

# **Minneapolis Bicyclist & Pedestrian Count Report**

**In Conjunction with Transit and Auto Counts**



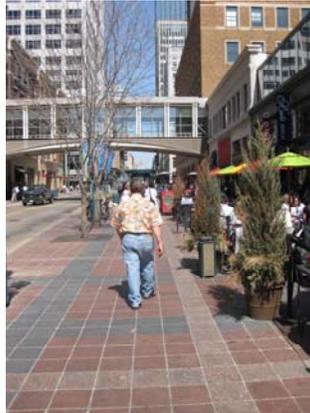
**Minneapolis Public Works Department  
August 7, 2009**

**For information requests or questions about this report, contact Shaun Murphy at 612-333-2450 or [shaun.murphy@ci.minneapolis.mn.us](mailto:shaun.murphy@ci.minneapolis.mn.us).**

## Summary:

In September 2007 and 2008, bicycle and pedestrian counts were conducted by Minneapolis Public Works in partnership with Transit for Livable Communities (TLC). The counts revealed the following major findings (described later in further detail, along with caveats):

- The number of **bicyclists counted at 30 locations increased by 15%** between 2007 and 2008.
- The number of **pedestrians counted at 27 locations increased by 3%** between 2007 and 2008.
- 15<sup>th</sup> Avenue SE north of 5<sup>th</sup> Street is the busiest location for biking among 128 count locations, with an estimated **3,570 bicyclists per day**.
- Washington Avenue SE west of Union Street is the busiest location for walking among 128 count locations, with an estimated **21,740 pedestrians per day**.
- East River Parkway north of Franklin Avenue carries the **highest bicyclist mode share (17%)**, among 65 count locations.
- Washington Avenue SE west of Union Street carries the **highest pedestrian mode share (32%)**, among 65 count locations.
- Bicycle riding on sidewalks or bike paths is **lowest on streets with on-street bike lanes (18%)**, and highest on streets with off-street bike paths (78%).



Additionally, the bicycle and pedestrian counts were augmented with transit and auto counts. Analysis of transit rider and motor vehicle data revealed the following major findings:

- Washington Avenue SE west of Union Street is the busiest location for transit amongst 65 count locations, with an estimated **20,210 transit riders per day**.
- 4<sup>th</sup> Street S east of 3<sup>rd</sup> Avenue carries the **highest transit mode share (46%)**, among 65 count locations.
- Washington Avenue SE west of Union Street carries the **lowest auto mode share (33%)**, among 65 count locations.

**Purpose:**

The purpose of this effort is fourfold:

- To understand the relative importance of various streets and trails for bicyclists and pedestrians.
- To understand the load that bicyclists and pedestrians carry on various streets, in comparison to motor vehicle occupants and transit riders.
- To understand the extent to which bicyclists use streets versus sidewalks.
- To measure the effects of improvements made to streets, with particular emphasis on projects funded through the Non-Motorized Transportation Pilot Program (NTP).

Improved understanding of the former three purposes can be gained in this report. Measurements of the latter purpose will come in future years as NTP projects are built.

**How the Counts Were Conducted:**

Most counts were conducted with human field observations where counters manually tabulated the number of bicyclists and pedestrians. In 2008, approximately 65 people assisted with this effort; in 2-hour shifts (some people also covered multiple 2-hour shifts). Additionally, Transit for Livable Communities recruited 31 volunteers to assist with their counts. Visit <http://www.tlcmnnesota.org/pdf/2008countreportmaps.pdf> to learn more about TLC's count effort.

In each location, an imaginary screen line was drawn across a street (including the sidewalks and/or bike paths). All bicyclists and pedestrians crossing that line were counted. If someone crossed the line multiple times, they were counted each time. This is similar to the method by which motor vehicles are counted.

At most locations, 2 hours worth of data was collected in the afternoon rush period, between 4:00 and 6:00 pm on a Tuesday, Wednesday, or Thursday. Twenty-four hour estimates were drawn by assuming that 20% of all bicycle traffic and 18% of all pedestrian traffic occurs from 4:00 to 6:00 pm. In other locations, 6 to 20 hours worth of data was collected throughout the day, and extrapolations were drawn from those time periods. For more details on the estimation methodology used, see Appendix A. The forms used by manual counters to record data are in Appendix B.

Unlike bicycle and pedestrian counts, motor vehicle counts are collected from April to October by using a rubber tube stretched across a street connected to an automated counter. Additionally, transit counts on local bus routes are conducted from June to August by using infrared beams at the front and rear doors of buses. Transit counts on express bus routes and LRT are conducted in October by using farebox data. See Section 3, *Traffic Share for all Transportation Modes at Select Locations*, for the relevance of motor vehicle and transit counts.

## Section 1: Percentage Change in Bicyclist & Pedestrian Traffic

The data tables which follow on pages 5 and 6 show changes in the volume of bicyclist and pedestrian traffic, comparing counts conducted in September 2007 and September 2008. Bicycling increased at 28 out of 30 locations, with an overall increase of 12%. Walking increased at 17 out of 27 locations, with an overall increase of 3%. These figures are generally consistent with the U.S. Census Bureau Journey to Work data (see <http://www.ci.minneapolis.mn.us/bicycles/Census2007Report.pdf>), which shows that biking is steadily increasing, while walking is somewhat stagnant in growth:

1990 to 2007 Means of Transportation to Work for Minneapolis Residents						
	1990	2000		2005	2006	2007
<b>Total:</b>	100.0%	100.0%		100.0%	100.0%	100.0%
Drove alone	60.3%	61.6%		62.4%	62.6%	61.1%
Carpooled	10.5%	11.3%		12.8%	9.3%	10.0%
Public transportation (excluding taxicab)	15.8%	14.4%		12.5%	13.2%	13.4%
<i>Bicycle</i>	1.6%	1.9%		2.4%	2.5%	3.8%
<i>Walked</i>	7.8%	6.6%		5.8%	7.1%	6.4%
Taxicab, motorcycle, or other means	0.9%	0.8%		1.1%	0.9%	0.5%
Worked at home	3.1%	3.4%		2.9%	4.5%	4.8%

**Source: U.S. Census Bureau, 1990 and 2000 Decennial Census, 2005 - 2007 American Community Survey**

The data table on page 7 shows change in the volume of bicyclists between 2003 and 2008. Bicycle counts increased at all 4 locations (the Midtown Greenway at Hennepin Avenue, the Hennepin Avenue Bridge over the Mississippi, the 3<sup>rd</sup> Avenue Bridge over the Mississippi, and the Stone Arch Bridge), with an overall increase of 174%.

### **Caveats:**

- Most 2008 counts were conducted on Tuesday, September 9<sup>th</sup> and Wednesday, September 10<sup>th</sup>. The weather on each day was the following:

Date	High	Low	Average Wind	Precipitation
9/9	69	45	5 mph	None
9/10	70	55	12 mph	None

- Most 2007 counts were conducted on Tuesday, September 11<sup>th</sup>, Wednesday, September 12<sup>th</sup>, Wednesday, September 26<sup>th</sup>, and Thursday, September 27<sup>th</sup>. The weather on each day was the following:

Date	High	Low	Average Wind	Precipitation
9/11	61	46	15 mph	None
9/12	67	41	7 mph	None
9/26	68	45	6 mph	0.28"
9/27	72	52	7 mph	None

- 2003 counts were conducted on Wednesday, September 10<sup>th</sup>. The weather was the following:

Date	High	Low	Average Wind	Precipitation
9/10	88	69	16 mph	Trace

## Change in Bicyclists between 2007 and 2008 at 30 Locations, sorted by Percentage Change

Number	Count Location	2007 Bicyclists*	2007 Date/s of Count	2008 Bicyclists*	2008 Date/s of Count	% Change, 2007 to 2008
15	Bridge 9 over Mississippi River	130	9/12/2007	440	9/10/2008	238%
32	Hiawatha LRT Trail E of 11th Ave	800	9/19/2007	2110	9/9/2008	164%
73	42nd St E of Minnehaha Ave	70	9/11/2007	180	9/9/2008	157%
22	Central Ave N of Lowry Ave	110	9/26/2007	280	9/9/2008	155%
20	Cedar Lake Trail E of Royalston Ave	510	9/19 & 9/26	1170	9/9/2008	129%
54	Riverside Ave over I-94	210	9/11 & 9/12	390	9/9/2008	86%
34	Loring Bikeway Bridge over Lyndale Ave	310	9/19/2007	500	9/10/2008	61%
42	Midtown Greenway E of Cedar Ave	1880	9/11 & 9/12	2860	9/9 & 9/10	52%
44	Midtown Greenway W of W River Pkwy	760	9/11 & 9/12	1100	9/9 & 9/10	45%
55	Stone Arch Bridge over Mississippi River	940	9/11/2007	1360	9/9, 16, 17	45%
31	Hennepin Ave N of 28th St	360	9/11/2007	520	9/9/2008	44%
10	2nd St S of Plymouth Ave	240	9/11/2007	330	9/9/2008	38%
26	Franklin Ave over Mississippi River	1050	9/12/2007	1440	9/9/2008	37%
30	Hennepin Ave over Mississippi River	1200	9/11/2007	1640	9/9/2009	37%
43	Midtown Greenway W of Hennepin Ave	2110	9/11 & 9/12	2860	9/9 & 9/10	36%
14	7th St N over I-94	90	9/11/2007	120	9/10/2008	33%
36	Loring Bikeway under I-94	910	9/19/2007	1170	9/10/2008	29%
33	Lake St over Mississippi River	1140	9/11 & 9/12	1450	9/10/2008	27%
112	Lyndale Ave N of Franklin Ave	570	9/12/2007	710	9/10/2008	25%
21	Cedar Lake Trail W of Kenilworth Trail	1010	9/12/2007	1220	9/10/2008	21%
49	Plymouth Ave over Mississippi River	290	9/12/2007	350	9/9/2008	21%
53	Riverside Ave E of Cedar Ave	540	9/11/2007	640	9/9/2008	19%
12	3rd Ave over Mississippi River	490	9/11/2007	580	9/9/2008	18%
19	Cedar Ave S of Riverside Ave	280	9/11/2007	330	9/9/2008	18%
1	10th Ave over Mississippi River	990	9/27/2007	1160	9/9/2008	17%
57	Washington Ave over I-35W	760	9/11 & 9/26	890	9/10/2008	17%
7	20th Ave S over I-94	1000	9/12/2007	1110	9/9/2008	11%
28	Glenwood Ave W of 12th St	200	9/19 & 9/26	210	9/9/2008	5%
4	15th Ave N of University Ave	3540	9/11/2007	2990	9/9/2008	-16%
6	1st St W of 3rd Ave S	280	9/11/2007	230	9/9/2008	-18%
<b>Total</b>		<b>26310</b>		<b>30340</b>		<b>15%</b>

\* With the exception of Midtown Greenway counts, figures represent 24 hour estimates, not the actual number of bicyclists counted.

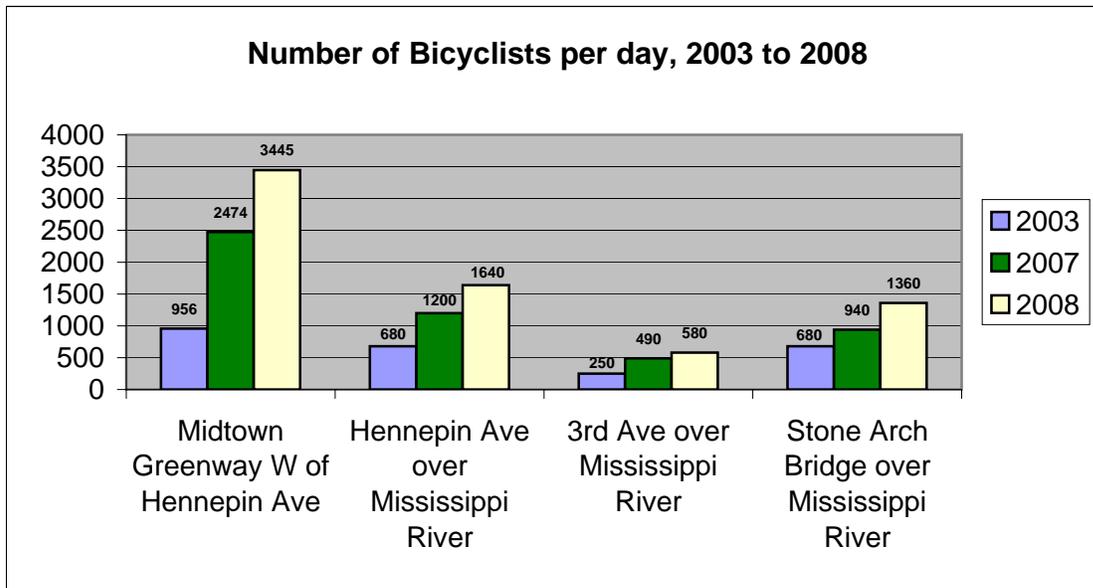
## Change in Pedestrians between 2007 and 2008 at 27 Locations, Sorted by Percentage Change

Number	Count Location	2007 Pedestrians*	2007 Date/s of Count	2008 Pedestrians*	2008 Date/s of Count	% Change, 2007 to 2008
73	42nd St E of Minnehaha Ave	50	9/11/2007	230	9/9/2008	360%
20	Cedar Lake Trail E of Royalston Ave	20	9/19 & 9/26	60	9/9/2008	200%
21	Cedar Lake Trail W of Kenilworth Trail	90	9/12/2007	260	9/10/2008	189%
54	Riverside Ave over I-94	140	9/11 & 9/12	320	9/9/2008	129%
22	Central Ave N of Lowry Ave	780	9/26/2007	1450	9/9/2008	86%
10	2nd St S of Plymouth Ave	70	9/11/2007	120	9/9/2008	71%
55	Stone Arch Bridge over Mississippi River	2120	9/11/2007	3330	multiple	57%
28	Glenwood Ave W of 12th St	320	9/19 & 9/26	420	9/9/2008	31%
26	Franklin Ave over Mississippi River	620	9/12/2007	790	9/9/2008	27%
15	Bridge 9 over Mississippi River	250	9/12/2007	310	9/10/2008	24%
12	3rd Ave over Mississippi River	690	9/11/2007	820	9/9/2008	19%
33	Lake St over Mississippi River	660	9/11 & 9/12	780	9/10/2008	18%
36	Loring Bikeway under I-94	520	9/19/2007	610	9/10/2008	17%
30	Hennepin Ave over Mississippi River	1560	9/11/2007	1770	9/9/2008	13%
6	1st St W of 3rd Ave S	410	9/11/2007	460	9/9/2008	12%
57	Washington Ave over I-35W	1030	9/11 & 9/26	1150	9/10/2008	12%
7	20th Ave S over I-94	830	9/12/2007	900	9/9/2008	8%
34	Loring Bikeway Bridge over Lyndale Ave	30	9/19/2007	30	9/10/2008	0%
53	Riverside Ave E of Cedar Ave	1320	9/11/2007	1220	9/9/2008	-8%
4	15th Ave N of University Ave	7830	9/11/2007	7170	9/9/2008	-8%
1	10th Ave over Mississippi River	940	9/27/2007	860	9/9/2008	-9%
19	Cedar Ave S of Riverside Ave	1300	9/11/2007	1120	9/9/2008	-14%
31	Hennepin Ave N of 28th St	2270	9/11/2007	1650	9/9/2008	-27%
49	Plymouth Ave over Mississippi River	720	9/12/2007	490	9/9/2008	-32%
32	Hiawatha LRT Trail E of 11th Ave	110	9/19/2007	70	9/9/2008	-36%
112	Lyndale Ave N of Franklin Ave	1930	9/12/2007	1030	9/10/2008	-47%
14	7th St N over I-94	160	9/11/2007	80	9/10/2008	-50%
<b>Total</b>		<b>26770</b>		<b>27500</b>		<b>3%</b>

\* Figures represent 24 hour estimates, not the actual number of pedestrians counted.

# Change in Bicyclists between 2003 and 2008 at 4 Locations, Sorted by Percentage Change\*

Number	Count Location	2003 Bicyclists	2007 Bicyclists	2008 Bicyclists	% Change, 2003 to 2008
43	Midtown Greenway W of Hennepin Ave	956	2474	3445	260%
30	Hennepin Ave over Mississippi River	680	1200	1640	141%
12	3rd Ave over Mississippi River	250	490	580	132%
55	Stone Arch Bridge over Mississippi River	680	940	1360	100%
<b>Total</b>		<b>2566</b>	<b>5104</b>	<b>7025</b>	<b>174%</b>



\* The 4 locations compared are those with counts conducted in 2003, 2007, and 2008. All counts took place in September with the exception of the Midtown Greenway, which was counted between May 30 and June 22. The Midtown Greenway existed only between Chowen and 5<sup>th</sup> Avenues in 2003.

## Section 2: Bicyclist & Pedestrian Estimated Daily Traffic (EDT)

The maps which follow on pages 9 and 10 show the significance of various streets and multi-use paths for bicyclists and pedestrians. Wider and darker lines indicate higher volumes. Supporting data is included at count location points. Data tables supporting these maps are included in Appendix C.

Similar maps for motor vehicles are included in Appendix D. A map for transit riders does not yet exist.

Out of the 128 locations counted, 15<sup>th</sup> Avenue SE north of 5<sup>th</sup> Street is the busiest location for biking, with an estimated **3,570** bicyclists per day. This location is followed by Washington Avenue SE west of Union Street (**3,350**), 15<sup>th</sup> Avenue SE north of University Avenue (**2,990**), the Midtown Greenway west of Hennepin Avenue (**2,860**), and the Midtown Greenway Sabo Bridge over Hiawatha Avenue (**2,800**).

