

Metropolitan Transportation Planning Organization (MTPO) for the Gainesville Urbanized Area by the North Central Florida Regional Planning Council

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EXECUTIVE SUMMARY

The <u>Bicycle Usage Trends Program</u> contains the results of the 2009 bicycle count activities conducted by the Metropolitan Transportation Planning Organization (MTPO) for the Gainesville Urbanized Area. The MTPO is responsible for transportation planning within the Gainesville Metropolitan Area (GMA). The purpose of the <u>Program</u> is to establish a historical record of bicycle activity within the GMA by collecting, monitoring and reporting bicycle activity information. This information is used to develop bicycle planning strategies and evaluate the effectiveness of bicycle engineering and enforcement activities.

The MTPO has collected this type of bicycle count information yearly from 1982 through 1999. On December 14, 2000, the MTPO decided to have the report of bicycle count information prepared every five years to correspond with the development of the long range transportation plan. This <u>Report</u> presents results from data collected in 2009, as well as some of the data collected from 1985 through 2005.

SUMMARY FINDINGS

Upon examination of the data presented in this <u>Report</u>, the summary findings are as follows:

12-HOUR WEEKDAY COUNT LOCATIONS (7:00 am - 7:00 pm)

- (1) Generally, bicycle volume counts increased the closer they were taken to the University of Florida. Four of the locations (#23, #28, #31 and #37) represent 62 percent of the total 12-hour volume of 6,535 bicycles. The total 12-hour volume counts ranged from a high of 1,734 bicycle observations at W 17th Street and W University Avenue to a low of 68 observations at Newberry Road and NW 62nd Street, as well as NW 23rd Avenue and NW 83rd St.
- Bicycle volume is fairly constant from 8:00 a.m. to 6:00 p.m. at the 12-hour (7:00 a.m. 7:00 p.m.) day count locations (see Illustration V). Bicycle volumes range from approximately one to 26.5 percent of the total volume, per location.

BICYCLE VOLUME TRENDS ANALYSIS 1982 - 2009

The 2009 total volume count of 6,535 is the highest since 1997 and is approximately 1,861 more than the 2005 count (see Table 2 and Illustration VI). In addition, 61.71 percent of the total volume was observed at the four count stations surrounding the University of Florida Campus.

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INTRODUCTION

Ι

The <u>Bicycle Usage Trends Program</u> contains the results of the 2009 bicycle count activities conducted by the Metropolitan Transportation Planning Organization (MTPO) for the Gainesville Urbanized Area. The MTPO is responsible for transportation planning within the Gainesville Metropolitan Area (GMA). The purpose of the <u>Program</u> is to establish a historical record of bicycle activity within the GMA by collecting, monitoring and reporting bicycle activity information.

The MTPO collected this type of bicycle count information yearly from 1982 through 1999. On December 14, 2000, the MTPO decided to have the report of bicycle count information prepared every five years to correspond with the development of the long range transportation plan. This <u>Report</u> presents results from data collected in 2009, as well as some of the data collected from 1982 through 2005.

The <u>Program</u> began in 1982 with 32 count locations. In the 1983, 1984 and 1985 <u>Programs</u>, 10, 12 and 14 locations, respectively, were counted. Fifteen locations were counted in the 1986, 1987 and 1988 <u>Programs</u>. In 1989 through 1991, nine locations were counted. In 1992, two additional locations were added to the count and again in 1995 two additional locations were added. The 2005 and 2009 reports contain thirteen permanent locations (Table 1). These locations were counted in the fall of 2009 (Illustration I).

PURPOSE

The purpose of this <u>Report</u> is to monitor, collect and present information on bicycle activity for selected count locations within the GMA. The data reported in this <u>Report</u> is used to develop historical activity profiles for selected bicycle count locations. This information is used to develop bicycle planning strategies within the GMA and to evaluate the effectiveness of bicycle engineering and enforcement activities.

The following is a list of some of the uses for the information presented in this Report:

- 1. to identify historical trends of bicycle activity;
- 2. to collect historical bicycle count information which is used to develop long-range transportation plans; and
- 3. to provide information concerning:
 - A. the effectiveness of bicycle education and enforcement programs;
 - B. the future needs for bicycle facilities; and
 - C. the safety of on-street versus off-street bicycle facilities.

SCOPE

For this <u>Report</u>, there are 13 permanent count locations within the GMA. These locations were selected by the Bicycle/Pedestrian Advisory Board with the assistance of MTPO staff. Nine of these locations (#13, #15, #22, #23, #25, #28, #31, #37 and #40) have been maintained from the Program's inception in 1985. During the Program, four locations have been added. These include: #32 and #54 in 1992; and #17 and #55 in 1995. From 1985 to 1999, this trend analysis Program was conducted annually. Since 1999, bicycle usage data has been collected to coincide with the MTPO Long Range Transportation Plan update. The 13 permanent count locations are shown in Table 1 and Illustration I.

