900	7.9%	7900	16674	16.7%
8	MN	100	South of CSAH 9 & Interchng	Hennepin	Robbinsdale		SB	EXPRESSWAY	INSIDE	12		1699			N/A	2076	-	-					2076	55000	27500	7.5%	1200	2.2%	600	2676	9.7%
9	US	169	South of CSAH 9 & Interchng	Hennepin	Plymouth		SB	FREEWAY	INSIDE	12		2021			N/A	2567	-	-					2567	92000	46000	5.6%	3900	4.2%	1950	4517	9.8%
10	I	494	North of CSAH 10 Interchng	Hennepin	Plymouth		NB	FREEWAY	RING	12	2154				2599	N/A	-	-					2599	75000	37500	6.9%	5450	7.3%	2725	5324	14.2%
11	MN	55	East of CSAH 24/CSAH 9	Hennepin	Plymouth		B	EXPRESSWAY	OUTSIDE	12			1036	1096	-	-	1207	1270			49%	51%	2477	28000	28000	8.8%	1350	4.8%	1350	3827	13.7%
12	MN	55	East of CSAH 6	Hennepin	Plymouth		B	EXPRESSWAY	INSIDE	12			1154	1112	-	-	1348	1304			51%	49%	2652	34000	34000	7.8%	2350	6.9%	2350	5002	14.7%
13	I	394	East of Theo. Wirth Parkway	Hennepin	Mpls.	X	EB	FREEWAY	INSIDE	12			2217		-	-	2634	N/A					2634	143000	71500	3.7%	4600	3.2%	2300	4934	6.9%
14	US	169	North of CSAH 5/Mtka Blvd.	Hennepin	St. Louis Pk		SB	FREEWAY	INSIDE	8		1627			N/A	2575	-	-					2575	91000	45500	5.7%	3700	4.1%	1850	4425	9.7%
15	US	12	West of Carlson Parkway	Hennepin	Mtka		B	FREEWAY	OUTSIDE	12			1542	1509	-	-	1975	1942			50%	50%	3917	73000	73000	5.4%	1600	2.5%	1600	5717	7.8%
16	I	494	North of CSAH 5 Interchng	Hennepin	Mtka		SB	FREEWAY	RING	12		2707			N/A	3271	-	-					3271	95000	47500	6.9%	5700	6.0%	2850	6121	12.9%
17	MN	7	East of TH 101	Hennepin	Mtka		B	EXPRESSWAY	CORDON LINE	16			1665	1730	-	-	1781	1845			49%	51%	3627	48500	48500	7.5%	1500	3.1%	1500	5127	10.6%
18	I	494	Btwn TH 62 & CSAH 3 Overp	Hennepin	Mtka		B	FREEWAY	RING	16	2759	2050			3017	2311	-	-	57%	43%			5328	81000	81000	6.6%	5200	6.4%	5200	10528	13.0%
19	US	212	North of CSAH 61 Interchng	Hennepin	Eden Prairie		NB	FREEWAY	INSIDE	16	1360				1487	N/A	-	-					1487	53000	26500	5.6%	1450	2.7%	725	2212	8.3%
20	MN	100	South of 50th Ave. Interchng	Hennepin	Edina		SB	FREEWAY	INSIDE	16		2356			N/A	2640	-	-					2640	111000	55500	4.8%	2700	2.4%	1350	3990	7.2%
21	MN	62	East of TH 169/TH 212	Hennepin	Edina		B	FREEWAY	INSIDE	16			2003	1933	-	-	2141	2075			51%	49%	4216	95000	55000	4.4%	2400	2.5%	2400	6616	7.0%
22	MN	5	East of TH 41	Carver	Chanhassen		B	EXPRESSWAY	CORDON LINE	16			776	735	-	-	818	782			51%	49%	1600	28000	28000	5.7%	1250	4.5%	1250	2850	10.2%
23	MN	5	West of CSAH 4	Hennepin	Eden Prairie		EB	EXPRESSWAY	OUTSIDE	12			1354		-	-	1621	N/A					1621	45000	22500	7.2%	1500	3.3%	750	2371	10.5%