Likewise out of the 128 locations counted, Washington Avenue SE west of Union Street is the busiest location for walking, with an estimated **21,740** pedestrians per day, followed by Nicollet Mall north of 7<sup>th</sup> Street (**17,890**), Nicollet Mall north of 12<sup>th</sup> Street (**9,700**), 15<sup>th</sup> Avenue SE north of University Avenue (**7,170**), and Hennepin Avenue north of 7<sup>th</sup> Street (**7,010**).

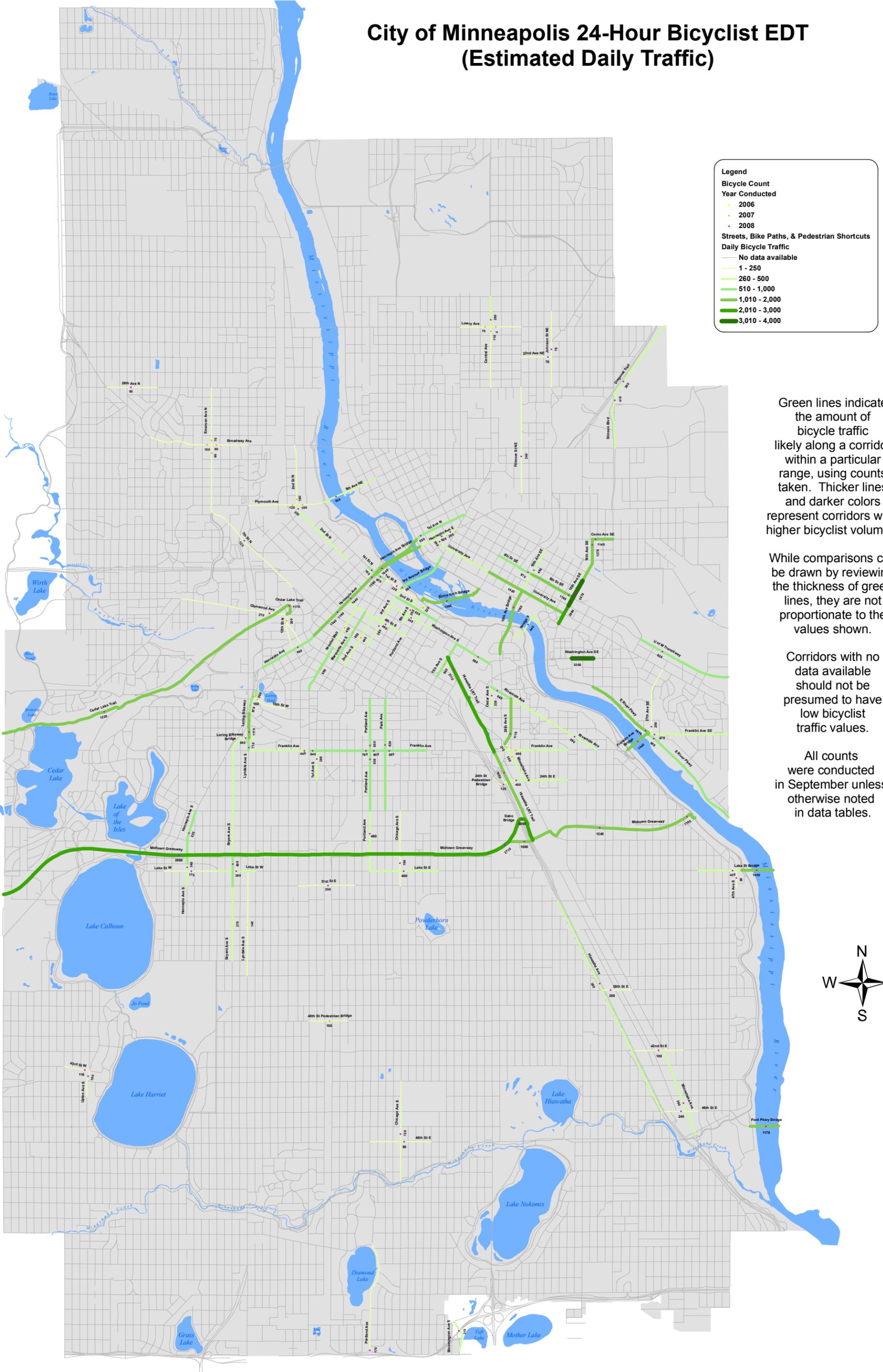
### **Caveat:**

- Assumptions were made about the geographic extent of bicycle and pedestrian counts along corridors, within stated ranges in the legend on each map. These assumptions were made using the anecdotal knowledge of the author. Assumptions on the pedestrian map were more conservative than the bicyclist map, since pedestrian trips tend to be shorter. Pedestrian activity is also centered on business nodes.



A volunteer counts bicyclists on the Loring Bikeway.

# City of Minneapolis 24-Hour Bicyclist EDT (Estimated Daily Traffic)



Green lines indicate the amount of bicycle traffic likely along a corridor within a particular range, using counts taken. Thicker lines and darker colors represent corridors with higher bicyclist volumes.

While comparisons can be drawn by reviewing the thickness of green lines, they are not proportionate to the values shown.

Corridors with no data available should not be presumed to have low bicyclist traffic values.

All counts were conducted in September unless otherwise noted in data tables.



# City of Minneapolis 24-Hour Pedestrian EDT (Estimated Daily Traffic)

**Legend**

**Pedestrian Count**  
**Year Conducted**  
 • 2007  
 • 2008

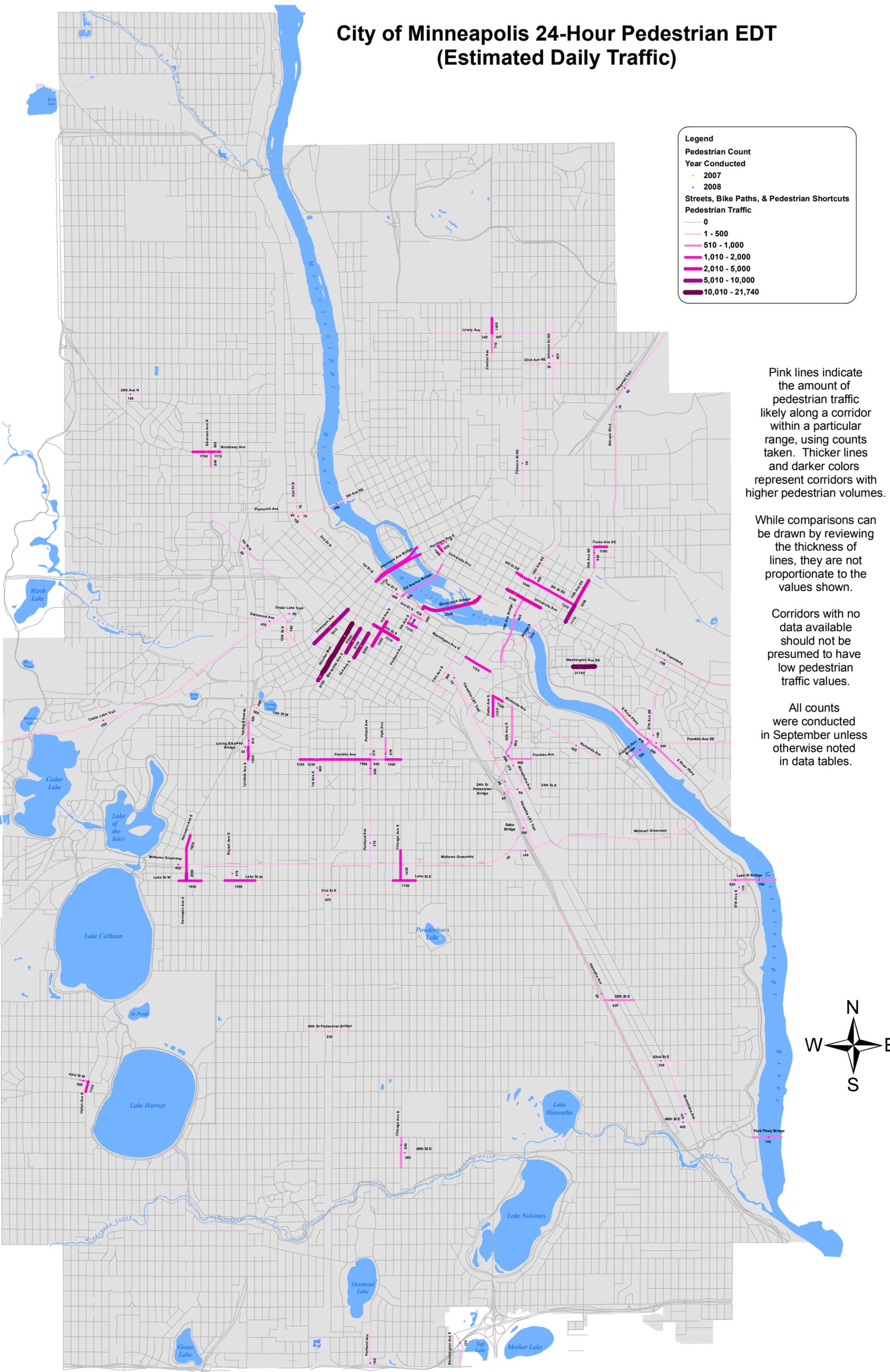
**Streets, Bike Paths, & Pedestrian Shortcuts**  
**Pedestrian Traffic**  
 — 0  
 — 1 - 500  
 — 510 - 1,000  
 — 1,010 - 2,000  
 — 2,010 - 5,000  
 — 5,010 - 10,000  
 — 10,010 - 21,740

Pink lines indicate the amount of pedestrian traffic likely along a corridor within a particular range, using counts taken. Thicker lines and darker colors represent corridors with higher pedestrian volumes.

While comparisons can be drawn by reviewing the thickness of lines, they are not proportionate to the values shown.

Corridors with no data available should not be presumed to have low pedestrian traffic values.

All counts were conducted in September unless otherwise noted in data tables.



### **Section 3:**

## **Traffic Share for all Transportation Modes at Select Locations**

The following data table and map on pages 12 and 13 shows the traffic share for all transportation modes at 65 select locations. The data table has been sorted by motor vehicle occupant percentage so that locations with greater significance for bicyclists, pedestrians, and transit riders rise to the top. Among count locations, Washington Avenue SE west of Union Street carried the **lowest proportion of motor vehicle occupants** (33%), followed by 4<sup>th</sup> Street S east of 3<sup>rd</sup> Avenue (40%), 2<sup>nd</sup> Avenue S north of 7<sup>th</sup> Street (43%), Marquette Avenue north of 7<sup>th</sup> Street (47%), and 1<sup>st</sup> Street S west of 3<sup>rd</sup> Avenue (52%).

Additionally, East River Parkway north of Franklin Avenue carries the **highest proportion of bicyclists** (17%), when compared to all other transportation modes, followed by 20<sup>th</sup> Avenue S over I-94 (14%), 15<sup>th</sup> Avenue SE north of 5<sup>th</sup> Street (13%), East River Parkway south of Franklin Avenue (12%), and Franklin Avenue over the Mississippi River (10%).

Washington Avenue SE west of Union Street carries the **highest proportion of pedestrians** (32%), when compared to all other transportation modes, followed by 2<sup>nd</sup> Avenue S north of 7<sup>th</sup> Street (25%), Marquette Avenue north of 7<sup>th</sup> Street (23%), Hennepin Avenue north of 7<sup>th</sup> Street (21%), and Upton Avenue S south of 43<sup>rd</sup> Street (18%).

4<sup>th</sup> Street S east of 3<sup>rd</sup> Avenue carries the **highest proportion of transit riders** (46%), when compared to all other transportation modes, followed by 1<sup>st</sup> Street S west of 3<sup>rd</sup> Avenue (45%), 7<sup>th</sup> Street N over I-94 (33%), Hiawatha Avenue north of 38<sup>th</sup> Street (32%), and 3<sup>rd</sup> Avenue over the Mississippi River (31%).

*Appendix E contains five additional data tables, sorted by bicyclist, pedestrian, and transit rider proportions, as well as tables sorted alphabetically and by count location number. For information on the methodology used to collect auto and transit counts, see page three.*

#### **Caveats:**

- Motor vehicle occupants were determined by multiplying the figures in Appendix D (the City's motor vehicle count map) by 1.26. This was the average auto occupancy determined during a cordon count conducted in the downtown area in 2003.
- Motor vehicle counts indicate 2004 and 2005 figures. 2006 and 2007 figures were not used because of the Interstate 35W Bridge collapse (August 1, 2007), and the resulting increases in motor vehicle traffic on Minneapolis streets.
- In some instances, motor vehicle counts were not available at the precise location indicated. However data from within 2-3 blocks was available and used as a substitute, when it could be assumed that motor vehicle volumes along a short stretch were not subject drastic changes.

## Traffic Share for All Transportation Modes at Select Locations, Sorted by Ascending Motor Vehicle Occupant Percentage (%)

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.6%	0	0.0%	4590
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

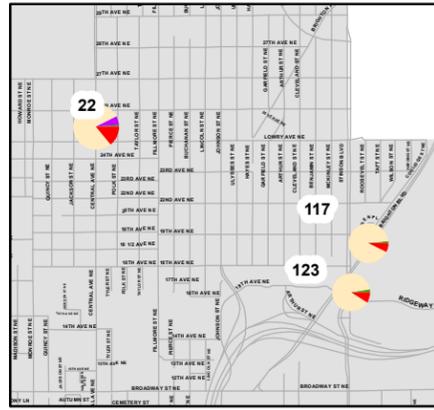
Pink indicates high values in each column; blue indicates low values in each column.

# Traffic Share for all Transportation Modes at Select Locations

Penn & 26th

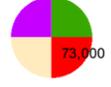


Northeast



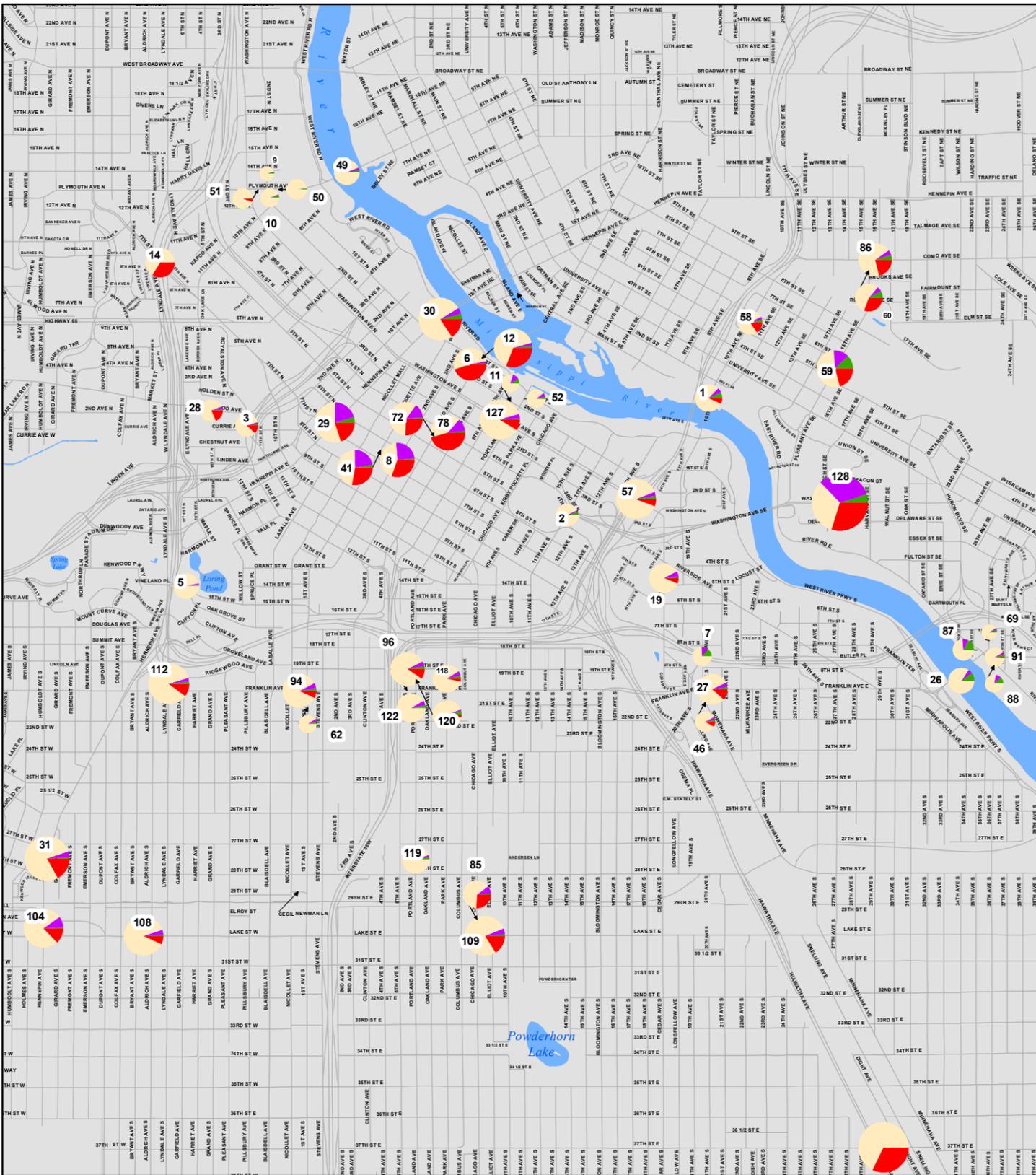
**Legend**

Sum of Fields



- Bicyclists
- Pedestrians
- Motor Vehicle Occupants
- Transit Riders

Central Minneapolis



Each pie chart represents the proportion of traffic at select locations where counts are available for all transportation modes. Proportions indicate the number of people moved by each mode of transportation, not the number of vehicles.

Numbers identifying each location correspond with those on the accompanying data table.

Bicycle and pedestrian counts are estimated using manual counts conducted by volunteers. Motor vehicle counts are conducted by Public Works staff using automated counters. Transit rider counts are collected by Metro Transit.