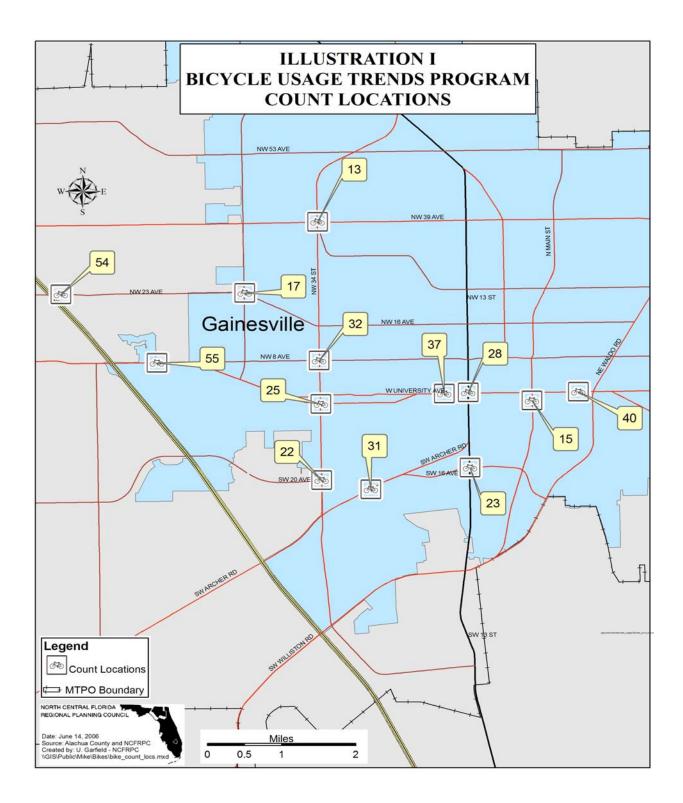
TABLE 1

COUNT LOCATION NUMBER	INTERSECTION
13	NW 34 th Street and NW 39 th Avenue
15	S Main Street and SW 2 nd Avenue
17	NW 43 rd Street and NW 23 rd Avenue
22	SW 34 th Street and SW 20 th Avenue
23	SW 13 th Street and SW 16 th Avenue
25	SW 34 th Street and SW 2 nd Avenue
28	W 13 th Street and W University Avenue
31	SW 23 rd Terrace and Archer Road
32	NW 34 th Street and NW 8 th Avenue
37	W 17 th Street and W University Avenue
40	E 9 th Street and E University Avenue
54	NW 23 rd Avenue and NW 83 rd Street
55	Newberry Road and SW 62 nd Boulevard

PERMANENT BICYCLE COUNT LOCATIONS-GAINESVILLE METROPOLITAN AREA, 2009

^a Each location in the program is assigned a number. See Illustration I for the location of each count station.

Source: Metropolitan Transportation Planning Organization staff.



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METHODOLOGY

The following paragraphs discuss the methodology used in this <u>Report</u>. Metropolitan Transportation Planning Organization (MTPO) staff were responsible for the field collection of the weekday bicycle count information. MTPO staff also performed the statistical analysis and prepared the written report discussing the results of the bicycle count information.

BICYCLE COUNTS - DAYS AND TIME

The data was collected from August to November 2009. Weekday counts were taken Tuesday through Thursday except:

- 1. holidays;
- 2. days in which public schools, the Santa Fe Community College or the University of Florida were not in session; and
- 3. days of inclement weather.

At each location, counts were conducted and recorded on a 15-minute basis. The 15-minute interval is based upon standard traffic engineering practices to determine peak-hour volumes. Over a twelve-hour time period, 48 separate recordings were made for bicycle volume at a given count location.

BICYCLE COUNTING FORM

Counting took place where all legs of the count location/intersection were visible to the observer. As cyclists rode through the intersection, they were recorded on a count form.

Appendix A contains the bicycle count form used for each count location. This form identifies:

- 1. the location number and description of the intersection;
- 2. the 15-minute time interval;
- 3. the date;
- 4. the directional movement; and
- 5. whether cyclists were traveling on-street or off-street.

In addition, field information was collected on whether the cyclist was traveling with or against traffic. However, an analysis of this information is not included in this <u>Report</u>.

BICYCLE COUNTS - DIRECTIONAL MOVEMENT

At a typical intersection, the counting form provided for 24 separate types of movements during each 15-minute period. Appendix B contains total directional movements for each count location. A movement was recorded on the basis of where the cyclist approached the intersection to his or her eventual destination. An approach and destination in the same direction was considered a through movement. No consideration was given to movements within the intersection.

For example, if a cyclist was observed traveling south approaching the count location intersection and turned west at the intersecting street, the field counter coded the cyclist's movement through the intersection as Southbound Right (SBR). If the cyclist continued south or turned east, the cyclist's movement would have been recorded as Southbound Through (SBT) or Southbound Left (SBL), respectively.

BICYCLE COUNTS - BY FACILITY TYPE (ON/OFF-STREET ACTIVITY)

Each bicycle movement through the intersection was identified as to whether the cyclist was traveling on-street or off-street. On-street cyclists were those using either an on-street bicycle facility (see Illustration II) or were traveling on a roadway which did not have any type of bicycle facility.

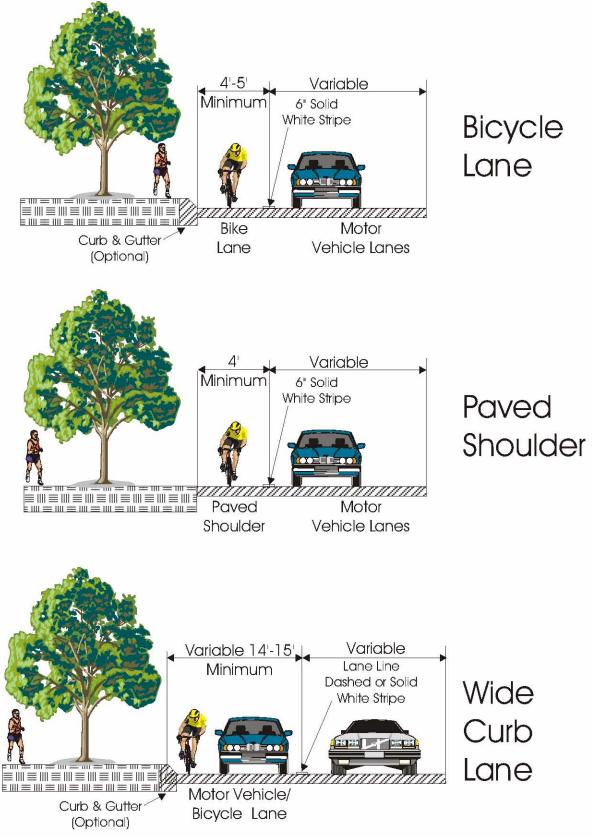
Off-street cyclists were those not traveling on the roadway. The majority of off-street cyclists were using sidewalks and bicycle paths (see Illustration III), however, some were traveling on unpaved shoulders.

On-street and off-street counts required that some subjective judgments be made. Generally speaking, whether the cyclist was on versus off street was determined by where the cyclist was riding as the cyclist departed the intersection. For example, if the cyclist approached the intersection on-street, but switched to off-street when leaving the intersection, it was recorded that the cyclist was traveling off-street. Appendix B contains information concerning whether the cyclist was traveling on-street or off-street for each count location.