24	US	212	North of CSAH 1/Pioneer Trail	Hennepin	Eden Prairie		NB	EXPRESSWAY	OUTSIDE	16	666				744	N/A	-	-					744	25000	12500	8.0%	1050	4.2%	525	1269	10.2%
25	I	494	East of Bush Lake Road	Hennepin	Bloomington		EB	FREEWAY	RING	8				2479	-	-	N/A	2479					2479	123000	61500	4.0%	6400	5.2%	3200	5679	9.2%
26	US	169	North of Bloom. Ferry Bridge	Hennepin	Eden Prairie		B	EXPRESSWAY	OUTSIDE	16	957	960			1073	1076	-	-	50%	50%			2149	42000	42000	5.1%	3550	8.5%	3550	5699	13.6%
27	US	212	East of TH 41	Carver	Chaska		B	EXPRESSWAY	CORDON LINE	12			685	501	-	-	777	584			57%	43%	1361	15000	15000	9.1%	675	4.5%	675	2036	13.6%
28	US	169	South of TH 41	Scott	Shakopee		B	EXPRESSWAY	CORDON LINE	12	652	633			811	795	-	-	50%	50%			1606	28000	28000	5.7%	2075	7.4%	2075	3681	13.1%
29	I	35	South of I-35W & I-35E Jct	Dakota	Burnsville		B	FREEWAY	CORDON LINE	12	1492	1470			1967	1945	-	-	50%	50%			3912	80000	80000	4.9%	5500	6.9%	5500	9412	11.8%
30	I	35W	North of River Crossing	Hennepin	Bloomington		NB	FREEWAY	OUTSIDE	12	3132				3749	N/A	-	-					3749	104000	52000	7.2%	8900	8.6%	3450	7199	13.9%
31	MN	77	North of River Crossing	Hennepin	Bloomington	X	NB	FREEWAY	OUTSIDE	12	1652				2172	N/A	-	-					2172	97000	48500	4.5%	2400	2.5%	1200	3372	7.0%
32	I	494	East of France Ave Interchng	Hennepin	Bloomington		B	FREEWAY	RING	12			4124	3791	-	-	5068	4735			52%	48%	9803	159000	159000	6.2%	7500	4.7%	7500	17303	10.9%
33	I	494	Btwn 24th & 34th Avenue	Hennepin	Bloomington		B	FREEWAY	RING	12			2308	2185	-	-	3121	2978			51%	49%	6099	137000	137000	4.5%	6600	4.8%	6600	12699	9.3%
34	MN	77	South of Th 62	Hennepin	Richfield		NB	FREEWAY	INSIDE	12	1359				1774	N/A	-	-					1774	70000	35000	5.1%	2000	2.9%	1000	2774	7.9%
35	I	35W	South of TH 62 Commons	Hennepin	Mpls.	X	NB	FREEWAY	INSIDE	12					3694	N/A	-	-					3694	106000	53000	7.0%	6400	6.0%	3200	6894	13.0%
36	MN	55	North of Minnehaha Pkwy	Hennepin	Mpls.		B	EXPRESSWAY	INSIDE	12	619	635			785	801	-	-	49%	51%			1586	28000	28000	5.7%	1250	4.5%	1250	2836	10.1%
38	I	94	East of TH 280	Ramsey	St. Paul		B	FREEWAY	INSIDE	12			1609	2308	-	-	2495	3194			44%	56%	5689	168000	168000	3.4%	8700	5.2%	8700	14389	8.6%
39	I	94	South of 42nd Avenue	Hennepin	Mpls.	X	NB	FREEWAY	INSIDE	16	3516				3913	N/A	-	-					3913	120000	60000	6.5%	4800	4.0%	2400	6313	10.5%
40	I	94/694	Btwn TH 100 & TH 252	Hennepin	Brooklyn Pk		WB	FREEWAY	RING	12				3170	-	-	N/A	3936					3936	129000	64500	6.1%	8500	6.6%	4250	8188	12.7%