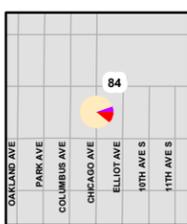
Bicyclist and pedestrian counts are conducted such that each person is counted (e.g. tandem bicyclists are counted as 2 rather than 1, an adult carrying a child is counted as 2 rather than 1).

Motor vehicle counts are conducted such that occupancy per vehicle is undetermined. A Downtown Cordon Count conducted in 2003 estimated that each motor vehicle carried 1.26 occupants. As a result, motor vehicle counts assume that all locations have 1.26 occupants per vehicle. Additionally, motor vehicle counts include buses carrying transit riders. On most transit routes the number of buses is less than 300 per day, which results in a minor skewing of figures in favor of motor vehicle occupants.

Linden Hills



Chicago & 48th



Southeast Quadrant



Lake St Bridge



Southern Border



## Section 4: Bicycle Riding on Sidewalks or Bike Paths versus Streets

The data table on page 15 shows the percentage of bicyclists riding on sidewalks or bike paths versus streets. The type of bicycle facility is also included. Bicycle facilities were split into four categories: 1) Off-Street Bike Path, 2) On-Street Bike Lane, 3) Combined, or 4) None.

Additionally, the “none” category was split into 3 sub-categories: a) High Motor Vehicle Traffic (greater than 15,000 per day), b) Moderate Motor Vehicle Traffic (5,000 to 15,000 per day), and c) Low Motor Vehicle Traffic (less than 5,000 per day). Motor vehicle traffic counts are taken from the years 2004 and 2005.

The results show that, on average, sidewalk or bike path riding is highest where off-street bicycle paths are provided. Meanwhile, sidewalk riding is lowest where on-street bike lanes are provided. The level of motor vehicle traffic is also correlated with the percentage of cyclists riding on sidewalks (higher motor vehicle traffic tends toward higher percentages of sidewalk riding, and lower motor vehicle traffic tends toward lower percentages of sidewalk riding).

Legally speaking, state law prohibits bicyclists from riding on sidewalks in business districts unless posted otherwise. Business districts are defined as a block where more than 50% of the buildings are in use for business. In other locations it is legal for a bicyclist to ride on the sidewalk, unless again, it has been posted otherwise. Minnesota does not have a mandatory side path law. Therefore, it is legal to ride on the street where an adjacent bike path is provided.

% of Bicyclists Riding on Sidewalk or Bike Path	Type of Bicycle Facility
78%	Off-Street Bike Path
55%	Combined Bicycle Facilities (On- and off-street)
39%	No Bicycle Facility - High Motor Vehicle Traffic
33%	No Bicycle Facility - Moderate Motor Vehicle Traffic
28%	No Bicycle Facility - Low Motor Vehicle Traffic
18%	On-Street Bike Lane

### **Caveats:**

- A sidewalk is defined as a paved facility which is designed exclusively to carry pedestrians (off-limits to motor vehicles). Facility design is generally narrower than 8 feet. As a rule, a sidewalk does not have bicycle signage or markings, although some sidewalks are legal and practical for bicyclists to use.
- A bicycle path is defined as a paved or natural surface facility designed exclusively to carry bicyclists and pedestrians (off-limits to motor vehicles). Design includes facilities 8 feet or wider in length, with some locations narrower due to physical constraints.
- An on-street bicycle lane is defined as an area on the street surface with pavement markings to delineate use for bicycling. Design includes only facilities 4 feet or wider in length, with some exceptions narrower due to physical constraints.

## Data Table for Bicyclists Riding on Sidewalks or Bike Paths, Sorted by Type of Bicycle Facility

Location Number	Count Location	Percentage of Bicyclists Riding on Sidewalk	Type of Bicycle Facility
105	Hiawatha Ave N of 38th St	91%	Off Street Bike Path (Concrete)
117	New Brighton Blvd E of Stinson Blvd	90%	Off Street Bike Path
123	Stinson Blvd S of New Brighton Blvd	81%	Off Street Bike Path
87	E River Pkwy N of Franklin Ave	74%	Off Street Bike Path
30	Hennepin Ave over Mississippi River	73%	Off Street Bike Path (Concrete)
125	U of M Transitway E of 25th Ave	56%	Off Street Bike Path
	<b>Average</b>	<b>78%</b>	<b>Off Street Bike Path</b>
12	3rd Ave over Mississippi River	77%	Combined (Wide Sidewalk, Shoulder)
80	5th St W of 10th Ave SE	32%	Combined (On Street Bike Lane, Merging Off Street Pedestrian Bridge)
	<b>Average</b>	<b>55%</b>	<b>Combined</b>
128	Washington Ave W of Union St	63%	None - High Motor Vehicle Traffic
109	Lake St E of Chicago Ave	56%	None - High Motor Vehicle Traffic
92	Franklin Ave E of Park Ave	48%	None - High Motor Vehicle Traffic
57	Washington Ave over I-35W	44%	None - High Motor Vehicle Traffic
127	Washington Ave E of 5th Ave S	41%	None - High Motor Vehicle Traffic
96	Franklin Ave W of Portland Ave	40%	None - High Motor Vehicle Traffic
104	Hennepin Ave N of Lake St	27%	None - High Motor Vehicle Traffic
108	Lake St E of Bryant Ave	26%	None - High Motor Vehicle Traffic
93	Franklin Ave E of Portland Ave	25%	None - High Motor Vehicle Traffic
107	Johnson St N of 22nd Ave	23%	None - High Motor Vehicle Traffic
	<b>Average</b>	<b>39%</b>	<b>None - High Motor Vehicle Traffic*</b>
75	46th St W of Minnehaha Ave	77%	None - Moderate Motor Vehicle Traffic
70	31st St under I-35W	62%	None - Moderate Motor Vehicle Traffic
85	Chicago Ave N of Lake St	53%	None - Moderate Motor Vehicle Traffic
28	Glenwood Ave W of 12th St	51%	None - Moderate Motor Vehicle Traffic
58	10th Ave N of 5th St SE	40%	None - Moderate Motor Vehicle Traffic
71	38th St E of Hiawatha Ave	31%	None - Moderate Motor Vehicle Traffic
110	Lake St E of Hennepin Ave	27%	None - Moderate Motor Vehicle Traffic
86	Como Ave E of 15th Ave	26%	None - Moderate Motor Vehicle Traffic
84	Chicago Ave N of 48th St	25%	None - Moderate Motor Vehicle Traffic
124	University Ave E of Hennepin Ave	23%	None - Moderate Motor Vehicle Traffic
6	1st St W of 3rd Ave S	22%	None - Moderate Motor Vehicle Traffic
19	Cedar Ave S of Riverside Ave	22%	None - Moderate Motor Vehicle Traffic
53	Riverside Ave E of Cedar Ave	22%	None - Moderate Motor Vehicle Traffic
72	3rd Ave S of 4th St S	17%	None - Moderate Motor Vehicle Traffic
60	15th Ave S of Como Ave	16%	None - Moderate Motor Vehicle Traffic
98	Hennepin Ave E of University Ave	13%	None - Moderate Motor Vehicle Traffic
	<b>Average</b>	<b>33%</b>	<b>None - Moderate Motor Vehicle Traffic*</b>
74	43rd St W of Upton Ave	43%	None - Low Motor Vehicle Traffic
65	22nd Ave W of Johnson St	36%	None - Low Motor Vehicle Traffic
69	27th Ave N of Franklin Ave SE	36%	None - Low Motor Vehicle Traffic
77	48th St E of Chicago Ave	31%	None - Low Motor Vehicle Traffic
76	47th Ave S of Lake St	29%	None - Low Motor Vehicle Traffic
126	Upton Ave S of 43rd St	24%	None - Low Motor Vehicle Traffic
79	5th Ave N of Washington Ave S	23%	None - Low Motor Vehicle Traffic
81	5th St W of 15th Ave SE	23%	None - Low Motor Vehicle Traffic
83	Bryant Ave N of Lake St	4%	None - Low Motor Vehicle Traffic
	<b>Average</b>	<b>28%</b>	<b>None - Low Motor Vehicle Traffic*</b>
116	Minnehaha Ave N of 46th St	29%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
118	Park Ave N of Franklin Ave	23%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
120	Portland Ave N of Franklin Ave	15%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
122	Portland Ave S of Franklin Ave	15%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
78	4th St E of 3rd Ave S	13%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
59	15th Ave N of 5th St SE	11%	On Street Bike Lane (Moderate Motor Vehicle Traffic)
	<b>Average</b>	<b>18%</b>	<b>On Street Bike Lane</b>

**\*High Motor Vehicle Traffic = Greater than 15,000 per day; Moderate MV Traffic = 5,000 to 15,000 per day; Low MV Traffic = Less than 5,000 per day**

## **Appendix A:**

### **Need for Estimations:**

The need for 24-hour estimations of bicyclists and pedestrians is twofold.

- Comparisons between motorized and non-motorized traffic can be drawn. Existing motor vehicle data (commonly referred to as ADT or Average Daily Traffic) is measured in 24-hour periods. Two days worth of 24-hour data is typically collected using pressurized, rubber hoses attached to a mechanized counting device. These 2-day totals are then averaged. See the maps in Appendix D for motor vehicle ADT in Minneapolis.
- Bicycle and pedestrian counts require manual human counting. So far these counts have not been mechanized in a readily useable and acceptable format (see the Midtown Greenway exception below). The limited nature of human availability for this task, particularly during the nighttime hours, requires estimation formulas.



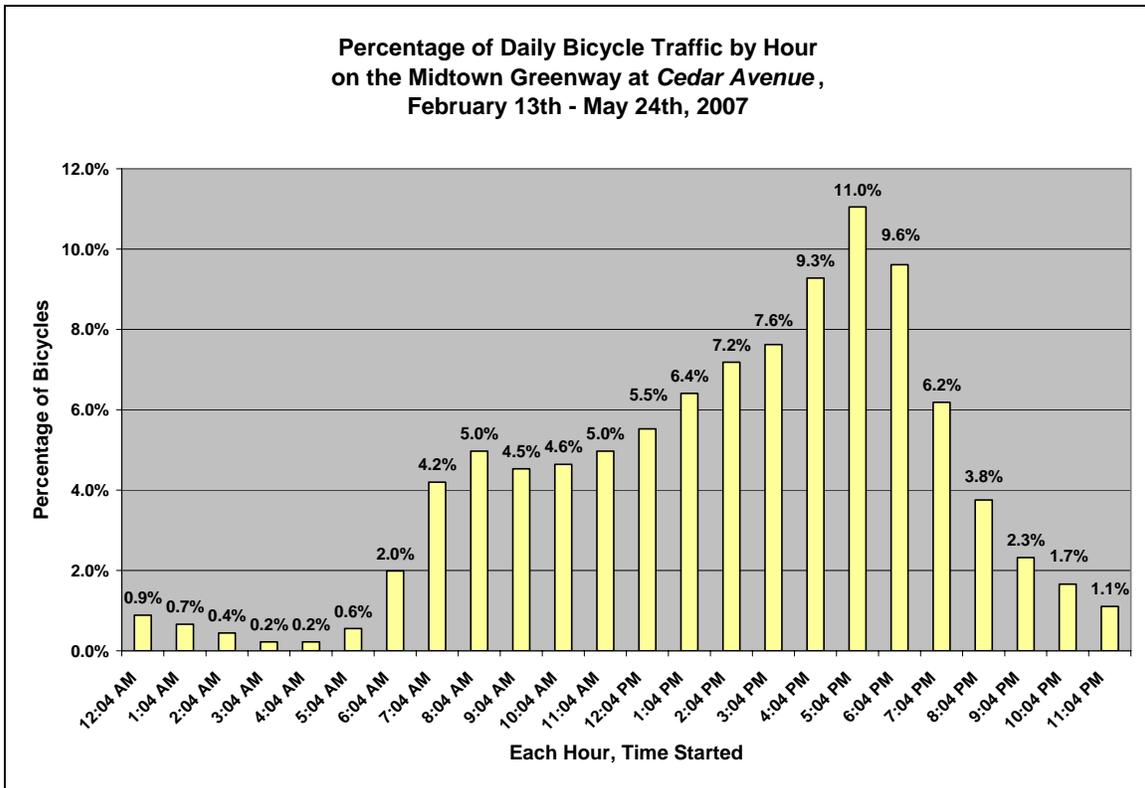
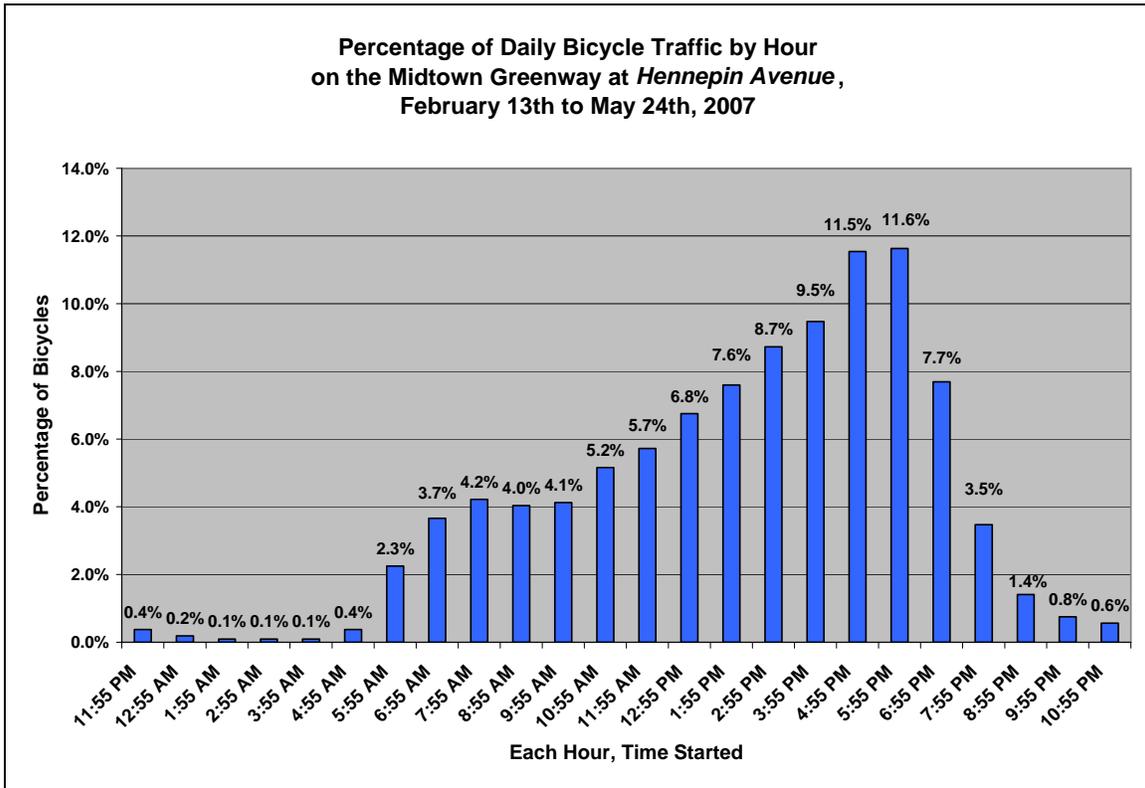
A volunteer counts pedestrians on 4<sup>th</sup> Street S.

### **24-Hour Counts on the Midtown Greenway:**

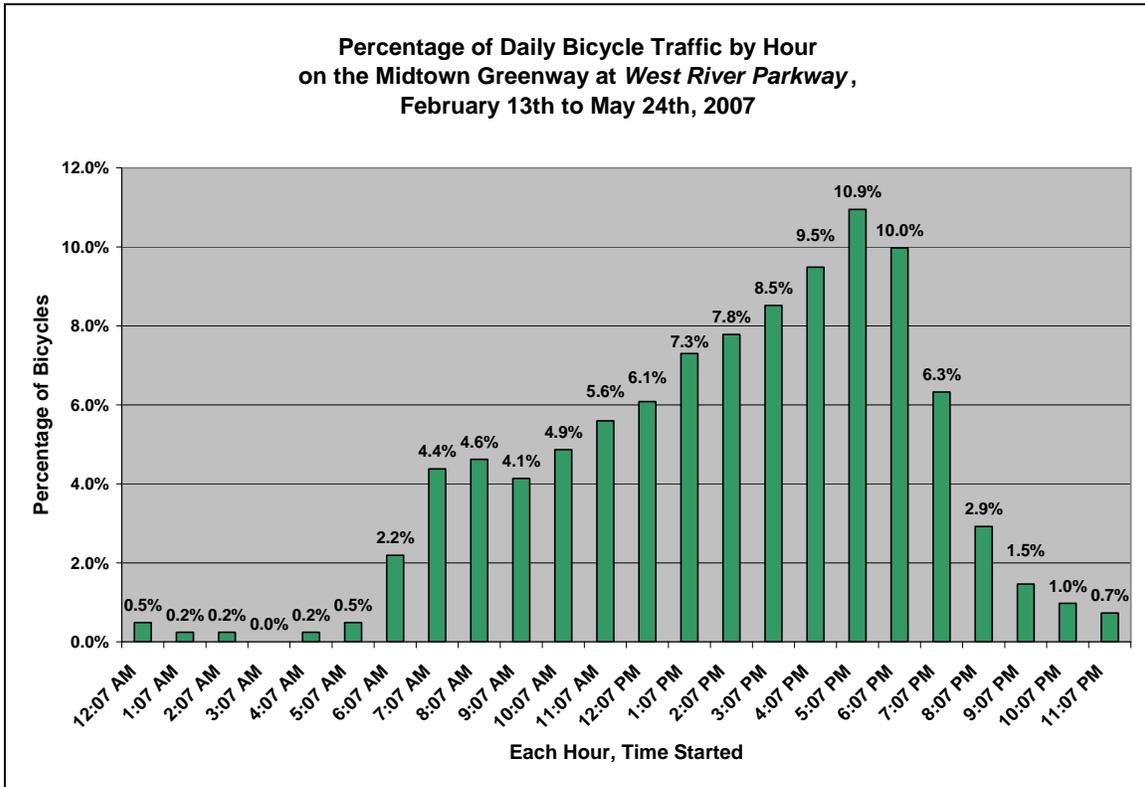
24-hour count data is available for bicycling at three locations along the Midtown Greenway. An automatic counter at each location is connected to underground metal detectors in the bicycle lanes. Because the Midtown Greenway has higher rates of recreational riding than a typical street, these figures were not assumed to estimate 24-hour bicycling traffic on typical city streets, nor were they used to estimate 24-hour pedestrian traffic. Additionally, error rates for the automatic counters have also not been determined.