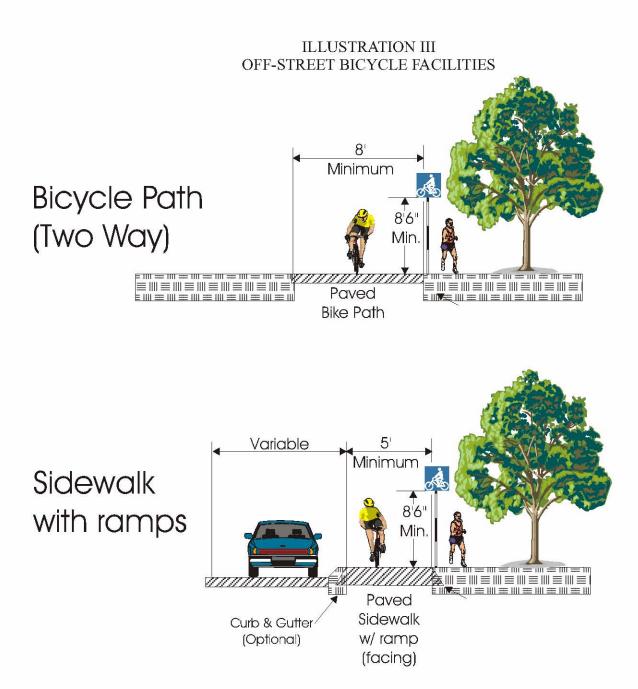
BICYCLE VOLUME TRENDS ANALYSIS 1985 - 2009

The thirteen permanent locations contained in this year's <u>Report</u> are where counts generally have been taken since the <u>Program</u> began in 1982. Historical trends can be noted from the bicycle activity information collected at each of these locations. Table 1 lists these thirteen count locations.

ILLUSTRATION II IN-STREET BICYCLE FACILITIES



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DATA RESULTS/DISCUSSION

This section discusses the results of the bicycle count information collected by the MTPO in the Fall of 2009. Included in this section is a discussion of 12-hour weekday count information and historical trends in bicycle counts for the period 1982 through 2009.

12-HOUR WEEKDAY COUNT LOCATIONS (7:00 am - 7:00 pm)

The data for the 12-hour weekday count locations are presented in the graphs and tables on the following pages. Table 2 and Illustration IV contain information concerning bicycle volume by count location. Bicycle volume by time is shown in Table 3 and Illustration V.

BICYCLE VOLUME BY COUNT LOCATION

According to Table 2 and Illustration IV, a total of 6,535 bicycles were counted during the 156 counting hours at the thirteen permanent count locations. The 12-hour volume count was highest at W 17th Street and W University Avenue (Location #37) where 1,734 bicycles were observed. This represents approximately 22 percent of the total 12-hour volume. The 12-hour volume count was lowest at NW 23rd Avenue and NW 83rd Street (Location # 54) and at Newberry Road and NW 62nd Street (Location #55) where 68 bicycles were observed in both locations. The count at each of these locations represents approximately one percent of the total 12-hour volume.

Generally speaking, larger numbers of bicycles were observed near the University of Florida. For example, the following bicycle observations were made at the following four locations near the University of Florida:

- 1. SW 13^{th} Street and SW 16^{th} Avenue (Location #23) 480;
- 2. W 13th Street and W University Avenue (Location #28) 1,191;
- 3. SW 23rd Terrace and Archer Road (Location #31) 628; and
- 4. W 17th Street and W University Avenue (Location #37) 1,734.

Bicycle usage was also high at S Main Street and SW 2nd Avenue (Location 15), where 645 bicycles were observed.

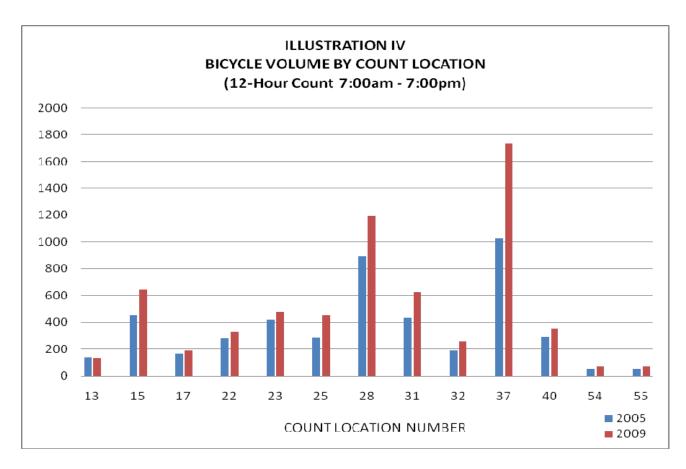
TABLE 2

BICYCLE VOLUME BY COUNT LOCATION (12-Hour Weekday Counts 7:00 a.m. - 7:00 p.m.) GAINESVILLE METROPOLITAN AREA 2009

^a COUNT LOCATION NUMBER	INTERSECTION	1997 BICYCLE VOLUME	1998 BICYCLE VOLUME	1999 BICYCLE VOLUME	2005 BICYCLE VOLUME	2009 BICYCLE VOLUME	PERCENT OF TOTAL (2009)
13	NW 34 TH Street and NW 39 th Avenue	162	202	103	138	134	2.05%
15	S Main Street and SW 2 nd Avenue	449	385	344	454	645	9.87%
17	NW 43 rd Street and NW 23 rd Avenue	177	183	147	167	189	2.89%
22	SW 34 th Street and SW 20 th Avenue	486	386	276	279	329	5.03%
23	SW 13 th Street and SW 16 th Avenue	711	581	421	417	480	7.35%
25	SW 34 th Street and SW 2 nd Avenue	420	442	330	288	457	6.99%
28	W 13 th Street and W University Avenue	1,471	1,619	1,357	891	1,191	18.22%
31	SW 23 rd Terrace and Archer Road	719	687	449	432	628	9.61%
32	NW 34 th Street and NW 8 th Avenue	255	238	177	191	257	3.93%
37	W 17 th Street and W University Avenue	1,707	1,298	1,416	1,028	1,734	26.53%
40	E.9th Street and E University Avenue	154	203	122	290	355	5.43%
54	NW 23 rd Avenue and NW 83 rd Street	68	43	69	50	68	1.04%
55	Newberry Road and NW 62 nd Street	33	66	39	49	68	1.04%
	TOTAL	6,752	6,333	5,250	4,674	6,535	100%

^a Each location in the program is assigned a number. See Illustration I for the location of each count station.

Source: Metropolitan Transportation Planning Organization staff.