41	I	694	Btwn TH 47 & TH 65	Anoka	Fridley	X	WB	FREEWAY	RING	12				3204	-	-	N/A	3999					3999	134000	67000	6.0%	7600	5.7%	3800	7799	11.6%
42	I	694	East of Silver Lake Road	Ramsey	New Brighton		WB	FREEWAY	RING	16				2831	-	-	N/A	3142					3142	113000	56500	5.6%	6400	5.7%	3200	6342	11.2%
43	I	35W	North of TH 10 Interchng	Ramsey	Mounds View		SB	FREEWAY	OUTSIDE	12		2683			N/A	3235	-	-					3235	93000	46500	7.0%	4750	5.1%	2375	5610	12.1%
44	US	10	East of Silver Lake Road	Ramsey	Mounds View		B	EXPRESSWAY	OUTSIDE	12	1207	1042			1462	1297	-	-	53%	47%			2759	43000	43000	6.4%	1450	3.4%	1450	4209	9.8%
45	MN	65	South of 73rd Avenue	Anoka	Fridley		B	EXPRESSWAY	OUTSIDE	12	768	1099			982	1313	-	-	43%	57%			2295	36000	36000	6.4%	1400	3.9%	1400	3695	10.3%
46	MN	252	South of 85th Avenue	Hennepin	Brooklyn Pk	X	NB	EXPRESSWAY	OUTSIDE	12	1679				1982	N/A	-	-					1982	51000	25500	7.8%	1400	2.7%	700	2682	10.5%
47	US	10	South of Hanson Blvd.	Anoka	Coon Rapids		B	FREEWAY	OUTSIDE	12	1581	1691			1985	2095	-	-	49%	51%			4080	68000	68000	6.0%	2800	4.1%	2800	6880	10.1%
48	MN	65	Btwn 53rd & Constance	Anoka	Ham Lake		B	EXPRESSWAY	CORDON LINE	12	629	1183			811	1427	-	-	36%	64%			2238	35000	35000	6.4%	1350	3.9%	1350	3588	10.3%
49	I	35	North of I-35W & 35E Jct	Anoka	Forest Lk		B	FREEWAY	CORDON LINE	12	1247	1165			1633	1578	-	-	51%	49%			3211	65000	65000	4.9%	3000	4.6%	3000	6211	9.6%
51	I	694	Btwn TH 10 & Snelling	Ramsey	Arden Hills		B	FREEWAY	RING	12			2211	2211	-	-	3661	2864			56%	44%	6525	110000	110000	5.9%	5800	5.4%	5900	12425	11.3%
52	I	694	West of Rice St./TH 49	Ramsey	Shoreview		B	FREEWAY	RING	12			2698	2698	-	-	3930	3262			55%	45%	7192	95000	95000	7.6%	5800	5.9%	5600	12792	13.5%
53	I	35E	South of TH 96	Ramsey	Vadnais Hts		B	FREEWAY	OUTSIDE	12	1353	1426			1783	1636	-	-	49%	51%			3599	69000	69000	5.2%	2800	4.1%	2800	6399	9.3%
54	I	35E	I-694 Commons	Ramsey	Little Canada		B	FREEWAY	RING	12			2365	2100	-	-	3042	2777			52%	48%	5819	114000	114000	5.1%	6500	5.7%	6500	12319	10.8%
55	I	35W	North of TH 36	Ramsey	Roseville		B	FREEWAY	INSIDE	12	2874	2557			3533	3216	-	-	52%	48%			6749	111000	111000	6.1%	6100	5.5%	6100	12849	11.6%
56	MN	51	South of TH 36	Ramsey	Roseville		EB	EXPRESSWAY	INSIDE	12		572			N/A	716	-	-					716	41000	20500	3.5%	1450	3.5%	725	1441	7.0%
57	MN	36	West of Victoria Street	Ramsey	Roseville		B	EXPRESSWAY	INSIDE	12			1482	1072	-	-	1831	1421			56%	44%	3252	88000	88000	3.7%	2600	3.0%	2600	5852	6.7%