In spite of these caveats, the charts and data tables on the following two pages indicate hourly traffic rates for bicyclists.

**Appendix A (cont.):**



**Appendix A (cont.):**



<b><i>Midtown Greenway</i></b>	<b>12-Hour Period*</b>	<b>%</b>	<b>2-Hour Period*</b>	<b>%</b>
<b>Hennepin Avenue</b>	6:25 am to 6:25 pm	78.4%	3:55 pm to 5:55 pm	21.0%
<b>Cedar Avenue</b>	6:34 am to 6:34 pm	76.7%	4:04 pm to 6:04 pm	20.3%
<b>West River Parkway</b>	6:37 am to 6:37 pm	80.7%	4:07 pm to 6:07 pm	20.5%

\*The 12-hour and 2-hour periods in this data table are most closely approximated to the 6:30 am to 6:30 pm and 4:00 pm to 6:00 pm time periods, referenced on the following pages.

## **Appendix A (cont.):**

### **Estimation Methodology:**

In order to estimate the complete 24-hour period, two assumptions were used:

1. *75% of bicycle and pedestrian traffic occurs between 6:30 am and 6:30 pm.*
2. *20% of bicycle traffic and 18% of pedestrian traffic occurs between 4:00 pm and 6:00 pm.*

**Assumption #1:** The 75% figure in the first assumption originates from Robert Seyfried, Director of Transportation Safety at the Northwestern University Center for Public Safety, and is based upon motor vehicle traffic between 7:00 am and 7:00 pm.<sup>1</sup>

The applicability of this figure to bicycle and pedestrian counts is under continued investigation for two reasons:

- The differences between motorized and non-motorized traffic patterns over the course of the day are unknown. Presumably they are minor but measurable. For example, it is possible that bicycle or pedestrian traffic during nighttime hours is lower than motor vehicle traffic, because of concerns over safety and visibility.
- Because the 7:00 am to 7:00 pm period does not match the 6:30 am to 6:30 pm time frame, the assumption is inherently flawed. 6:30 am to 6:30 pm has been the traditional period to conduct manual counts in Minneapolis, since the downtown manual cordon count began in the 1960s. Traffic movements are greater between 6:30 pm and 7:00 pm when compared to 6:30 am and 7:00 am (see the Midtown Greenway charts on the previous pages for an example of this phenomenon). As a result, it is likely that the 75% figure from Robert Seyfried would be lower if it encompassed the morning half hour instead of the evening half hour.

**Assumption #2:** The 20% bicycle and 18% pedestrian figures originate from an analysis of the 27 - 12 hour count locations (see the following pages for supporting data).

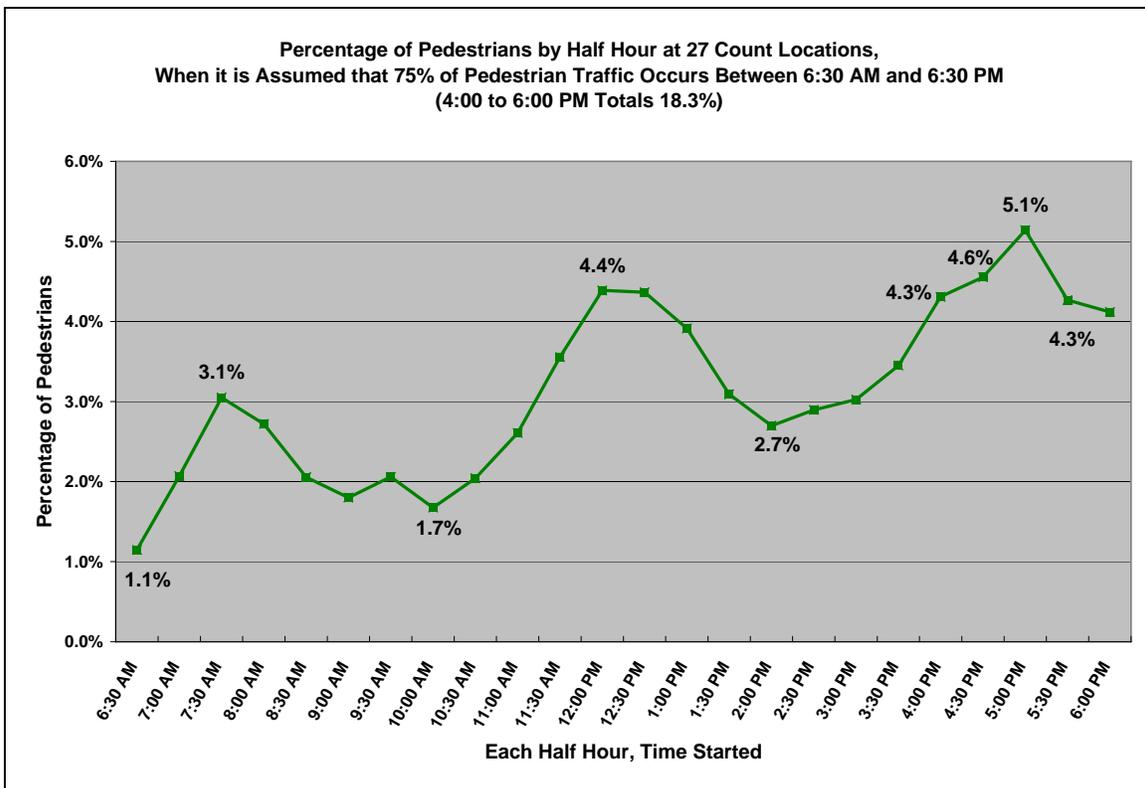
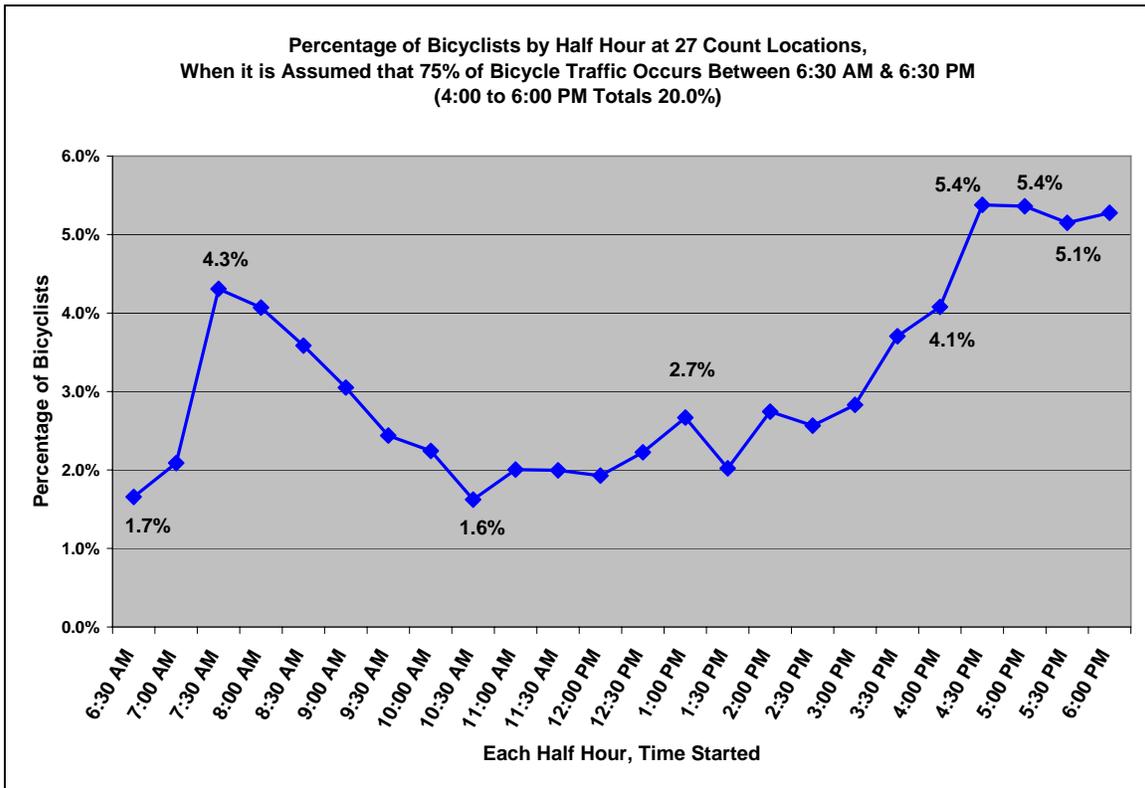
The most common time period measured in non-motorized travel is 4:00 to 6:00 pm (commonly referred to as the *peak travel period*). Transit for Livable Communities began conducting peak travel period counts in Minneapolis in 2007, and the Public Works Department followed suit in 2008. The majority of the available bicycle and pedestrian counts in Minneapolis have been conducted from 4:00 to 6:00 pm.

Both charts on the next page label the peaks and valleys during the 12-hour period, as well as each half hour during the 4:00 to 6:00 pm peak travel period.

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<sup>1</sup> Fundamentals of Traffic Engineering, University of California, 2007

## Appendix A (cont.):



## Appendix A (cont.):

This table provides supporting data for the charts on the previous page:

<b>Time Period Beginning at:</b>	<b>Bicyclist Percentage</b>	<b>4:00 to 6:00 pm Period for Bicyclists</b>	<b>Pedestrian Percentage</b>	<b>4:00 to 6:00 pm Period for Pedestrians</b>
6:30 AM	1.7%		1.1%	
7:00 AM	2.1%		2.1%	
7:30 AM	4.3%		3.1%	
8:00 AM	4.1%		2.7%	
8:30 AM	3.6%		2.1%	
9:00 AM	3.1%		1.8%	
9:30 AM	2.4%		2.1%	
10:00 AM	2.2%		1.7%	
10:30 AM	1.6%		2.0%	
11:00 AM	2.0%		2.6%	
11:30 AM	2.0%		3.6%	
12:00 PM	1.9%		4.4%	
12:30 PM	2.2%		4.4%	
1:00 PM	2.7%		3.9%	
1:30 PM	2.0%		3.1%	
2:00 PM	2.7%		2.7%	
2:30 PM	2.6%		2.9%	
3:00 PM	2.8%		3.0%	
3:30 PM	3.7%		3.5%	
<b>4:00 PM</b>	<b>4.1%</b>		<b>4.3%</b>	
<b>4:30 PM</b>	<b>5.4%</b>		<b>4.6%</b>	
<b>5:00 PM</b>	<b>5.4%</b>		<b>5.1%</b>	
<b>5:30 PM</b>	<b>5.1%</b>	<b>20.0%</b>	<b>4.3%</b>	<b>18.3%</b>
6:00 PM	5.3%		4.1%	
<b>6:30 AM to 6:30 PM Total</b>	<b>75.0%</b>		<b>75.0%</b>	

## **Appendix A (cont.):**

In addition to the previously stated assumptions, the use of the 4:00 to 6:00 pm, 20% bicycle and 18% pedestrian figures has two major weaknesses.

The first is the wide range of actual 4:00 to 6:00 pm percentages, amongst the 27 – 12 hour count locations. For bicyclists, these range from 5% to 27%, and for pedestrians the range is 8% to 25%. The extremes in each case have a tendency to occur in locations where the total number of bicyclists or pedestrians is low.

<b>Location</b>	<b>Number of Bicyclists Counted from 4 to 6 pm</b>	<b>Percentage that the 4 to 6 pm Period Represents of the 24 Hour Estimate</b>	<b>Number of Pedestrians Counted from 4 to 6 pm</b>
<b>Lowry Avenue west of Central Avenue</b>	3 ( <i>Average - 87</i> )	5%	
<b>Emerson Avenue N south of Broadway Avenue</b>	17 ( <i>Average - 87</i> )	27%	
<b>Loring Bikeway Bridge over Lyndale Avenue S</b>		8%	2 ( <i>Average – 379</i> )
<b>Cedar Avenue south of Riverside Avenue</b>		25%	285 ( <i>Average – 379</i> )

The average number of bicyclists counted from 4:00 to 6:00 pm at the 27 locations was 87, and the average number of pedestrians counted was 379 (noted in the table above).

**Appendix A (cont.):**

The second weakness is that locations with a higher number of total bicyclists or pedestrians tend to have an unequal influence on the peak travel period percentage for all 27 locations. If evenly matched, each location's 4:00 to 6:00 pm period would represent 3.7% of the total.

Location	Number of Bicyclists Counted from 4 to 6 pm	Percentage that each Location Represents of All Locations Counted During the 4 to 6 pm Period	Number of Pedestrians Counted from 4 to 6 pm
Hennepin Avenue north of 7 <sup>th</sup> Street N	327 (total 2,350)	14%	
Hennepin Avenue over the Mississippi River	234 (total 2,350)	10%	
-----	-----	-----	-----
Nicollet Mall north of 7 <sup>th</sup> Street		31%	3,191 (total 10,236)
2 <sup>nd</sup> Avenue S north of 7 <sup>th</sup> Street		13%	1,320 (total 10,236)

The total number of bicyclists counted from 4:00 to 6:00 pm at the 27 locations was 2,350, and the total number of pedestrians counted was 10,236 (noted in the table above).

This point on unequal influence is further illustrated in the following table. Note that these locations tend to be identical or nearly identical with the overall average.

Location	Percentage that the 4 to 6 pm Period Represents for Bicyclists at <i>This Location</i>	Percentage that the 4 to 6 pm Period Represents for <i>all 27 Locations</i>	Percentage that the 4 to 6 pm Period Represents for Pedestrians <i>This Location</i>
Hennepin Avenue north of 7 <sup>th</sup> Street N	21%	20%	
Hennepin Avenue over the Mississippi River	20%	20%	
-----	-----	-----	-----
Nicollet Mall north of 7 <sup>th</sup> Street		18%	18%
2 <sup>nd</sup> Avenue S north of 7 <sup>th</sup> Street		18%	21%

**APPENDIX B: PUBLIC WORKS STANDARDIZED BIKE/PED COUNT FORM – MINNEAPOLIS  
PUBLIC WORKS, SEPT. 2008**

Name: \_\_\_\_\_ Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time Period: See First Column Below.

Instructions:

- Please fill in your name, count location, date, and time period. If you arrive late, please write down the exact time you began counting.
- Use tally marks in groups of five to indicate each pedestrian or cyclist (4 = ||||, 5 = |||||). Or if you are using a counter, write the total in each box.
- Count all of the cyclists and pedestrians crossing your screen line (both sides of street or trail, and both directions).
- Only count more than one street or trail if you have received instructions to do so. Refer to the map on the back of this sheet.
- This last instruction does not apply to trail counts: If you have time, record the number of cyclists that are riding on the sidewalk instead of the street. This will help us determine crash rates for bicyclists riding on the sidewalk versus the street. If you are not able to consistently count sidewalk riders, please mark out this column for the sake of accuracy.

Period (30 minutes)	Bicyclists*	Sidewalk Riding	Pedestrians**		Other***
:00 - :30					
:30 - :00					
:00 - :30					
:30 - :00					
<b>Total</b>					

\*Count the number of people, rather than the number of bicycles (Tandem = 2, Burley w/ two children = 3).

\*\*Those using wheelchairs and electric scooters should be counted as pedestrians. Children being carried or pushed should also be counted as pedestrians.

\*\*\*Other includes skaters, roller-bladers, boarders, skiers, and people on segways.

Comments/observations: (close calls, conflicts, unlawful behavior, and/or describe any factors that may have affected your count - car accident at site, road construction, tour group, band practice, other large event, etc.):

**APPENDIX B (CONT.): TLC STANDARDIZED BIKE/PED COUNT FORM – TWIN CITIES, FALL 2008**

Name: \_\_\_\_\_ Location: \_\_\_\_\_ Site# \_\_\_\_\_

Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather: \_\_\_\_\_

**Instructions:**

- Please fill in your name, count location, date, time period, and weather (approx. temp and conditions: sunny, rainy, foggy, snow, etc.)
- Use single lines in groups of five to indicate each pedestrian or cyclist (4 = |||| , 5 = |||||).
- Count all adult cyclist and pedestrians crossing your screen line (both sides of street or trail) under the male or female categories. Count children (under 16) separately under “Child”.
- Do not count more than one street or trail. **THIS IS NOT AN INTERSECTION COUNT.**
- If you have time, record number of cyclists that are riding on sidewalk instead of street.

Period (minutes)	Adult Bicyclist		Child	Sidewalk
	Male	Female		
4:00 - 4:15				
4:15 - 4:30				
4:30 - 4:45				
4:45 - 5:00				
5:00 - 5:15				
5:15 - 5:30				
5:30 - 5:45				
5:45 - 6:00				
<b>Total</b>				

Pedestrian*		Child
Male	Female	

\*Record skaters, roller-bladers, boarders and skiers using an “s” in the Pedestrian column.

Comments/observations: close calls, conflicts, unlawful behavior, and/or describe any factors that may have affected your count (car accident at site, road construction, tour group, band practice, etc.)