BICYCLE VOLUME BY TIME

Table 3 and Illustration V contain information on bicycle volume by time of day for the 12-hour weekday count locations. This information is concerned with total bicycles counted for one-hour intervals from 7:00 am to 7:00 pm.

According to Table 3 and Illustration V, bicycle volume:

- 1. increases after 8:00 am, generally decreases after 9:00 am, increases again after 3:00 pm and decreases sharply after 6:00 pm;
- 2. was highest between 5:00 pm and 6:00 pm when 656 bicycles were observed. This represents approximately ten percent of the total 12-hour volume; and
- 3. was lowest between 7:00 am and 8:00 am when 344 bicycles were observed. This represents approximately five percent of the total 12-hour volume.

Illustration V also shows bicycle volume at all thirteen permanent count stations. Bicycle volume is shown for the current and previous count year for the 12-hour count interval.

TABLE 3

BICYCLE VOLUME FOR ALL COUNT LOCATIONS BY TIME (12-Hour Weekday Counts 7:00 am - 7:00 pm) GAINESVILLE METROPOLITAN AREA, 2009

TIME INTERVAL	NUMBER OF BICYCLES	PERCENT OF TOTAL
7:00 - 8:00 AM	344	5.26%
8:00 - 9:00 AM	540	8.26%
9:00 - 10:00 AM	600	9.18%
10:00 - 11:00 AM	572	8.75%
11:00 - 12:00 Noon	525	8.03%
12:00 - 1:00 PM	538	8.23%
1:00 - 2:00 PM	541	8.28%
2:00 - 3:00 PM	484	7.4%
3:00 - 4:00 PM	592	9.06%
4:00 - 5:00 PM	594	9.09%
5:00 - 6:00 PM	656	10.04%
6:00 - 7:00 PM	549	8.43%
TOTAL	6,535	100%

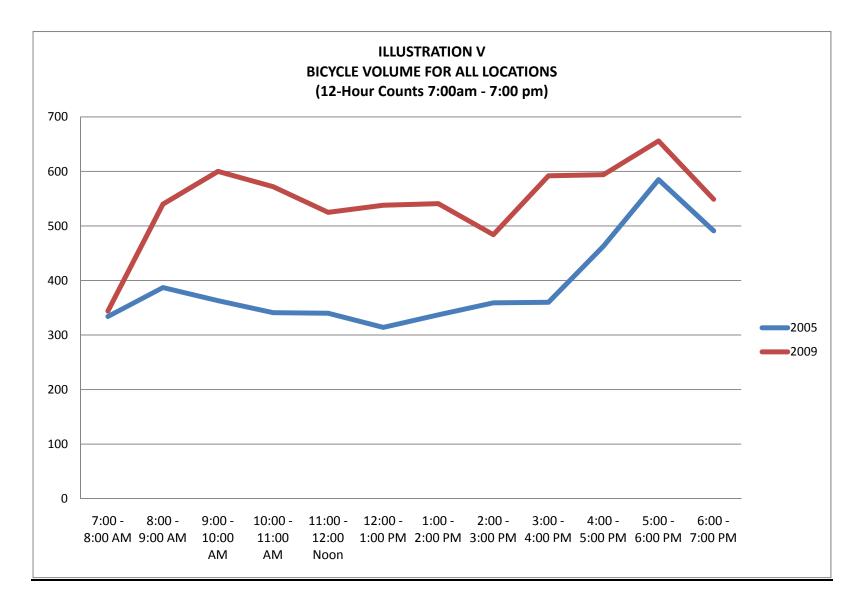
Source: Metropolitan Transportation Planning Organization staff.

BICYCLE VOLUME TRENDS ANALYSIS 1985 - 2009

As noted in the Scope, nine of the 13 permanent count locations have been counted every Program year, with two additional locations being counted every Program year since 1992 and another two additional locations being counted every Program year since 1995 (see Table 1). Comparison of bicycle volume by count location for Program years 2005 and 2009 are contained in Table 4 and Illustration IV.

Table 4 presents the data for the 13 permanent count locations. Illustration IV presents the bicycle volume data in a bar chart. This chart provides a visual depiction of the bicycle volume trend within the GMA.

In comparing the bicycle volumes for years 2005 and 2009, the data shows that there were significant increases in volume at count locations adjacent to the University of Florida (UF) and in downtown Gainesville. Count locations not adjacent to UF and downtown showed slight or no volume increases. The volume increases may be attributed to rising fuel costs and infill development within the GMA.



BICYCLE VOLUME BY LOCATION FOR THE PERIOD 1985 - 2009

The 2009 total volume counted is about 1,861 more than the 2005 count (see Table 4 and Illustration VI). In addition, about 62 percent of the total volume was observed at the four count stations surrounding the University of Florida Campus.