58	I	35E	South of TH 36	Ramsey	Maplewood	X	NB	FREEWAY	INSIDE	12	3095				3843	N/A	-	-					3843	126000	63000	6.1%	5400	4.3%	2700	6543	10.4%
59	MN	36	East of White Bear Avenue	Ramsey	N St. Paul		B	EXPRESSWAY	INSIDE	12			1003	1158	-	-	1193	1364			47%	53%	2557	32000	32000	8.0%	1200	3.8%	1200	3757	11.7%
60	I	694	South of TH 36	Washington	Oakdale	X	NB	FREEWAY	RING	11	1681				2182	N/A	-	-					2182	66000	33000	6.6%	4150	6.3%	2075	4257	12.9%
61	MN	36	East of CSAH 36	Washington	Lake Elmo		B	EXPRESSWAY	CORDON LINE	12				960	1090	-	-	1174	1346			47%	53%	2520	42000	42000	6.0%	1350	3.2%	1350	3870	9.2%
62	I	94	West of TH 61	Ramsey	St. Paul		WB	FREEWAY	INSIDE	12				2141	-	-	N/A	2734					2734	107000	53500	5.1%	3500	3.3%	1750	4484	8.4%
63	I	94	West of TH 95	Washington	Lakeland		B	FREEWAY	CORDON LINE	12			656	1738	-	-	1018	2104			33%	67%	3122	61000	61000	5.1%	5400	8.9%	5400	8522	14.0%
64	I	494	South of I-94	Washington	Woodbury		B	FREEWAY	RING	12	1569	1976			1855	2377	-	-	45%	55%			4332	65000	65000	8.7%	5400	8.3%	5400	9732	15.0%
65	US	10 & 61	South of County Road 39	Ramsey	St. Paul		B	EXPRESSWAY	INSIDE	12	741	715			900	883	-	-	51%	49%			1783	31500	31500	5.6%	1600	5.1%	1600	3383	10.7%
66	US	52	South of Butler Avenue	Dakota	S. St. Paul	X	NB	FREEWAY	INSIDE	12	1349				1669	N/A	-	-					1669	54000	27000	6.2%	4100	7.6%	2050	3719	13.8%
67	I	35E	Near River Crossing	Ramsey	St. Paul		SB	FREEWAY	INSIDE	12		1443			N/A	1834	-	-					1834	69000	34500	5.3%	2200	3.2%	1100	2934	8.5%
68	MN	55	Mendota Bridge	Dakota	Mendota Hts		EB	EXPRESSWAY	INSIDE	16			1418		-	-	1485	N/A					1485	22000	11000	13.5%	1800	8.2%	900	2385	21.7%
69	I	494	East of Pilot Knob Road	Dakota	Eagan	X	WB	FREEWAY	RING	12				2536	-	-	N/A	3068					3068	94000	47000	6.5%	6000	6.4%	3000	6068	12.9%
70	I	35E	South of Lone Oak Road	Dakota	Eagan		NB	FREEWAY	OUTSIDE	12	1563				2028	N/A	-	-					2028	83000	41500	4.9%	2450	3.0%	1225	3253	7.8%
71	MN	55	East of TH 149	Dakota	Inver Grove Hts		B	EXPRESSWAY	OUTSIDE	12			336	411	-	-	420	497			46%	54%	917	15600	15600	5.9%	1100	7.1%	1100	2017	12.9%
72	MN	110	West of I-494 & TH 3	Dakota	Sun Fish Lk		WB	FREEWAY	RING	16				1948	-	-	N/A	2191					2191	91000	45500	4.8%	6100	6.7%	3050	5241	11.5%
74	US	52	North of CSAH 26	Dakota	Inver Grove Hts		B	FREEWAY	OUTSIDE	12	1143	789			1405	1033	-	-	58%	42%			2438	42000	42000	5.8%	3700	8.8%	3700	6138	14.6%