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## Appendix C: Bicyclist and Pedestrian Data for all Count Locations, Sorted Alphabetically by Count Location

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
58	10th Ave N of 5th St SE	September 10, 2008	PW	2	91	460	89	490
1	10th Ave over Mississippi River	September 9, 2008	TLC	2	232	1160	154	860
2	11th Ave S of Hiawatha LRT Trail	September 19, 2007	PW	11	345	540	200	300
3	12th St S of Glenwood Ave	September 19 & 26, 2007	PW	11	173	250	180	260
59	15th Ave N of 5th St SE	September 9 & 17, 2008	PW	8	1846	3570	2056	3830
4	15th Ave N of University Ave	September 9, 2008	TLC	2	598	2990	1290	7170
60	15th Ave S of Como Ave	September 10, 2008	PW	2	254	1270	170	940
5	15th St E of Hennepin/Lyndale Aves	September 19 & 26, 2007	PW	10	98	160	229	360
61	1st Ave E of Main St NE	August 19 & 20, 2008	PW	13	433	550	n/a	n/a
62	1st Ave S of Franklin Ave	September 9, 2008	PW	2	44	260	57	400
63	1st St E of Hennepin Ave	August 19 & 20, 2008	PW	11	431	630	n/a	n/a
6	1st St W of 3rd Ave S	September 9, 2008	PW	2	46	230	83	460
64	1st St W of Hennepin Ave	August 19 & 20, 2008	PW	11	473	700	n/a	n/a
7	20th Ave S over I-94	September 9, 2008	TLC	2	221	1110	162	900
65	22nd Ave W of Johnson St	September 9, 2008	PW	2	14	70	6	30
66	24th St E of Hiawatha LRT Trail	September 9 & 10, 2008	PW	12	279	400	66	90
67	24th St Pedestrian Bridge over Hiawatha Ave	September 9 & 10, 2008	PW	12	82	120	40	60
68	26th Ave E of Penn Ave	September 10, 2008	TLC	2	10	50	28	160
69	27th Ave N of Franklin Ave SE	September 10, 2008	PW	2	50	250	33	180
8	2nd Ave N of 7th St S	September 11, 2007	PW	12	329	440	4692	6260
9	2nd St N of Plymouth Ave	September 11, 2007	PW & TLC	11.5	113	160	46	70
10	2nd St S of Plymouth Ave	September 9, 2008	TLC	2	65	330	21	120
11	2nd St W of Portland Ave	September 11, 2007	PW	12	397	530	620	830
70	31st St under I-35W *	September 10 & 11, 2008	PW	2	49	250	76	420
71	38th St E of Hiawatha Ave	September 9, 2008	PW	20	237	250	611	630
12	3rd Ave over Mississippi River	September 9, 2008	PW	2	116	580	147	820
72	3rd Ave S of 4th St S	September 9 & 10, 2008	PW	13.5	274	360	2255	3240
13	40th St Pedestrian Bridge over I-35W	September 12, 2007	TLC	2	29	150	41	230
73	42nd St E of Minnehaha Ave	September 9, 2008	TLC	2	36	180	42	230
74	43rd St W of Upton Ave	September 10, 2008	PW	2	21	110	153	850
75	46th St W of Minnehaha Ave	September 9, 2008	PW	2	48	240	75	420
76	47th Ave S of Lake St	September 10, 2008	PW	2	17	90	19	110
77	48th St E of Chicago Ave	September 9, 2008	PW	2	16	80	65	360
78	4th St E of 3rd Ave S	September 9 & 10, 2008	PW	13	352	490	2155	3110
79	5th Ave N of Washington Ave S	September 10, 2008	PW	2	52	260	170	940
80	5th St W of 10th Ave SE	September 10, 2008	PW	2	194	970	187	1040
81	5th St W of 15th Ave SE	September 9, 2008	PW	5	280	1190	440	1370
14	7th St N over I-94	September 10, 2008	TLC	2	23	120	15	80
82	Bloomington Ave over Hwy 62	September 9, 2008	TLC	2	61	310	22	120
15	Bridge 9 over Mississippi River	September 10, 2008	TLC	2	87	440	56	310
16	Broadway Ave E of Emerson Ave	September 26, 2007	PW	12	63	80	877	1170
17	Broadway Ave W of Emerson Ave	September 26, 2007	PW	12	76	100	1344	1790
18	Bryant Ave N of 33rd St	May 9, 2006	PW	12	101	270	n/a	n/a
83	Bryant Ave N of Lake St	September 29, 2008	PW	2	159	800	85	470
19	Cedar Ave S of Riverside Ave	September 9, 2008	PW	14	285	330	954	1120
20	Cedar Lake Trail E of Royalston Ave	September 9, 2008	PW	2	234	1170	10	60
21	Cedar Lake Trail W of Kenilworth Trail	September 10, 2008	TLC	2	244	1220	46	260
22	Central Ave N of Lowry Ave	September 9, 2008	TLC	2	55	280	261	1450
23	Central Ave S of Lowry Ave	September 26, 2007	PW	12	80	110	533	710
84	Chicago Ave N of 48th St	September 9, 2008	PW	2	24	120	116	640
85	Chicago Ave N of Lake St	September 9, 2008	PW	2	38	190	257	1430
86	Como Ave E of 15th Ave	September 10, 2008	PW	2	227	1140	215	1190
87	E River Pkwy N of Franklin Ave	September 10, 2008	PW	2	333	1670	163	910
88	E River Pkwy S of Franklin Ave	September 10, 2008	PW	2	179	900	118	660
24	Emerson Ave N of Broadway Ave	September 26, 2007	PW	12	51	70	373	500
25	Emerson Ave S of Broadway Ave	September 26, 2007	PW	12	47	60	630	840
89	Fillmore St S of Broadway Ave	September 10, 2008	TLC	2	48	240	5	30
90	Ford Pkwy Bridge over Mississippi River	September 9, 2008	TLC	2	234	1170	134	740
91	Franklin Ave E of E River Pkwy	September 10, 2008	PW	2	94	470	44	240
27	Franklin Ave E of Minnehaha Ave	September 19 & 26, 2007	PW	11.5	362	490	660	900
92	Franklin Ave E of Park Ave	September 25, 2008	PW	2	115	580	270	1500
93	Franklin Ave E of Portland Ave	September 9, 2008	PW	2	120	600	169	940
26	Franklin Ave over Mississippi River *	September 9 & 10, 2008	TLC	2	287	1440	143	790
94	Franklin Ave W of 1st Ave	September 9, 2008	PW	2	110	640	174	1230
95	Franklin Ave W of Nicollet Ave	September 9, 2008	TLC	2	88	440	212	1180
96	Franklin Ave W of Portland Ave	September 9, 2008	PW	2	151	760	196	1090
28	Glenwood Ave W of 12th St	September 9, 2008	PW	2	41	210	76	420
97	Hennepin Ave E of 4th St NE	August 19 & 20, 2008	PW	13	209	280	n/a	n/a
98	Hennepin Ave E of University Ave	September 9, 2008	PW	2	100	500	165	920
103	Hennepin Ave N of 12th St N	August 26 & 29, 2008	PW	13	637	850	n/a	n/a
99	Hennepin Ave N of 1st St N	August 19 & 20, 2008	PW	11	960	1410	n/a	n/a
31	Hennepin Ave N of 28th St	September 9, 2008	TLC	2	104	520	297	1650
100	Hennepin Ave N of 2nd St N	August 19 & 20, 2008	PW	11	946	1390	n/a	n/a
101	Hennepin Ave N of 4th St N	August 26, 2008	PW	13	1078	1440	n/a	n/a
102	Hennepin Ave N of 6th St N	August 26 & 28, 2008	PW	13	890	1190	n/a	n/a
29	Hennepin Ave N of 7th St N	September 11, 2007	PW	12	1157	1540	5256	7010
104	Hennepin Ave N of Lake St	September 9 & 24, 2008	PW	12	240	340	2584	2880
30	Hennepin Ave over Mississippi River	September 9, 2008	PW	2	327	1640	319	1770

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix C: Bicyclist and Pedestrian Data for all Count Locations, Sorted Alphabetically by Count Location

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
105	Hiawatha Ave N of 38th St	September 9, 2008	PW	12	195	260	35	50
32	Hiawatha LRT Trail E of 11th Ave	September 9, 2008	PW	2	422	2110	13	70
106	Hiawatha LRT Trail N of 24th St	September 9 & 10, 2008	PW	12	1290	1850	53	80
107	Johnson St N of 22nd Ave	September 9, 2008	PW	2	13	70	75	420
108	Lake St E of Bryant Ave	September 29, 2008	PW	2	77	390	243	1350
109	Lake St E of Chicago Ave	September 9, 2008	PW	2	79	400	306	1700
110	Lake St E of Hennepin Ave	September 9 & 24, 2008	PW	12	119	170	1694	1930
33	Lake St over Mississippi River	September 10, 2008	TLC	2	290	1450	141	780
111	Lake St W of 47th Ave	September 10, 2008	PW	2	84	420	112	620
34	Loring Bikeway Bridge over Lyndale Ave	September 10, 2008	PW	2	99	500	6	30
35	Loring Bikeway S of 15th St	September 19 & 26, 2007	PW	10	595	970	271	420
36	Loring Bikeway under I-94	September 10, 2008	PW	2	233	1170	109	610
37	Loring Park Entrance N of 15th St	September 19 & 26, 2007	PW	10	524	850	298	460
38	Lowry Ave E of Central Ave	September 26, 2007	PW	12	49	70	216	290
39	Lowry Ave W of Central Ave	September 26, 2007	PW	12	50	70	258	340
40	Lyndale Ave N of 34th St	May 9, 2006	PW	12	205	140	n/a	n/a
112	Lyndale Ave N of Franklin Ave	September 10, 2008	TLC	2	142	710	186	1030
41	Marquette Ave N of 7th St	September 11, 2007	PW	12	486	650	4611	6150
42	Midtown Greenway E of Cedar Ave #	September 9 & 10, 2008	PW	24	2713	2710	5	30
113	Midtown Greenway Sabo Bridge	September 9, 2008	TLC	2	559	2800	34	190
114	Midtown Greenway W of 30th Ave †	September 9 & 10, 2008	Henn	24	1241	1240	n/a	n/a
43	Midtown Greenway W of Hennepin Ave #	September 9 & 10, 2008	PW	24	2855	2860	76	420
115	Midtown Greenway W of Hiawatha Ave	September 9, 2008	TLC	2	212	1060	26	140
44	Midtown Greenway W of W River Pkwy	September 9 & 10, 2008	PW	24	1100	1100	n/a	n/a
116	Minnehaha Ave N of 46th St	September 9, 2008	PW	2	72	360	27	150
45	Minnehaha Ave N of Franklin Ave	September 19 & 26, 2007	PW	11.5	156	210	410	560
46	Minnehaha Ave S of Franklin Ave	September 19 & 26, 2007	PW	11.5	218	300	274	370
117	New Brighton Blvd E of Stinson Blvd	September 10, 2008	PW	2	52	260	10	60
47	Nicollet Mall N of 12th St	September 11, 2007	PW	11.75	431	580	7228	9700
48	Nicollet Mall N of 7th St	September 11, 2007	PW	12	327	450	13415	17890
118	Park Ave N of Franklin Ave ^	September 25, 2008	PW	2	62	620	174	970
50	Plymouth Ave E of 2nd St	September 11, 2007	PW & TLC	11.5	122	180	51	70
49	Plymouth Ave over Mississippi River	September 9, 2008	TLC	2	69	350	88	490
51	Plymouth Ave W of 2nd St	September 11, 2007	PW & TLC	11.5	84	120	37	50
119	Portland Ave N of 28th St	September 10, 2008	TLC	2	143	480	67	370
52	Portland Ave N of 2nd St	September 11, 2007	PW	12	240	320	360	480
120	Portland Ave N of Franklin Ave^	September 9, 2008	PW	2	194	650	67	370
121	Portland Ave over Hwy 62	September 9, 2008	TLC	2	34	170	18	100
122	Portland Ave S of Franklin Ave^	September 9, 2008	PW	2	189	630	176	980
53	Riverside Ave E of Cedar Ave	September 9, 2008	PW	14	547	640	1043	1220
54	Riverside Ave over I-94	September 9, 2008	TLC	2	77	390	57	320
123	Stinson Blvd S of New Brighton Blvd	September 10, 2008	PW	2	81	410	13	70
55	Stone Arch Bridge over Mississippi River	September 9 & 16 & 17, 2008	PW	10	889	1360	2367	3330
125	U of M Transitway E of 25th Ave	September 9 & 10, 2008	PW	6	374	920	60	150
124	University Ave E of Hennepin Ave	September 9, 2008	PW	2	77	390	190	1060
56	University Ave over I-35W	September 11 & 27, 2007	PW	8	811	1400	1211	2180
126	Upton Ave S of 43rd St	September 10, 2008	PW	2	38	190	207	1150
127	Washington Ave E of 5th Ave S	September 10, 2008	PW	2	68	340	217	1210
57	Washington Ave over I-35W	September 10, 2008	PW	2	178	890	207	1150
128	Washington Ave W of Union St	September 10 & 24, 2008	PW	10	2063	3350	14049	21740

<sup>1</sup> PW is Public Works, TLC is Transit for Livable Communities, Henn is Hennepin County

\* Counts averaged over 2 days

# Pedestrian values indicate a 2 hour 4:00 to 6:00 pm count conducted by TLC on September 11, 2007

† Count conducted by Hennepin County, bicyclist values include pedestrians

^ 24 hour estimates for bicyclists were calculated using 10% and 30% on Park and Portland Avenues (respectively), due to 1-way traffic on these corridors

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix C (cont.): Bicyclist and Pedestrian Data for all Count Locations, Sorted by Count Location Number

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
1	10th Ave over Mississippi River	September 9, 2008	TLC	2	232	1160	154	860
2	11th Ave S of Hiawatha LRT Trail	September 19, 2007	PW	11	345	540	200	300
3	12th St S of Glenwood Ave	September 19 & 26, 2007	PW	11	173	250	180	260
4	15th Ave N of University Ave	September 9, 2008	TLC	2	598	2990	1290	7170
5	15th St E of Hennepin/Lyndale Aves	September 19 & 26, 2007	PW	10	98	160	229	360
6	1st St W of 3rd Ave S	September 9, 2008	PW	2	46	230	83	460
7	20th Ave S over I-94	September 9, 2008	TLC	2	221	1110	162	900
8	2nd Ave N of 7th St S	September 11, 2007	PW	12	329	440	4692	6260
9	2nd St N of Plymouth Ave	September 11, 2007	PW & TLC	11.5	113	160	46	70
10	2nd St S of Plymouth Ave	September 9, 2008	TLC	2	65	330	21	120
11	2nd St W of Portland Ave	September 11, 2007	PW	12	397	530	620	830
12	3rd Ave over Mississippi River	September 9, 2008	PW	2	116	580	147	820
13	40th St Pedestrian Bridge over I-35W	September 12, 2007	TLC	2	29	150	41	230
14	7th St N over I-94	September 10, 2008	TLC	2	23	120	15	80
15	Bridge 9 over Mississippi River	September 10, 2008	TLC	2	87	440	56	310
16	Broadway Ave E of Emerson Ave	September 26, 2007	PW	12	63	80	877	1170
17	Broadway Ave W of Emerson Ave	September 26, 2007	PW	12	76	100	1344	1790
18	Bryant Ave N of 33rd St	May 9, 2006	PW	12	101	270	n/a	n/a
19	Cedar Ave S of Riverside Ave	September 9, 2008	PW	14	285	330	954	1120
20	Cedar Lake Trail E of Royalston Ave	September 9, 2008	PW	2	234	1170	10	60
21	Cedar Lake Trail W of Kenilworth Trail	September 10, 2008	TLC	2	244	1220	46	260
22	Central Ave N of Lowry Ave	September 9, 2008	TLC	2	55	280	261	1450
23	Central Ave S of Lowry Ave	September 26, 2007	PW	12	80	110	533	710
24	Emerson Ave N of Broadway Ave	September 26, 2007	PW	12	51	70	373	500
25	Emerson Ave S of Broadway Ave	September 26, 2007	PW	12	47	60	630	840
26	Franklin Ave over Mississippi River *	September 9 & 10, 2008	TLC	2	287	1440	143	790
27	Franklin Ave E of Minnehaha Ave	September 19 & 26, 2007	PW	11.5	362	490	660	900
28	Glenwood Ave W of 12th St	September 9, 2008	PW	2	41	210	76	420
29	Hennepin Ave N of 7th St N	September 11, 2007	PW	12	1157	1540	5256	7010
30	Hennepin Ave over Mississippi River	September 9, 2008	PW	2	327	1640	319	1770
31	Hennepin Ave N of 28th St	September 9, 2008	TLC	2	104	520	297	1650
32	Hiawatha LRT Trail E of 11th Ave	September 9, 2008	PW	2	422	2110	13	70
33	Lake St over Mississippi River	September 10, 2008	TLC	2	290	1450	141	780
34	Loring Bikeway Bridge over Lyndale Ave	September 10, 2008	PW	2	99	500	6	30
35	Loring Bikeway S of 15th St	September 19 & 26, 2007	PW	10	595	970	271	420
36	Loring Bikeway under I-94	September 10, 2008	PW	2	233	1170	109	610
37	Loring Park Entrance N of 15th St	September 19 & 26, 2007	PW	10	524	850	298	460
38	Lowry Ave E of Central Ave	September 26, 2007	PW	12	49	70	216	290
39	Lowry Ave W of Central Ave	September 26, 2007	PW	12	50	70	258	340
40	Lyndale Ave N of 34th St	May 9, 2006	PW	12	205	140	n/a	n/a
41	Marquette Ave N of 7th St	September 11, 2007	PW	12	486	650	4611	6150
42	Midtown Greenway E of Cedar Ave #	September 9 & 10, 2008	PW	24	2713	2710	5	30
43	Midtown Greenway W of Hennepin Ave #	September 9 & 10, 2008	PW	24	2855	2860	76	420
44	Midtown Greenway W of W River Pkwy	September 9 & 10, 2008	PW	24	1100	1100	n/a	n/a
45	Minnehaha Ave N of Franklin Ave	September 19 & 26, 2007	PW	11.5	156	210	410	560
46	Minnehaha Ave S of Franklin Ave	September 19 & 26, 2007	PW	11.5	218	300	274	370
47	Nicollet Mall N of 12th St	September 11, 2007	PW	11.75	431	580	7228	9700
48	Nicollet Mall N of 7th St	September 11, 2007	PW	12	327	450	13415	17890
49	Plymouth Ave over Mississippi River	September 9, 2008	TLC	2	69	350	88	490
50	Plymouth Ave E of 2nd St	September 11, 2007	PW & TLC	11.5	122	180	51	70
51	Plymouth Ave W of 2nd St	September 11, 2007	PW & TLC	11.5	84	120	37	50
52	Portland Ave N of 2nd St	September 11, 2007	PW	12	240	320	360	480
53	Riverside Ave E of Cedar Ave	September 9, 2008	PW	14	547	640	1043	1220
54	Riverside Ave over I-94	September 9, 2008	TLC	2	77	390	57	320
55	Stone Arch Bridge over Mississippi River	September 9 & 16 & 17, 2008	PW	10	889	1360	2367	3330
56	University Ave over I-35W	September 11 & 27, 2007	PW	8	811	1400	1211	2180
57	Washington Ave over I-35W	September 10, 2008	PW	2	178	890	207	1150
58	10th Ave N of 5th St SE	September 10, 2008	PW	2	91	460	89	490
59	15th Ave N of 5th St SE	September 9 & 17, 2008	PW	8	1846	3570	2056	3830
60	15th Ave S of Como Ave	September 10, 2008	PW	2	254	1270	170	940
61	1st Ave E of Main St NE	August 19 & 20, 2008	PW	13	433	550	n/a	n/a
62	1st Ave S of Franklin Ave	September 9, 2008	PW	2	44	260	57	400
63	1st St E of Hennepin Ave	August 19 & 20, 2008	PW	11	431	630	n/a	n/a
64	1st St W of Hennepin Ave	August 19 & 20, 2008	PW	11	473	700	n/a	n/a
65	22nd Ave W of Johnson St	September 9, 2008	PW	2	14	70	6	30
66	24th St E of Hiawatha LRT Trail	September 9 & 10, 2008	PW	12	279	400	66	90
67	24th St Pedestrian Bridge over Hiawatha Ave	September 9 & 10, 2008	PW	12	82	120	40	60
68	26th Ave E of Penn Ave	September 10, 2008	TLC	2	10	50	28	160
69	27th Ave N of Franklin Ave SE	September 10, 2008	PW	2	50	250	33	180
70	31st St under I-35W *	September 10 & 11, 2008	PW	2	49	250	76	420
71	38th St E of Hiawatha Ave	September 9, 2008	PW	20	237	250	611	630
72	3rd Ave S of 4th St S	September 9 & 10, 2008	PW	13.5	274	360	2255	3240
73	42nd St E of Minnehaha Ave	September 9, 2008	TLC	2	36	180	42	230
74	43rd St W of Upton Ave	September 10, 2008	PW	2	21	110	153	850
75	46th St W of Minnehaha Ave	September 9, 2008	PW	2	48	240	75	420
76	47th Ave S of Lake St	September 10, 2008	PW	2	17	90	19	110
77	48th St E of Chicago Ave	September 9, 2008	PW	2	16	80	65	360
78	4th St E of 3rd Ave S	September 9 & 10, 2008	PW	13	352	490	2155	3110