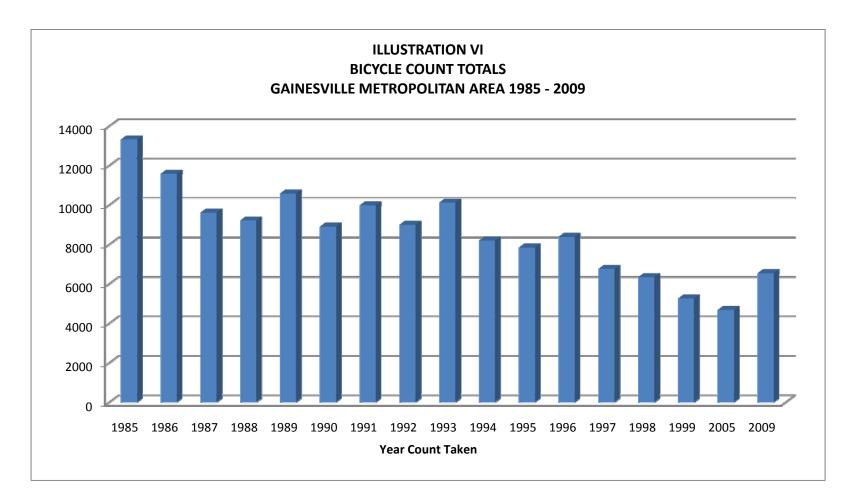


TABLE 4

BICYCLE VOLUME TRENDS ANALYSIS

GAINESVILLE METROPOLITAN AREA, 1985 - 2009

		YEAR																
NUMBER	INTERSECTION	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2005	2009
13	NW 34 th Street and NW 39 th Avenue	162	111	84	129	157	156	176	187	143	99	99	188	162	202	103	138	134
15	S Main Street and SW 2 nd Avenue	630	529	560	518	566	581	667	668	529	603	585	533	449	385	344	454	645
17	NW 43 rd Street and NW 23 rd Avenue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61	134	117	183	147	167	189
22	SW 34 th Street and SW 20 th Avenue	1,053	893	626	731	812	957	732	675	631	474	571	541	486	386	276	279	329
23	S.W. 13th Street and S.W. 16th	2,026	1,231	1,369	1,384	1,564	897	1,621	1,493	785	741	1,019	936	711	581	421	417	480
25	SW 34 th Street and SW 2 nd Avenue	1,296	853	867	760	868	767	929	697	819	656	740	687	420	442	330	288	457
28	W 13 th Street and W University	3,188	2,873	2,327	1,944	2,462	1,886	2,112	1,504	2,290	2,304	1,664	1,609	1,471	1,619	1,357	891	1,191
31	SW 23 rd Terrace and Archer Road	1,368	1,191	732	1,034	1,121	1,121	1,144	1,134	1,612	917	915	938	719	687	449	432	628
32	NW 34 th Street and NW 8 th Avenue	N/A	N/A	N/A	N/A	N/A	N/A	N/A	297	410	329	319	298	255	238	177	191	257
37	W 17 th Street and W University	3,365	3,646	2,876	2,484	2,768	2,305	2,281	1,508	2,594	1,835	1,532	2,194	1,707	1,298	1,416	1028	1,734
40	E 9 th Street and E University Avenue	225	247	165	224	259	225	314	224	233	176	177	227	154	203	122	290	355
54	NW 23 rd Avenue and NW 83 rd Street	N/A	N/A	N/A	N/A	N/A	N/A	N/A	601	70	61	64	34	68	43	69	50	68
55	Newberry Road and W 62 nd	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	88	62	33	66	39	49	68
		a	a	a	a	a	a	a	a	a	a							
	TOTAL	13,313	11,574	9,606	9,208	10,577	8,895	9,976	8,988	10,116	8,195	7,834	8,381	6,752	6,333	5,250	4,674	6,535

^a Figure includes data for locations where available.

//gis/public/mike/bikes/bike_usage2005/2005_bikes.xls

N/A = Counts were not taken at this location for this year.

Source: Metropolitan Transportation Planning Organization, Bicycle Usage Trends Program Reports, 1982 - 2009.

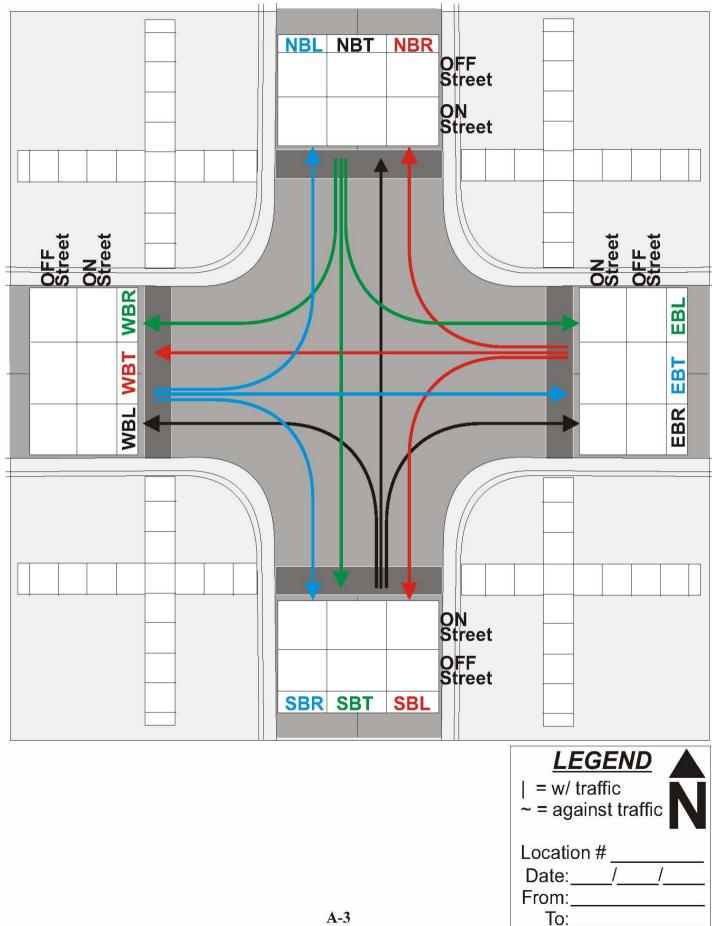
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APPENDIX A-

Bicycle Count Location Form

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2009 BICYCLE USAGE TRENDS PROGRAM



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APPENDIX B -Directional Movement by Count Location

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2009 BICYCLE USAGE TRENDS PROGRAM ALL LOCATIONS

NBL	NBT	NBR	
208	332	107	off street
107	559	134	on street

	off street	on street						on street	off street	
WBR	183	68						32	173	EBL
WBT	889	316		6535				257	928	EBT
WBL	186	35						32	329	EBR
							_			
			114	599	96	on street				

288

SBL

422

SBT

141

SBR

off street

Total bikes at all Locations	6535
Total bikes at: All	6535
Percent of Bikes at: All	100.00%
Total Bikes on Road:	2349
Total Bikes off Road:	4186
Total Bikes off Road: Percent of Bikes on Road:	4186 35.94%

Time Period	Total Bikes	% of total
7:00 - 8:00 A.M.	344	5.26%
8:00 - 9:00 A.M.	540	8.26%
9:00 - 10:00 A.M.	600	9.18%
10:00 - 11:00 A.M.	572	8.75%
11:00 - 12:00 Noon	525	8.03%
12:00 - 1:00 P.M.	538	8.23%
1:00 - 2:00 P.M.	541	8.28%
2:00 - 3:00 P.M.	484	7.41%
3:00 - 4:00 P.M.	592	9.06%
4:00 - 5:00 P.M.	594	9.09%
5:00 - 6:00 P.M.	656	10.04%
6:00 - 7:00 P.M.	549	8.40%
Total Bikes per locati	6535	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM LOCATION 13 NW 34TH Street and NW 39th Avenue