75	US	61	North of County Road 22	Dakota	Newport		NB	EXPRESSWAY	OUTSIDE	12	1137				1434	N/A	-	-					1434	50000	25000	5.7%	2100	4.2%	1050	2484	9.9%
76	US	52	South of CSAH 42	Dakota	Rosemount		B	EXPRESSWAY	CORDON LINE	12	611	559			772	705	-	-	52%	48%			1477	24900	24900	5.9%	2300	9.2%	2300	3777	15.2%
77	US	61	South of TH 55	Dakota	Hastings		B	EXPRESSWAY	CORDON LINE	12	704	732			873	898	-	-	49%	51%			1771	28000	28000	6.3%	1200	4.3%	1200	2971	10.6%
78	US	12	West of CSAH 15	Hennepin	Orono		B	EXPRESSWAY	CORDON LINE	12			937	830	-	-	1112	984			53%	47%	2096	26000	26000	8.1%	975	3.8%	975	3071	11.8%
79	US	10	East of TH 61	Dakota	Hastings		B	EXPRESSWAY	CORDON LINE	12			321	402	-	-	395	476			45%	55%	871	12500	12500	7.0%	550	4.4%	550	1421	11.4%
80	MN	47	North of I 694	Anoka	Fridley		B	EXPRESSWAY	OUTSIDE	16	984	899			1069	984	-	-	52%	48%			2053	35500	35500	5.8%	675	1.9%	675	2728	7.7%
81	US	61	North of I 694	Ramsey	White Bear Lk.		B	EXPRESSWAY	OUTSIDE	16	1196	1214			1272	1291	-	-	50%	50%			2563	29000	29000	8.8%	900	3.1%	900	3463	11.9%
82	US	52	West of TH 51	Ramsey	St. Paul		B	EXPRESSWAY	INSIDE	12			670	938	-	-	788	1054			43%	57%	1840	20500	20500	9.0%	800	3.9%	800	2640	12.9%
84	MN	62	West of TH 55	Hennepin	Mpls.		B	FREEWAY	INSIDE	12			905	1796	-	-	1242	2170			36%	64%	3412	61000	61000	5.6%	1900	3.1%	1900	5312	8.7%
85	MN	5	Southwest of TH 55	Hennepin	Ft. Snelling		NB	FREEWAY	INSIDE	12	770				1159	N/A	-	-					1159	73000	36500	3.2%	4000	5.5%	2000	3159	8.7%
86	MN	101	West of TH 13	Scott	Shakopee		B	EXPRESSWAY	OUTSIDE	12			1748	2126	-	-	1982	2371			46%	54%	4353	39500	39500	11.0%	6300	15.9%	6300	10653	27.0%
87	MN	13	Btwn I 35w and TH 77	Dakota	Burnsville		EB	EXPRESSWAY	OUTSIDE	8			549		-	-	1052	N/A					1052	25000	12500	8.4%	875	3.5%	438	1490	11.9%
88	MN	41	River Crossing	Carver	Chaska		B	EXPRESSWAY	OUTSIDE	12					1146	1191	-	-	49%	51%			2337	16900	16900	12.4%	2100	12.7%	2400	4737	28.1%
89	MN	55	West of Penn Ave.	Hennepin	Mpls.		B	EXPRESSWAY	INSIDE	12			1350	1103	-	-	1558	1311			54%	46%	2869	35000	35000	8.2%	2300	6.6%	2300	5169	14.8%
90	MN	55	Btwn TH 52 and CR 42	Dakota	Rosemount		B	EXPRESSWAY	CORDON LINE	12			414	368	-	-	451	497			48%	52%	948	14100	14100	6.7%	500	3.5%	500	1448	10.3%
TOTAL											55978	46180	47193	59038	71077	56012	58653	70914					256656	5773500	4317000	5.9%	297675	5.2%	227363	484019	
AVERAGE											1435	1399	1522	1789	1777	1697	1892	2149	51%	49%	47%	53%	2984	67134	50198	5.9%	3461	5.2%	2644	5628	11.2%