Pink indicates high values; blue indicates low values.

## Appendix C (cont.): Bicyclist and Pedestrian Data for all Count Locations, Sorted by Count Location Number

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
79	5th Ave N of Washington Ave S	September 10, 2008	PW	2	52	260	170	940
80	5th St W of 10th Ave SE	September 10, 2008	PW	2	194	970	187	1040
81	5th St W of 15th Ave SE	September 9, 2008	PW	5	280	1190	440	1370
82	Bloomington Ave over Hwy 62	September 9, 2008	TLC	2	61	310	22	120
83	Bryant Ave N of Lake St	September 29, 2008	PW	2	159	800	85	470
84	Chicago Ave N of 48th St	September 9, 2008	PW	2	24	120	116	640
85	Chicago Ave N of Lake St	September 9, 2008	PW	2	38	190	257	1430
86	Como Ave E of 15th Ave	September 10, 2008	PW	2	227	1140	215	1190
87	E River Pkwy N of Franklin Ave	September 10, 2008	PW	2	333	1670	163	910
88	E River Pkwy S of Franklin Ave	September 10, 2008	PW	2	179	900	118	660
89	Fillmore St S of Broadway Ave	September 10, 2008	TLC	2	48	240	5	30
90	Ford Pkwy Bridge over Mississippi River	September 9, 2008	TLC	2	234	1170	134	740
91	Franklin Ave E of E River Pkwy	September 10, 2008	PW	2	94	470	44	240
92	Franklin Ave E of Park Ave	September 25, 2008	PW	2	115	580	270	1500
93	Franklin Ave E of Portland Ave	September 9, 2008	PW	2	120	600	169	940
94	Franklin Ave W of 1st Ave	September 9, 2008	PW	2	110	640	174	1230
95	Franklin Ave W of Nicollet Ave	September 9, 2008	TLC	2	88	440	212	1180
96	Franklin Ave W of Portland Ave	September 9, 2008	PW	2	151	760	196	1090
97	Hennepin Ave E of 4th St NE	August 19 & 20, 2008	PW	13	209	280	n/a	n/a
98	Hennepin Ave E of University Ave	September 9, 2008	PW	2	100	500	165	920
99	Hennepin Ave N of 1st St N	August 19 & 20, 2008	PW	11	960	1410	n/a	n/a
100	Hennepin Ave N of 2nd St N	August 19 & 20, 2008	PW	11	946	1390	n/a	n/a
101	Hennepin Ave N of 4th St N	August 26, 2008	PW	13	1078	1440	n/a	n/a
102	Hennepin Ave N of 6th St N	August 26 & 28, 2008	PW	13	890	1190	n/a	n/a
103	Hennepin Ave N of 12th St N	August 26 & 29, 2008	PW	13	637	850	n/a	n/a
104	Hennepin Ave N of Lake St	September 9 & 24, 2008	PW	12	240	340	2584	2880
105	Hiawatha Ave N of 38th St	September 9, 2008	PW	12	195	260	35	50
106	Hiawatha LRT Trail N of 24th St	September 9 & 10, 2008	PW	12	1290	1850	53	80
107	Johnson St N of 22nd Ave	September 9, 2008	PW	2	13	70	75	420
108	Lake St E of Bryant Ave	September 29, 2008	PW	2	77	390	243	1350
109	Lake St E of Chicago Ave	September 9, 2008	PW	2	79	400	306	1700
110	Lake St E of Hennepin Ave	September 9 & 24, 2008	PW	12	119	170	1694	1930
111	Lake St W of 47th Ave	September 10, 2008	PW	2	84	420	112	620
112	Lyndale Ave N of Franklin Ave	September 10, 2008	TLC	2	142	710	186	1030
113	Midtown Greenway Sabo Bridge	September 9, 2008	TLC	2	559	2800	34	190
114	Midtown Greenway W of 30th Ave †	September 9 & 10, 2008	Henn	24	1241	1240	n/a	n/a
115	Midtown Greenway W of Hiawatha Ave	September 9, 2008	TLC	2	212	1060	26	140
116	Minnehaha Ave N of 46th St	September 9, 2008	PW	2	72	360	27	150
117	New Brighton Blvd E of Stinson Blvd	September 10, 2008	PW	2	52	260	10	60
118	Park Ave N of Franklin Ave ^	September 25, 2008	PW	2	62	620	174	970
119	Portland Ave N of 28th St	September 10, 2008	TLC	2	143	480	67	370
120	Portland Ave N of Franklin Ave^	September 9, 2008	PW	2	194	650	67	370
121	Portland Ave over Hwy 62	September 9, 2008	TLC	2	34	170	18	100
122	Portland Ave S of Franklin Ave^	September 9, 2008	PW	2	189	630	176	980
123	Stinson Blvd S of New Brighton Blvd	September 10, 2008	PW	2	81	410	13	70
124	University Ave E of Hennepin Ave	September 9, 2008	PW	2	77	390	190	1060
125	U of M Transitway E of 25th Ave	September 9 & 10, 2008	PW	6	374	920	60	150
126	Upton Ave S of 43rd St	September 10, 2008	PW	2	38	190	207	1150
127	Washington Ave E of 5th Ave S	September 10, 2008	PW	2	68	340	217	1210
128	Washington Ave W of Union St	September 10 & 24, 2008	PW	10	2063	3350	14049	21740

<sup>1</sup> PW is Public Works, TLC is Transit for Livable Communities, Henn is Hennepin County

\* Counts averaged over 2 days

# Pedestrian values indicate a 2 hour 4:00 to 6:00 pm count conducted by TLC on September 11, 2007

† Count conducted by Hennepin County, bicyclist values include pedestrians

^ 24 hour estimates for bicyclists were calculated using 10% and 30% on Park and Portland Avenues (respectively), due to 1-way traffic on these corridors

Pink indicates high values; blue indicates low values.

## Appendix C (cont.): Bicyclist Data for all Count Locations, Sorted by Descending Bicyclist Volume

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)
59	15th Ave N of 5th St SE	September 9 & 17, 2008	PW	8	1846	3570
128	Washington Ave W of Union St	September 10 & 24, 2008	PW	10	2063	3350
4	15th Ave N of University Ave	September 9, 2008	TLC	2	598	2990
43	Midtown Greenway W of Hennepin Ave	September 9 & 10, 2008	PW	24	2855	2860
113	Midtown Greenway Sabo Bridge	September 9, 2008	TLC	2	559	2800
42	Midtown Greenway E of Cedar Ave	September 9 & 10, 2008	PW	24	2713	2710
32	Hiawatha LRT Trail E of 11th Ave	September 9, 2008	PW	2	422	2110
106	Hiawatha LRT Trail N of 24th St	September 9 & 10, 2008	PW	12	1290	1850
87	E River Pkwy N of Franklin Ave	September 10, 2008	PW	2	333	1670
30	Hennepin Ave over Mississippi River	September 9, 2008	PW	2	327	1640
29	Hennepin Ave N of 7th St N	September 11, 2007	PW	12	1157	1540
33	Lake St over Mississippi River	September 10, 2008	TLC	2	290	1450
26	Franklin Ave over Mississippi River *	September 9 & 10, 2008	TLC	2	287	1440
101	Hennepin Ave N of 4th St N	August 26, 2008	PW	13	1078	1440
99	Hennepin Ave N of 1st St N	August 19 & 20, 2008	PW	11	960	1410
56	University Ave over I-35W	September 11 & 27, 2007	PW	8	811	1400
100	Hennepin Ave N of 2nd St N	August 19 & 20, 2008	PW	11	946	1390
55	Stone Arch Bridge over Mississippi River	September 9 & 16 & 17, 2008	PW	10	889	1360
60	15th Ave S of Como Ave	September 10, 2008	PW	2	254	1270
114	Midtown Greenway W of 30th Ave	September 9 & 10, 2008	Henn	24	1241	1240
21	Cedar Lake Trail W of Kenilworth Trail	September 10, 2008	TLC	2	244	1220
81	5th St W of 15th Ave SE	September 9, 2008	PW	5	280	1190
102	Hennepin Ave N of 6th St N	August 26 & 28, 2008	PW	13	890	1190
20	Cedar Lake Trail E of Royalston Ave	September 9, 2008	PW	2	234	1170
90	Ford Pkwy Bridge over Mississippi River	September 9, 2008	TLC	2	234	1170
36	Loring Bikeway under I-94	September 10, 2008	PW	2	233	1170
1	10th Ave over Mississippi River	September 9, 2008	TLC	2	232	1160
86	Como Ave E of 15th Ave	September 10, 2008	PW	2	227	1140
7	20th Ave S over I-94	September 9, 2008	TLC	2	221	1110
44	Midtown Greenway W of W River Pkwy	September 9 & 10, 2008	PW	24	1100	1100
115	Midtown Greenway W of Hiawatha Ave	September 9, 2008	TLC	2	212	1060
80	5th St W of 10th Ave SE	September 10, 2008	PW	2	194	970
35	Loring Bikeway S of 15th St	September 19 & 26, 2007	PW	10	595	970
125	U of M Transitway E of 25th Ave	September 9 & 10, 2008	PW	6	374	920
88	E River Pkwy S of Franklin Ave	September 10, 2008	PW	2	179	900
57	Washington Ave over I-35W	September 10, 2008	PW	2	178	890
103	Hennepin Ave N of 12th St N	August 26 & 29, 2008	PW	13	637	850
37	Loring Park Entrance N of 15th St	September 19 & 26, 2007	PW	10	524	850
83	Bryant Ave N of Lake St	September 29, 2008	PW	2	159	800
96	Franklin Ave W of Portland Ave	September 9, 2008	PW	2	151	760
112	Lyndale Ave N of Franklin Ave	September 10, 2008	TLC	2	142	710
64	1st St W of Hennepin Ave	August 19 & 20, 2008	PW	11	473	700
41	Marquette Ave N of 7th St	September 11, 2007	PW	12	486	650
120	Portland Ave N of Franklin Ave <sup>^</sup>	September 9, 2008	PW	2	194	650
94	Franklin Ave W of 1st Ave	September 9, 2008	PW	2	110	640
53	Riverside Ave E of Cedar Ave	September 9, 2008	PW	14	547	640
63	1st St E of Hennepin Ave	August 19 & 20, 2008	PW	11	431	630
122	Portland Ave S of Franklin Ave <sup>^</sup>	September 9, 2008	PW	2	189	630
118	Park Ave N of Franklin Ave <sup>^</sup>	September 25, 2008	PW	2	62	620
93	Franklin Ave E of Portland Ave	September 9, 2008	PW	2	120	600
12	3rd Ave over Mississippi River	September 9, 2008	PW	2	116	580
92	Franklin Ave E of Park Ave	September 25, 2008	PW	2	115	580
47	Nicollet Mall N of 12th St	September 11, 2007	PW	11.75	431	580
61	1st Ave E of Main St NE	August 19 & 20, 2008	PW	13	433	550
2	11th Ave S of Hiawatha LRT Trail	September 19, 2007	PW	11	345	540
11	2nd St W of Portland Ave	September 11, 2007	PW	12	397	530
31	Hennepin Ave N of 28th St	September 9, 2008	TLC	2	104	520
98	Hennepin Ave E of University Ave	September 9, 2008	PW	2	100	500
34	Loring Bikeway Bridge over Lyndale Ave	September 10, 2008	PW	2	99	500
78	4th St E of 3rd Ave S	September 9 & 10, 2008	PW	13	352	490
27	Franklin Ave E of Minnehaha Ave	September 19 & 26, 2007	PW	11.5	362	490
119	Portland Ave N of 28th St	September 10, 2008	TLC	2	143	480
91	Franklin Ave E of E River Pkwy	September 10, 2008	PW	2	94	470
58	10th Ave N of 5th St SE	September 10, 2008	PW	2	91	460
48	Nicollet Mall N of 7th St	September 11, 2007	PW	12	327	450
8	2nd Ave N of 7th St S	September 11, 2007	PW	12	329	440
15	Bridge 9 over Mississippi River	September 10, 2008	TLC	2	87	440