			NBL	NBT	NBR						
			0	3	0	off street					
			2	12	6	on street					
							_				
	off street	on street						on street	off street		
WBR	1	2			_			4	3	EBL	
WBT	4	17		134				9	8	EBT	
WBL	8	7						1	10	EBR	
			4	15	1	on street					
			5	5	7	off street					
			SBR	SBT	SBL						
						-					

Total bikes at all Locations	6535
Total bikes at: Location 13	134
Percent of Bikes at: Location 13	2.05%
T. (10)	
Total Bikes on Road:	80
Total Bikes off Road:	54
Percent of Bikes on Road:	59.70%
Percent of Bikes off Road:	40.30%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	18	13.43%
8:00 - 9:00 AM	12	8.96%
9:00 - 10:00 AM	11	8.21%
10:00 - 11:00 AM	7	5.22%
11:00 - 12:00 Noon	10	7.46%
12:00 - 1:00 PM	7	5.22%
1:00 - 2:00 PM	3	2.24%
2:00 - 3:00 PM	12	8.96%
3:00 - 4:00 PM	17	12.69%
4:00 - 5:00 PM	8	5.97%
5:00 - 6:00 PM	16	11.94%
6:00 - 7:00 PM	13	9.70%
Total Bikes per location	134	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM
Location 15
S Main Street and SW 2nd Avenue

			NBL	NBT	NBR	<u> </u>			
			8	40	13	off street			
			4	7	3	on street			
	off street	on street					on street	off street	
WBR	4	9	_		_		6	10	EBL
WBT	6	233		645			184	11	EBT
WBL	10	6			•		8	6	EBR
]						
			19	7	1	on street			
			10	30	10	off street			
			SBR	SBT	SBL				
						-			

Total bikes at all Loca	6535	
Total bikes at:	645	
Percent of Bikes at:	Location 15	9.87%
Total Bikes on Road:	487	
Total Bikes off Road:	158	
Percent of Bikes on F	75.50%	
Percent of Bikes off F	24.50%	

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	32	4.96%
8:00 - 9:00 AM	59	9.15%
9:00 - 10:00 AM	47	7.29%
10:00 - 11:00 AM	54	8.37%
11:00 - 12:00 Noon	44	6.82%
12:00 - 1:00 PM	57	8.84%
1:00 - 2:00 PM	50	7.75%
2:00 - 3:00 PM	55	8.53%
3:00 - 4:00 PM	54	8.37%
4:00 - 5:00 PM	60	9.30%
5:00 - 6:00 PM	74	11.47%
6:00 - 7:00 PM	59	9.15%
Total Bikes per location	645	100.00%

	2005 BICYCLE USAGE TRENDS PROGRAM Location 17 NW 43rd Street and NW 23rd Avenue									
				NBL	NBT	NBR	<u> </u>			
				8	13	5	off street			
				4	10	3	on street			
	off street	on street						on street	off street	
WBR	6	3				_		2	10	EBL
WBT	23	4			189			3	22	EBT
WBL	14	5						4	4	EBR
				10	15	0	on street			
				7	9	5	off street			
				SBR	SBT	SBL				

Total bikes at all Lo	6535	
Total bikes at:	189	
Percent of Bikes at:	Location 17	2.89%
Total Bikes on Road	d:	63
Total Bikes on Road Total Bikes off Road		63 126
	1:	63 126 33.33%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	21	11.11%
8:00 - 9:00 AM	19	10.05%
9:00 - 10:00 AM	13	6.88%
10:00 - 11:00 AM	9	4.76%
11:00 - 12:00 Noon	17	8.99%
12:00 - 1:00 PM	14	7.41%
1:00 - 2:00 PM	12	6.35%
2:00 - 3:00 PM	21	11.11%
3:00 - 4:00 PM	24	12.70%
4:00 - 5:00 PM	11	5.82%
5:00 - 6:00 PM	17	8.99%
6:00 - 7:00 PM	11	5.82%
Total Bikes per location	189	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 22 SW 34th Street and SW 20th Avenue

			NBL	NBT	NBR					
			46	39	1	off street				
			52	24	0	on street				
	off street	on street					on street	off street		
WBR	26	39	-		_		1	0	EBL	
WBT	0	0		329			0	0	EBT	
WBL	10	3					2	0	EBR	
			3	33	1	on street				
			5	42	2	off street				
			SBR	SBT	SBL					
						-				

Total bikes at all Locations	6535
Total bikes at: Location 2	2 329
Percent of Bikes at: Location 2	2 5.03%
Total Bikes on Road:	158
Total Bikes off Road:	171
Percent of Bikes on Road:	48.02%
Percent of Bikes off Road:	51.98%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	26	7.90%
8:00 - 9:00 AM	39	11.85%
9:00 - 10:00 AM	30	9.12%
10:00 - 11:00 AM	30	9.12%
11:00 - 12:00 Noon	16	4.86%
12:00 - 1:00 PM	15	4.56%
1:00 - 2:00 PM	22	6.69%
2:00 - 3:00 PM	15	4.56%
3:00 - 4:00 PM	28	8.51%
4:00 - 5:00 PM	47	14.29%
5:00 - 6:00 PM	31	9.42%
6:00 - 7:00 PM	30	9.12%
Total Bikes per location	329	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 23 SW 13th Street and SW 16th Avenue

			NBL	NBT	NBR				
			4	10	22	off street			
			8	103	32	on street			
	off street	on street					on street	off street	
WBR	7	6			_		4	38	EBL
WBT	35	15		480			7	26	EBT
WBL	17	6			•		2	1	EBR
			20	86	0	on street			
			6	21	4	off street			
			SBR	SBT	SBL				

Total bikes at all Loc	6535	
Total bikes at:	Location 23	480
Percent of Bikes at:	Location 23	7.35%
Total Bikes on Road		289
		289 191
Total Bikes on Road: Total Bikes off Road: Percent of Bikes on		200

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	27	5.63%
8:00 - 9:00 AM	56	11.67%
9:00 - 10:00 AM	55	11.46%
10:00 - 11:00 AM	47	9.79%
11:00 - 12:00 Noon	33	6.88%
12:00 - 1:00 PM	30	6.25%
1:00 - 2:00 PM	40	8.33%
2:00 - 3:00 PM	34	7.08%
3:00 - 4:00 PM	43	8.96%
4:00 - 5:00 PM	38	7.92%
5:00 - 6:00 PM	45	9.38%
6:00 - 7:00 PM	32	6.67%
Total Diluce was location	400	400.000/
Total Bikes per location	480	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 25 SW 34th Street and SW 2nd Avenue

			NBL	NBT	NBR					
			5	18	17	off street				
			1	17	7	on street				
	off street	on street					ſ	on street	off street	
WBR	5	0			_			2	32	EBL
WBT	78	4		457				1	93	EBT
WBL	19	1						2	44	EBR
			20	12	17	on street				
			14	23	25	off street				
			SBR	SBT	SBL					
			•			-				

Total bikes at all Locations	6535
Total bikes at: Location 25	457
Percent of Bikes at: Location 25	6.99%
Total Bikes on Road:	84
Total Bikes on Road: Total Bikes off Road:	84 373
	84 373 18.38%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	28	6.13%
8:00 - 9:00 AM	52	11.38%
9:00 - 10:00 AM	44	9.63%
10:00 - 11:00 AM	35	7.66%
11:00 - 12:00 Noon	29	6.35%
12:00 - 1:00 PM	30	6.56%
1:00 - 2:00 PM	31	6.78%
2:00 - 3:00 PM	31	6.78%
3:00 - 4:00 PM	31	6.78%
4:00 - 5:00 PM	41	8.97%
5:00 - 6:00 PM	46	10.07%
6:00 - 7:00 PM	59	12.91%
Total Bikes per location	457	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 28 W 13th Street and W University Avenue

			NBL	NBT	NBR	1			
			110	136	7	off street			
			9	7	1	on street			
	off street	on street					on street	off street	
WBR	94	4	-				0	6	EBL
WBT	225	15		1191			22	202	EBT
WBL	41	6			•		2	22	EBR
	•								
			7	11	6	on street			
			39	142	77	off street			
			SBR	SBT	SBL	l			
						-			

Total bikes at all Loc	6535	
Total bikes at:	Location 28	1191
Percent of Bikes at:	Location 28	18.22%
Total Bikes on Road		90
Total Bikes on Road: Total Bikes off Road:		90 1101

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	44	3.69%
8:00 - 9:00 AM	66	5.54%
9:00 - 10:00 AM	99	8.31%
10:00 - 11:00 AM	114	9.57%
11:00 - 12:00 Noon	111	9.32%
12:00 - 1:00 PM	107	8.98%
1:00 - 2:00 PM	121	10.16%
2:00 - 3:00 PM	70	5.88%
3:00 - 4:00 PM	162	13.60%
4:00 - 5:00 PM	111	9.32%
5:00 - 6:00 PM	108	9.07%
6:00 - 7:00 PM	78	6.55%
Total Bikes per location	1191	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 31 SW 23rd Terrace and Archer Road

			NBL	NBT	NBR				
			0	0	0	off street			
			0	0	0	on street			
	off street	on street					on street	off street	
WBR	0	0		-	_		0	0	EBL
WBT	176	1		628			3	211	EBT
WBL	13	0					2	120	EBR
			2	0	22	on street			
			6	0	72	off street			
			SBR	SBT	SBL				
						-			

Total bikes at all Loca	6535	
Total bikes at:	Location 31	628
Percent of Bikes at:	Location 31	9.61%
T (L D'L D L		
Total Bikes on Road:		30
Total Bikes off Road:	598	
Percent of Bikes on F	Road:	4.78%
Percent of Bikes off F	Road:	95.22%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	44	7.01%
8:00 - 9:00 AM	65	10.35%
9:00 - 10:00 AM	71	11.31%
10:00 - 11:00 AM	55	8.76%
11:00 - 12:00 Noon	56	8.92%
12:00 - 1:00 PM	39	6.21%
1:00 - 2:00 PM	42	6.69%
2:00 - 3:00 PM	35	5.57%
3:00 - 4:00 PM	44	7.01%
4:00 - 5:00 PM	43	6.85%
5:00 - 6:00 PM	72	11.46%
6:00 - 7:00 PM	62	9.87%
Total Bikes per location	628	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 32 NW 34th Street and NW 8th Avenue

			NBL	NBT	NBR	1			
				NDT	NDR	<u> </u>			
			7	41	15	off street			
			0	6	2	on street			
	off street	on street					on street	off street	
WBR	7	0		-	_		1	20	EBL
WBT	55	2		257			0	26	EBT
WBL	7	0			-		0	6	EBR
			3	6	0	on street			
			11	38	4	off street			
			SBR	SBT	SBL				

Total bikes at all Loca	6535	
Total bikes at:	Location 32	257
Percent of Bikes at:	Location 32	3.93%
Total Bikes on Road:		20
		=•
Total Bikes off Road:	237	
Percent of Bikes on F	7.78%	
Percent of Bikes off F	92.22%	

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	19	7.39%
8:00 - 9:00 AM	16	6.23%
9:00 - 10:00 AM	14	5.45%
10:00 - 11:00 AM	16	6.23%
11:00 - 12:00 Noon	20	7.78%
12:00 - 1:00 PM	18	7.00%
1:00 - 2:00 PM	12	4.67%
2:00 - 3:00 PM	16	6.23%
3:00 - 4:00 PM	18	7.00%
4:00 - 5:00 PM	30	11.67%
5:00 - 6:00 PM	52	20.23%
6:00 - 7:00 PM	26	10.12%
Total Bikes per location	257	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM
Location 37
W/ 17th Ctreat and W/ University Avenue

W 17th Street and W University Avenue

			NBL	NBT	NBR				
			7	27	9	off street			
			21	348	68	on street			
	off street	on street					on street	off street	
WBR	11	2		-	_		12	37	EBL
WBT	187	18		1734			22	209	EBT
WBL	37	1			-		9	86	EBR
			21	365	40	on street			
			34	109	54	off street			
			SBR	SBT	SBL				

Total bikes at all Loc	6535	
Total bikes at:	Location 37	1734
Percent of Bikes at:	Location 37	26.53%
Total Bikes on Road:		927
	927 807	
Total Bikes off Road:		
Percent of Bikes on I	53.46%	
Percent of Bikes off F	46.54%	