## Appendix C (cont.): Bicyclist Data for all Count Locations, Sorted by Descending Bicyclist Volume

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Bicyclists (Actual)	Bicyclists (24 Hour Est.)
95	Franklin Ave W of Nicollet Ave	September 9, 2008	TLC	2	88	440
111	Lake St W of 47th Ave	September 10, 2008	PW	2	84	420
123	Stinson Blvd S of New Brighton Blvd	September 10, 2008	PW	2	81	410
66	24th St E of Hiawatha LRT Trail	September 9 & 10, 2008	PW	12	279	400
109	Lake St E of Chicago Ave	September 9, 2008	PW	2	79	400
108	Lake St E of Bryant Ave	September 29, 2008	PW	2	77	390
54	Riverside Ave over I-94	September 9, 2008	TLC	2	77	390
124	University Ave E of Hennepin Ave	September 9, 2008	PW	2	77	390
72	3rd Ave S of 4th St S	September 9 & 10, 2008	PW	13.5	274	360
116	Minnehaha Ave N of 46th St	September 9, 2008	PW	2	72	360
49	Plymouth Ave over Mississippi River	September 9, 2008	TLC	2	69	350
104	Hennepin Ave N of Lake St	September 9 & 24, 2008	PW	12	240	340
127	Washington Ave E of 5th Ave S	September 10, 2008	PW	2	68	340
10	2nd St S of Plymouth Ave	September 9, 2008	TLC	2	65	330
19	Cedar Ave S of Riverside Ave	September 9, 2008	PW	14	285	330
52	Portland Ave N of 2nd St	September 11, 2007	PW	12	240	320
82	Bloomington Ave over Hwy 62	September 9, 2008	TLC	2	61	310
46	Minnehaha Ave S of Franklin Ave	September 19 & 26, 2007	PW	11.5	218	300
22	Central Ave N of Lowry Ave	September 9, 2008	TLC	2	55	280
97	Hennepin Ave E of 4th St NE	August 19 & 20, 2008	PW	13	209	280
18	Bryant Ave N of 33rd St	May 9, 2006	PW	12	101	270
62	1st Ave S of Franklin Ave	September 9, 2008	PW	2	44	260
79	5th Ave N of Washington Ave S	September 10, 2008	PW	2	52	260
105	Hiawatha Ave N of 38th St	September 9, 2008	PW	12	195	260
117	New Brighton Blvd E of Stinson Blvd	September 10, 2008	PW	2	52	260
3	12th St S of Glenwood Ave	September 19 & 26, 2007	PW	11	173	250
69	27th Ave N of Franklin Ave SE	September 10, 2008	PW	2	50	250
70	31st St under I-35W *	September 10 & 11, 2008	PW	2	49	250
71	38th St E of Hiawatha Ave	September 9, 2008	PW	20	237	250
75	46th St W of Minnehaha Ave	September 9, 2008	PW	2	48	240
89	Fillmore St S of Broadway Ave	September 10, 2008	TLC	2	48	240
6	1st St W of 3rd Ave S	September 9, 2008	PW	2	46	230
28	Glenwood Ave W of 12th St	September 9, 2008	PW	2	41	210
45	Minnehaha Ave N of Franklin Ave	September 19 & 26, 2007	PW	11.5	156	210
85	Chicago Ave N of Lake St	September 9, 2008	PW	2	38	190
126	Upton Ave S of 43rd St	September 10, 2008	PW	2	38	190
73	42nd St E of Minnehaha Ave	September 9, 2008	TLC	2	36	180
50	Plymouth Ave E of 2nd St	September 11, 2007	PW & TLC	11.5	122	180
110	Lake St E of Hennepin Ave	September 9 & 24, 2008	PW	12	119	170
121	Portland Ave over Hwy 62	September 9, 2008	TLC	2	34	170
5	15th St E of Hennepin/Lyndale Aves	September 19 & 26, 2007	PW	10	98	160
9	2nd St N of Plymouth Ave	September 11, 2007	PW & TLC	11.5	113	160
13	40th St Pedestrian Bridge over I-35W	September 12, 2007	TLC	2	29	150
40	Lyndale Ave N of 34th St	May 9, 2006	PW	12	205	140
67	24th St Pedestrian Bridge over Hiawatha Ave	September 9 & 10, 2008	PW	12	82	120
14	7th St N over I-94	September 10, 2008	TLC	2	23	120
84	Chicago Ave N of 48th St	September 9, 2008	PW	2	24	120
51	Plymouth Ave W of 2nd St	September 11, 2007	PW & TLC	11.5	84	120
74	43rd St W of Upton Ave	September 10, 2008	PW	2	21	110
23	Central Ave S of Lowry Ave	September 26, 2007	PW	12	80	110
17	Broadway Ave W of Emerson Ave	September 26, 2007	PW	12	76	100
76	47th Ave S of Lake St	September 10, 2008	PW	2	17	90
77	48th St E of Chicago Ave	September 9, 2008	PW	2	16	80
16	Broadway Ave E of Emerson Ave	September 26, 2007	PW	12	63	80
65	22nd Ave W of Johnson St	September 9, 2008	PW	2	14	70
24	Emerson Ave N of Broadway Ave	September 26, 2007	PW	12	51	70
107	Johnson St N of 22nd Ave	September 9, 2008	PW	2	13	70
38	Lowry Ave E of Central Ave	September 26, 2007	PW	12	49	70
39	Lowry Ave W of Central Ave	September 26, 2007	PW	12	50	70
25	Emerson Ave S of Broadway Ave	September 26, 2007	PW	12	47	60
68	26th Ave E of Penn Ave	September 10, 2008	TLC	2	10	50

<sup>1</sup> PW is Public Works, TLC is Transit for Livable Communities, Henn is Hennepin County

\* Counts averaged over 2 days

† Count conducted by Hennepin County, bicyclist values include pedestrians

^ 24 hour estimates for bicyclists were calculated using 10% and 30% on Park and Portland Avenues (respectively), due to 1-way traffic on these corridors

## Appendix C (cont.): Pedestrian Data for all Count Locations, Sorted by Descending Pedestrian Volume

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
128	Washington Ave W of Union St	September 10 & 24, 2008	PW	10	14049	21740
48	Nicollet Mall N of 7th St	September 11, 2007	PW	12	13415	17890
47	Nicollet Mall N of 12th St	September 11, 2007	PW	11.75	7228	9700
4	15th Ave N of University Ave	September 9, 2008	TLC	2	1290	7170
29	Hennepin Ave N of 7th St N	September 11, 2007	PW	12	5256	7010
8	2nd Ave N of 7th St S	September 11, 2007	PW	12	4692	6260
41	Marquette Ave N of 7th St	September 11, 2007	PW	12	4611	6150
59	15th Ave N of 5th St SE	September 9 & 17, 2008	PW	8	2056	3830
55	Stone Arch Bridge over Mississippi River	September 9 & 16 & 17, 2008	PW	10	2367	3330
72	3rd Ave S of 4th St S	September 9 & 10, 2008	PW	13.5	2255	3240
78	4th St E of 3rd Ave S	September 9 & 10, 2008	PW	13	2155	3110
104	Hennepin Ave N of Lake St	September 9 & 24, 2008	PW	12	2584	2880
56	University Ave over I-35W	September 11 & 27, 2007	PW	8	1211	2180
110	Lake St E of Hennepin Ave	September 9 & 24, 2008	PW	12	1694	1930
17	Broadway Ave W of Emerson Ave	September 26, 2007	PW	12	1344	1790
30	Hennepin Ave over Mississippi River	September 9, 2008	PW	2	319	1770
109	Lake St E of Chicago Ave	September 9, 2008	PW	2	306	1700
31	Hennepin Ave N of 28th St	September 9, 2008	TLC	2	297	1650
92	Franklin Ave E of Park Ave	September 25, 2008	PW	2	270	1500
22	Central Ave N of Lowry Ave	September 9, 2008	TLC	2	261	1450
85	Chicago Ave N of Lake St	September 9, 2008	PW	2	257	1430
81	5th St W of 15th Ave SE	September 9, 2008	PW	5	440	1370
108	Lake St E of Bryant Ave	September 29, 2008	PW	2	243	1350
94	Franklin Ave W of 1st Ave	September 9, 2008	PW	2	174	1230
53	Riverside Ave E of Cedar Ave	September 9, 2008	PW	14	1043	1220
127	Washington Ave E of 5th Ave S	September 10, 2008	PW	2	217	1210
86	Como Ave E of 15th Ave	September 10, 2008	PW	2	215	1190
95	Franklin Ave W of Nicollet Ave	September 9, 2008	TLC	2	212	1180
16	Broadway Ave E of Emerson Ave	September 26, 2007	PW	12	877	1170
126	Upton Ave S of 43rd St	September 10, 2008	PW	2	207	1150
57	Washington Ave over I-35W	September 10, 2008	PW	2	207	1150
19	Cedar Ave S of Riverside Ave	September 9, 2008	PW	14	954	1120
96	Franklin Ave W of Portland Ave	September 9, 2008	PW	2	196	1090
124	University Ave E of Hennepin Ave	September 9, 2008	PW	2	190	1060
80	5th St W of 10th Ave SE	September 10, 2008	PW	2	187	1040
112	Lyndale Ave N of Franklin Ave	September 10, 2008	TLC	2	186	1030
122	Portland Ave S of Franklin Ave <sup>^</sup>	September 9, 2008	PW	2	176	980
118	Park Ave N of Franklin Ave <sup>^</sup>	September 25, 2008	PW	2	174	970
60	15th Ave S of Como Ave	September 10, 2008	PW	2	170	940
79	5th Ave N of Washington Ave S	September 10, 2008	PW	2	170	940
93	Franklin Ave E of Portland Ave	September 9, 2008	PW	2	169	940
98	Hennepin Ave E of University Ave	September 9, 2008	PW	2	165	920
87	E River Pkwy N of Franklin Ave	September 10, 2008	PW	2	163	910
7	20th Ave S over I-94	September 9, 2008	TLC	2	162	900
27	Franklin Ave E of Minnehaha Ave	September 19 & 26, 2007	PW	11.5	660	900
1	10th Ave over Mississippi River	September 9, 2008	TLC	2	154	860
74	43rd St W of Upton Ave	September 10, 2008	PW	2	153	850
25	Emerson Ave S of Broadway Ave	September 26, 2007	PW	12	630	840
11	2nd St W of Portland Ave	September 11, 2007	PW	12	620	830
12	3rd Ave over Mississippi River	September 9, 2008	PW	2	147	820
26	Franklin Ave over Mississippi River *	September 9 & 10, 2008	TLC	2	143	790
33	Lake St over Mississippi River	September 10, 2008	TLC	2	141	780
90	Ford Pkwy Bridge over Mississippi River	September 9, 2008	TLC	2	134	740
23	Central Ave S of Lowry Ave	September 26, 2007	PW	12	533	710
88	E River Pkwy S of Franklin Ave	September 10, 2008	PW	2	118	660
84	Chicago Ave N of 48th St	September 9, 2008	PW	2	116	640
71	38th St E of Hiawatha Ave	September 9, 2008	PW	20	611	630
111	Lake St W of 47th Ave	September 10, 2008	PW	2	112	620
36	Loring Bikeway under I-94	September 10, 2008	PW	2	109	610
45	Minnehaha Ave N of Franklin Ave	September 19 & 26, 2007	PW	11.5	410	560
24	Emerson Ave N of Broadway Ave	September 26, 2007	PW	12	373	500
58	10th Ave N of 5th St SE	September 10, 2008	PW	2	89	490
49	Plymouth Ave over Mississippi River	September 9, 2008	TLC	2	88	490
52	Portland Ave N of 2nd St	September 11, 2007	PW	12	360	480
83	Bryant Ave N of Lake St	September 29, 2008	PW	2	85	470
6	1st St W of 3rd Ave S	September 9, 2008	PW	2	83	460

## Appendix C (cont.): Pedestrian Data for all Count Locations, Sorted by Descending Pedestrian Volume

Number	Count Location	Date Conducted	Conducted by <sup>1</sup>	# Hours	Pedestrians (Actual)	Pedestrians (24 Hour Est.)
37	Loring Park Entrance N of 15th St	September 19 & 26, 2007	PW	10	298	460
70	31st St under I-35W *	September 10 & 11, 2008	PW	2	76	420
75	46th St W of Minnehaha Ave	September 9, 2008	PW	2	75	420
28	Glenwood Ave W of 12th St	September 9, 2008	PW	2	76	420
107	Johnson St N of 22nd Ave	September 9, 2008	PW	2	75	420
35	Loring Bikeway S of 15th St	September 19 & 26, 2007	PW	10	271	420
43	Midtown Greenway W of Hennepin Ave	September 11, 2007	TLC	2	76	420
62	1st Ave S of Franklin Ave	September 9, 2008	PW	2	57	400
46	Minnehaha Ave S of Franklin Ave	September 19 & 26, 2007	PW	11.5	274	370
119	Portland Ave N of 28th St	September 10, 2008	TLC	2	67	370
120	Portland Ave N of Franklin Ave^	September 9, 2008	PW	2	67	370
5	15th St E of Hennepin/Lyndale Aves	September 19 & 26, 2007	PW	10	229	360
77	48th St E of Chicago Ave	September 9, 2008	PW	2	65	360
39	Lowry Ave W of Central Ave	September 26, 2007	PW	12	258	340
54	Riverside Ave over I-94	September 9, 2008	TLC	2	57	320
15	Bridge 9 over Mississippi River	September 10, 2008	TLC	2	56	310
2	11th Ave S of Hiawatha LRT Trail	September 19, 2007	PW	11	200	300
38	Lowry Ave E of Central Ave	September 26, 2007	PW	12	216	290
3	12th St S of Glenwood Ave	September 19 & 26, 2007	PW	11	180	260
21	Cedar Lake Trail W of Kenilworth Trail	September 10, 2008	TLC	2	46	260
91	Franklin Ave E of E River Pkwy	September 10, 2008	PW	2	44	240
13	40th St Pedestrian Bridge over I-35W	September 12, 2007	TLC	2	41	230
73	42nd St E of Minnehaha Ave	September 9, 2008	TLC	2	42	230
113	Midtown Greenway Sabo Bridge	September 9, 2008	TLC	2	34	190
69	27th Ave N of Franklin Ave SE	September 10, 2008	PW	2	33	180
68	26th Ave E of Penn Ave	September 10, 2008	TLC	2	28	160
116	Minnehaha Ave N of 46th St	September 9, 2008	PW	2	27	150
125	U of M Transitway E of 25th Ave	September 9 & 10, 2008	PW	6	60	150
115	Midtown Greenway W of Hiawatha Ave	September 9, 2008	TLC	2	26	140
10	2nd St S of Plymouth Ave	September 9, 2008	TLC	2	21	120
82	Bloomington Ave over Hwy 62	September 9, 2008	TLC	2	22	120
76	47th Ave S of Lake St	September 10, 2008	PW	2	19	110
121	Portland Ave over Hwy 62	September 9, 2008	TLC	2	18	100
66	24th St E of Hiawatha LRT Trail	September 9 & 10, 2008	PW	12	66	90
14	7th St N over I-94	September 10, 2008	TLC	2	15	80
106	Hiawatha LRT Trail N of 24th St	September 9 & 10, 2008	PW	12	53	80
9	2nd St N of Plymouth Ave	September 11, 2007	PW & TLC	11.5	46	70
32	Hiawatha LRT Trail E of 11th Ave	September 9, 2008	PW	2	13	70
50	Plymouth Ave E of 2nd St	September 11, 2007	PW & TLC	11.5	51	70
123	Stinson Blvd S of New Brighton Blvd	September 10, 2008	PW	2	13	70
67	24th St Pedestrian Bridge over Hiawatha Ave	September 9 & 10, 2008	PW	12	40	60
20	Cedar Lake Trail E of Royalston Ave	September 9, 2008	PW	2	10	60
117	New Brighton Blvd E of Stinson Blvd	September 10, 2008	PW	2	10	60
105	Hiawatha Ave N of 38th St	September 9, 2008	PW	12	35	50
51	Plymouth Ave W of 2nd St	September 11, 2007	PW & TLC	11.5	37	50
65	22nd Ave W of Johnson St	September 9, 2008	PW	2	6	30
89	Fillmore St S of Broadway Ave	September 10, 2008	TLC	2	5	30
34	Loring Bikeway Bridge over Lyndale Ave	September 10, 2008	PW	2	6	30
42	Midtown Greenway E of Cedar Ave	September 11, 2007	TLC	2	5	30
61	1st Ave E of Main St NE	August 19 & 20, 2008	PW	13	n/a	n/a
63	1st St E of Hennepin Ave	August 19 & 20, 2008	PW	11	n/a	n/a
64	1st St W of Hennepin Ave	August 19 & 20, 2008	PW	11	n/a	n/a
18	Bryant Ave N of 33rd St	May 9, 2006	PW	12	n/a	n/a
97	Hennepin Ave E of 4th St NE	August 19 & 20, 2008	PW	13	n/a	n/a
99	Hennepin Ave N of 1st St N	August 19 & 20, 2008	PW	11	n/a	n/a
100	Hennepin Ave N of 2nd St N	August 19 & 20, 2008	PW	11	n/a	n/a
101	Hennepin Ave N of 4th St N	August 26, 2008	PW	13	n/a	n/a
102	Hennepin Ave N of 6th St N	August 26 & 28, 2008	PW	13	n/a	n/a
103	Hennepin Ave N of 12th St N	August 26 & 29, 2008	PW	13	n/a	n/a
40	Lyndale Ave N of 34th St	May 9, 2006	PW	12	n/a	n/a
114	Midtown Greenway W of 30th Ave	September 9 & 10, 2008	Henn	24	n/a	n/a
44	Midtown Greenway W of W River Pkwy	September 9 & 10, 2008	PW	24	n/a	n/a

<sup>1</sup> PW is Public Works, TLC is Transit for Livable Communities, Henn is Hennepin County

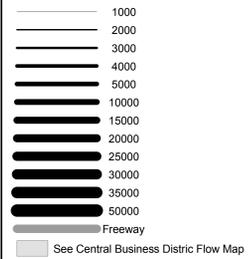
\* Counts averaged over 2 days

# VEHICULAR TRAFFIC FLOW

## 2005 AVERAGE ANNUAL DAILY TRAFFIC

CITY OF MINNEAPOLIS  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC AND PARKING SERVICES DIVISION

### Legend

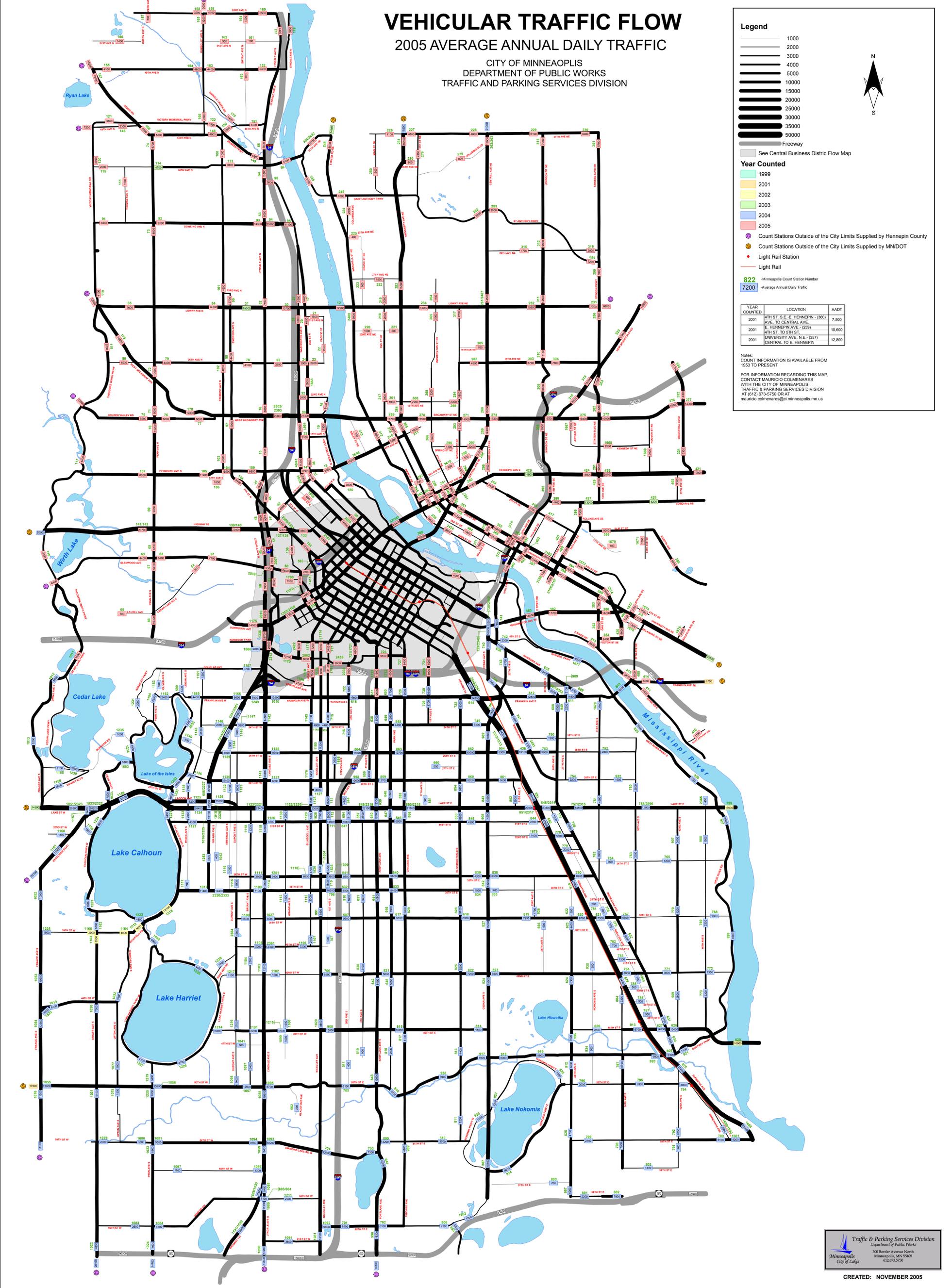


### Year Counted

- 1999
  - 2001
  - 2002
  - 2003
  - 2004
  - 2005
- Count Stations Outside of the City Limits Supplied by Hennepin County
  - Count Stations Outside of the City Limits Supplied by MN/DOT
  - Light Rail Station
  - Light Rail

YEAR COUNTED	LOCATION	AADT
2001	4TH ST. S. E. - HENNEPIN - (380)	7,500
2001	E. HENNEPIN AVE. - (239)	10,600
2001	UNIVERSITY AVE. N.E. - (357)	12,800

Notes:  
COUNT INFORMATION IS AVAILABLE FROM 1953 TO PRESENT.  
FOR INFORMATION REGARDING THIS MAP CONTACT MAURICIO COLMENARES WITH THE CITY OF MINNEAPOLIS TRAFFIC & PARKING SERVICES DIVISION AT (612) 675-5750 OR AT mauricio.colmenares@ci.minneapolis.mn.us



Traffic & Parking Services Division  
Department of Public Works  
Minneapolis  
City of Lakes

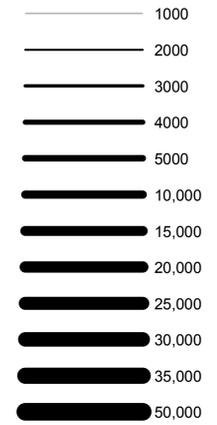
CREATED: NOVEMBER 2005

# VEHICULAR TRAFFIC FLOW IN THE CENTRAL BUSINESS DISTRICT

## 2004/2005 AVERAGE ANNUAL DAILY TRAFFIC

CITY OF MINNEAPOLIS  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC AND PARKING SERVICES DIVISION

### Legend



### Collection Year



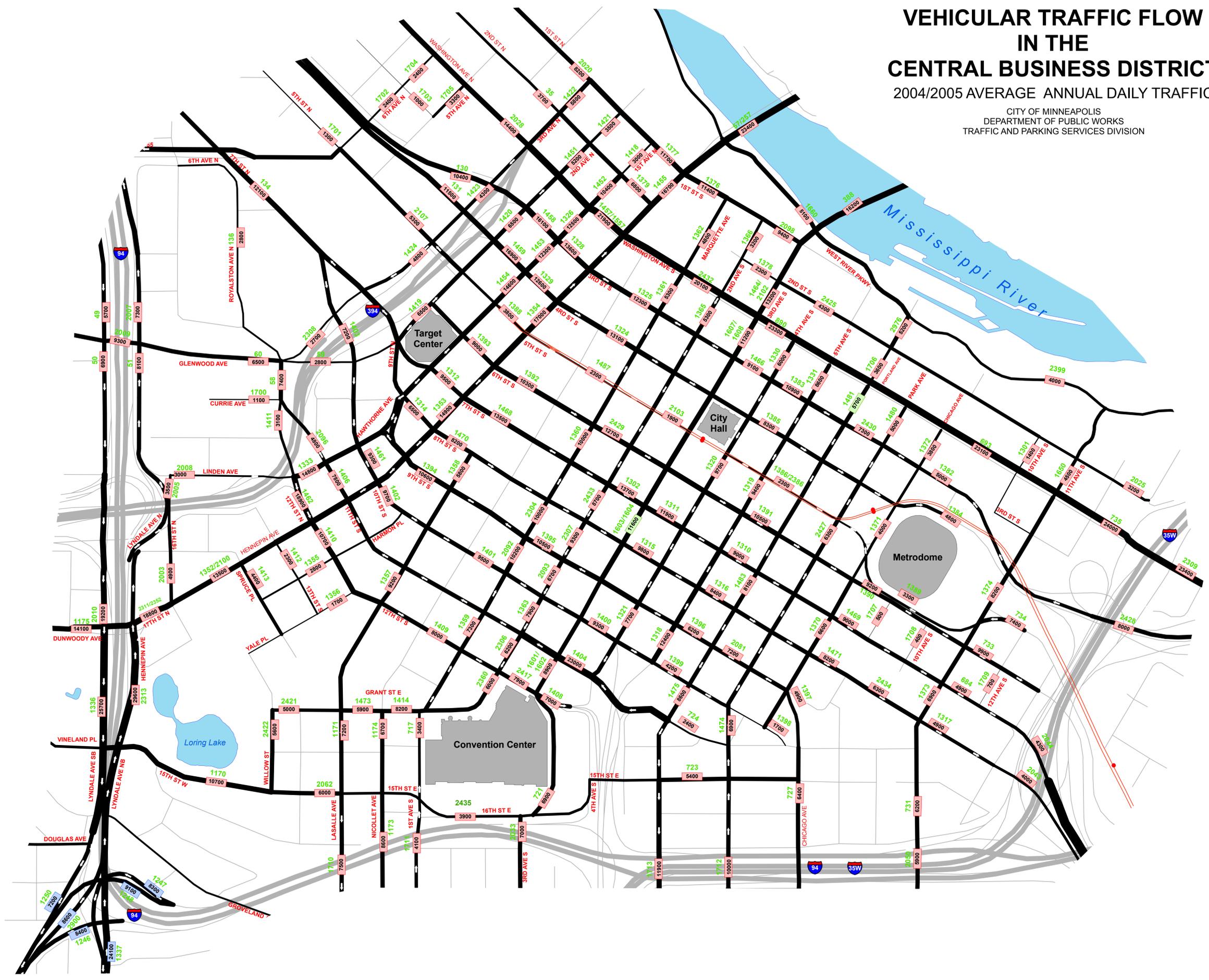
- Light Rail Station
- Light Rail
- Freeway

822 -Minneapolis Count Station Number  
7200 -Average Annual Daily Traffic

Notes:  
ALL COUNTS IN THE CBD ARE COMPLETED  
EVERY ODD YEAR (1999, 2001, 2003, 2005, ETC.)

COUNT INFORMATION IS AVAILABLE FROM  
1953 TO PRESENT

FOR INFORMATION REGARDING THIS MAP,  
CONTACT MAURICIO COLMENARES  
WITH THE CITY OF MINNEAPOLIS  
TRAFFIC & PARKING SERVICES DIVISION  
AT (612) 673-5750 OR AT  
mauricio.colmenares@ci.minneapolis.mn.us



*Traffic & Parking Services Division*  
Department of Public Works  
Minneapolis  
City of Lakes

300 Border Avenue North  
Minneapolis, MN 55405  
612.673.5750

CREATED: NOV 2005

## Appendix E: Traffic Share for All Transportation Modes at Select Locations, Sorted by Descending Bicyclist Percentage (%)

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.6%	0	0.0%	4590
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix E (cont.): Traffic Share for All Transportation Modes at Select Locations, Sorted by Descending Pedestrian Percentage (%)

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.6%	0	0.0%	4590
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix E (cont.): Traffic Share for All Transportation Modes at Select Locations, Sorted by Descending Transit Rider Percentage (%)

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.6%	0	0.0%	4590
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix E (cont.): Traffic Share for All Transportation Modes at Select Locations, Sorted Alphabetically by Count Location

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.6%	0	0.0%	4590
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

Pink indicates high values in each column; blue indicates low values in each column.

## Appendix E (cont.): Traffic Share for All Transportation Modes at Select Locations, Sorted by Count Location Number

Number	Count Location	Bicyclists	Bicyclist %	Motor Vehicle Occupants	Motor Vehicle Occupant %	Pedestrian EDT	Pedestrian %	Transit Riders	Transit Rider %	Total Travelers
1	10th Ave over Mississippi River	1160	7.3%	12730	80.3%	860	5.4%	1100	6.9%	15850
2	11th Ave S of Hiawatha LRT Trail	540	4.8%	10330	92.5%	300	2.7%	0	0.0%	11170
3	12th St S of Glenwood Ave	250	2.2%	9320	83.4%	260	2.3%	1340	12.0%	11170
5	15th St E of Hennepin/Lyndale Aves	160	1.1%	13480	95.4%	360	2.5%	130	0.9%	14130
6	1st St W of 3rd Ave S	230	1.0%	11840	52.3%	460	2.0%	10130	44.7%	22660
7	20th Ave S over I-94	1110	14.0%	5920	74.7%	900	11.3%	0	0.0%	7930
8	2nd Ave N of 7th St S*	440	1.7%	10960	43.2%	6260	24.7%	7700	30.4%	25360
9	2nd St N of Plymouth Ave	160	3.4%	4540	95.2%	70	1.5%	0	0.0%	4770
10	2nd St S of Plymouth Ave	330	4.3%	7180	94.1%	120	1.6%	0	0.0%	7630
11	2nd St W of Portland Ave	530	7.8%	5420	79.9%	830	12.2%	0	0.0%	6780
12	3rd Ave over Mississippi River	580	1.8%	20410	64.6%	820	2.6%	9780	31.0%	31590
14	7th St N over I-94	120	0.7%	11840	65.5%	80	0.4%	6030	33.4%	18070
19	Cedar Ave S of Riverside Ave	330	1.8%	16000	86.1%	1120	6.0%	1130	6.1%	18580
22	Central Ave N of Lowry Ave	280	1.2%	18270	78.5%	1450	6.2%	3260	14.0%	23260
26	Franklin Ave over Mississippi River	1440	10.1%	11970	83.6%	790	5.5%	120	0.8%	14320
27	Franklin Ave E of Minnehaha Ave	490	2.5%	16130	81.2%	900	4.5%	2350	11.8%	19870
28	Glenwood Ave W of 12th St	210	1.9%	8190	75.6%	420	3.9%	2020	18.6%	10840
29	Hennepin Ave N of 7th St N	1540	4.5%	18770	55.0%	7010	20.5%	6820	20.0%	34140
30	Hennepin Ave over Mississippi River	1640	4.2%	29480	75.5%	1770	4.5%	6140	15.7%	39030
31	Hennepin Ave N of 28th St	520	1.2%	33390	78.1%	1650	3.9%	7210	16.9%	42770
33	Lake St over Mississippi River	1450	5.5%	21420	81.1%	780	3.0%	2770	10.5%	26420
41	Marquette Ave N of 7th St*	650	2.4%	12600	46.9%	6150	22.9%	7440	27.7%	26840
46	Minnehaha Ave S of Franklin Ave	300	3.5%	7310	84.3%	370	4.3%	690	8.0%	8670
49	Plymouth Ave over Mississippi River	350	2.6%	12850	93.9%	490	3.6%	0	0.0%	13690
50	Plymouth Ave E of 2nd St	180	2.0%	8820	97.2%	70	0.8%	0	0.0%	9070
51	Plymouth Ave W of 2nd St	120	1.1%	10460	94.5%	50	0.5%	440	4.0%	11070
52	Portland Ave N of 2nd St	320	4.4%	6550	89.1%	480	6.5%	0	0.0%	7350
57	Washington Ave over I-35W	890	2.6%	30240	88.3%	1150	3.4%	1980	5.8%	34260
58	10th Ave N of 5th St SE	460	3.7%	9700	77.0%	490	3.9%	1940	15.4%	12590
59	15th Ave N of 5th St SE	3570	12.6%	15120	53.2%	3830	13.5%	5890	20.7%	28410
60	15th Ave S of Como Ave	1270	7.7%	9200	56.1%	940	5.7%	5000	30.5%	16410
62	1st Ave S of Franklin Ave	260	3.8%	6170	90.3%	400	5.9%	0	0.0%	6830
68	26th Ave E of Penn Ave	50	0.8%	5540	92.8%	160	2.7%	220	3.7%	5970
69	27th Ave N of Franklin Ave SE	250	5.0%	4540	91.3%	180	3.6%	0	0.0%	4970
71	38th St E of Hiawatha Ave	250	2.4%	9200	88.0%	630	6.0%	370	3.5%	10450
72	3rd Ave S of 4th St S*	360	1.7%	14110	67.9%	3240	15.6%	3085	14.8%	20795
73	42nd St E of Minnehaha Ave	180	1.9%	8690	93.9%	230	2.5%	150	1.6%	9250
75	46th St W of Minnehaha Ave	240	1.1%	18650	88.3%	420	2.0%	1810	8.6%	21120
78	4th St E of 3rd Ave S	490	1.9%	10460	40.3%	3110	12.0%	11890	45.8%	25950
82	Bloomington Ave over Hwy 62	310	6.8%	4160	90.6%	120	2.8%	0	0.0%	4590
84	Chicago Ave N of 48th St	120	1.0%	10210	83.1%	640	5.2%	1320	10.7%	12290
85	Chicago Ave N of Lake St	190	1.2%	10580	64.3%	1430	8.7%	4260	25.9%	16460
86	Como Ave E of 15th Ave	1140	4.8%	16380	69.1%	1190	5.0%	5000	21.1%	23710
87	E River Pkwy N of Franklin Ave	1670	17.3%	7060	73.2%	910	9.4%	0	0.0%	9640
88	E River Pkwy S of Franklin Ave	900	12.4%	5670	78.4%	660	9.1%	0	0.0%	7230
90	Ford Pkwy Bridge over Mississippi River	1170	4.8%	21290	86.5%	740	3.0%	1400	5.7%	24600
91	Franklin Ave E of E River Pkwy	470	5.6%	7560	90.1%	240	2.9%	120	1.4%	8390
94	Franklin Ave W of 1st Ave	640	2.6%	20920	85.5%	1230	5.0%	1690	6.9%	24480
96	Franklin Ave W of Portland Ave	760	3.0%	20920	83.5%	1090	4.4%	2280	9.1%	25050
104	Hennepin Ave N of Lake St	340	1.0%	25580	77.4%	2880	8.7%	4230	12.8%	33030
105	Hiawatha Ave N of 38th St	260	0.5%	36410	67.5%	50	0.1%	17210	31.9%	53930
108	Lake St E of Bryant Ave	390	1.2%	29480	87.9%	1350	4.0%	2310	6.9%	33530
109	Lake St E of Chicago Ave	400	1.2%	26840	77.9%	1700	4.9%	5500	16.0%	34440
112	Lyndale Ave N of Franklin Ave	710	2.0%	30370	85.0%	1030	2.9%	3620	10.1%	35730
116	Minnehaha Ave N of 46th St	360	3.0%	10960	92.4%	150	1.3%	390	3.3%	11860
117	New Brighton Blvd E of Stinson Blvd	260	1.5%	16130	91.1%	60	0.3%	1260	7.1%	17710
118	Park Ave N of Franklin Ave	620	3.7%	14740	87.1%	970	5.7%	590	3.5%	16920
119	Portland Ave N of 28th St	480	2.9%	15500	94.3%	370	2.3%	80	0.5%	16430
120	Portland Ave N of Franklin Ave	650	3.7%	16250	91.4%	370	2.1%	510	2.9%	17780
121	Portland Ave over Hwy 62	170	0.8%	20540	94.2%	100	0.5%	990	4.5%	21800
122	Portland Ave S of Franklin Ave	630	3.5%	16380	90.8%	980	5.4%	50	0.3%	18040
123	Stinson Blvd S of New Brighton Blvd	410	2.6%	14110	88.0%	70	0.4%	1440	9.0%	16030
126	Upton Ave S of 43rd St	190	3.0%	3910	61.4%	1150	18.1%	1120	17.6%	6370
127	Washington Ave E of 5th Ave S	340	1.0%	29360	86.5%	1210	3.6%	3030	8.9%	33940
128	Washington Ave W of Union St	3350	5.0%	22300	33.0%	21740	32.2%	20210	29.9%	67600

\* Exact transit boarding information for Marquette, 2nd, and 3rd Avenues not available. Totals from express buses as they entered Downtown were reduced assuming that express buses are at 50% capacity at these locations.

Pink indicates high values in each column; blue indicates low values in each column.