Time a Dania d	Tatal Dileas	0/ - [+ - + -]
Time Period	Total Bikes	% of total
7:00 - 8:00 AM	46	2.65%
8:00 - 9:00 AM	117	6.75%
9:00 - 10:00 AM	181	10.44%
10:00 - 11:00 AM	178	10.27%
11:00 - 12:00 Noon	157	9.05%
12:00 - 1:00 PM	180	10.38%
1:00 - 2:00 PM	166	9.57%
2:00 - 3:00 PM	160	9.23%
3:00 - 4:00 PM	125	7.21%
4:00 - 5:00 PM	162	9.34%
5:00 - 6:00 PM	144	8.30%
6:00 - 7:00 PM	118	6.81%
Total Bikes per location	1734	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 40 E 9th Street and E University Avenue

			NBL	NBT	NBR				
			1	5	5	off street			
			5	25	7	on street			
	off street	on street					on street	off street	
WBR	10	0		_			0	11	EBL
WBT	67	1		355			3	84	EBT
WBL	8	0					0	29	EBR
-									
			3	49	8	on street			
			4	3	27	off street			
			SBR	SBT	SBL				

Total bikes at all Locations	6535
Total bikes at: Location 40	355
Percent of Bikes at: Location 40	5.43%
Total Bikes on Road:	101
Total Bikes off Road:	254
Percent of Bikes on Road:	28.45%
Percent of Bikes off Road:	71.55%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	24	6.76%
8:00 - 9:00 AM	24	6.76%
9:00 - 10:00 AM	30	8.45%
10:00 - 11:00 AM	20	5.63%
11:00 - 12:00 Noon	24	6.76%
12:00 - 1:00 PM	31	8.73%
1:00 - 2:00 PM	31	8.73%
2:00 - 3:00 PM	26	7.32%
3:00 - 4:00 PM	30	8.45%
4:00 - 5:00 PM	36	10.14%
5:00 - 6:00 PM	38	10.70%
6:00 - 7:00 PM	41	11.55%
Total Bikes per location	355	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 54 NW 23rd Avenue and NW 83rd Street

			NBL	NBT	NBR				
			12	0	13	off street			
			1	0	5	on street			
	off street	on street					on street	off street	
WBR	12	3	-	_			0	6	EBL
WBT	10	0		68			0	5	EBT
WBL	0	0					0	0	EBR
			1	0	0	on street			
			0	0	0	off street			
			SBR	SBT	SBL				
						-			

Total bikes at all Locations	6535
Total bikes at: Location 54	68
Percent of Bikes at: Location 54	1.04%
T (10)	10
Total Bikes on Road:	10
Total Bikes off Road:	58
Percent of Bikes on Road:	14.71%
Percent of Bikes off Road:	85.29%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	7	10.29%
8:00 - 9:00 AM	7	10.29%
9:00 - 10:00 AM	3	4.41%
10:00 - 11:00 AM	2	2.94%
11:00 - 12:00 Noon	1	1.47%
12:00 - 1:00 PM	4	5.88%
1:00 - 2:00 PM	6	8.82%
2:00 - 3:00 PM	7	10.29%
3:00 - 4:00 PM	8	11.76%
4:00 - 5:00 PM	4	5.88%
5:00 - 6:00 PM	10	14.71%
6:00 - 7:00 PM	9	13.24%
Total Bikes per location	68	100.00%

2005 BICYCLE USAGE TRENDS PROGRAM Location 55 Newberry Road and NW 62nd Street

			NBL	NBT	NBR					
			0	0	0	off street				
			0	0	0	on street				
	off street	on street					on street	off street		_
WBR	0	0	-		_		0	0	EBL	
WBT	23	6		68			3	31	EBT	
WBL	2	0					0	1	EBR	
			1	0	0	on street				
			0	0	1	off street				
			SBR	SBT	SBL					
						_				

Total bikes at all Locations	6535
Total bikes at: Location 55	68
Percent of Bikes at: Location 55	1.04%
Total Bikes on Road:	10
	10 58
Total Bikes on Road: Total Bikes off Road: Percent of Bikes on Road:	10 58 14.71%

Time Period	Total Bikes	% of total
7:00 - 8:00 AM	8	11.76%
8:00 - 9:00 AM	8	11.76%
9:00 - 10:00 AM	2	2.94%
10:00 - 11:00 AM	5	7.35%
11:00 - 12:00 Noon	7	10.29%
12:00 - 1:00 PM	6	8.82%
1:00 - 2:00 PM	5	7.35%
2:00 - 3:00 PM	2	2.94%
3:00 - 4:00 PM	8	11.76%
4:00 - 5:00 PM	3	4.41%
5:00 - 6:00 PM	3	4.41%
6:00 - 7:00 PM	11	16.18%
Total Bikes per location	68	100.00%

APPENDIX C – Multimodal Analysis 2009

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MULTIMODAL ANALYSIS

As part of the Metropolitan Transportation Planning Organization's Year 2035 Long Range Transportation Plan update, the Technical Advisory Committee requested MTPO staff assistance for collection of some multimodal data. The purpose of this data collection was to get a sense of the modal splits within the Gainesville Metropolitan Area, particularly near the University of Florida campus.

The Subcommittee asked that counts for bicycle, pedestrian, motorscooter and motorcycle activity be collected at the Bicycle Usage Trend Program permanent count locations. These counts were collected in the fall of 2009. The bicycle volume was collected according to the Report methodology. The motorscooter, motorcycle and pedestrian counts consist of an overall count from all approaches at each intersection. Exhibit 1 shows the results. In addition, Exhibit 1 identifies the adjacent roadway annual average daily traffic (AADT), as provided by the Alachua County Public Works Department and the Florida Department of Transportation 2008 Florida Traffic Information & Highway Data DVD.

Exhibit 1 also shows the percent of non-motorized traffic. This percentage was derived by subtracting bicycle and pedestrian volumes from the adjacent AADT. The average non-motorized modal split for the permanent count locations is five percent. The lowest modal split of 0.33 percent is at the Newberry Road and NW 62nd Street intersection. The highest modal split of 23.39 percent is at the W University Avenue and NW 17th Street intersection. Overall, there are higher non-motorized modal shares adjacent to the University of Florida campus and downtown Gainesville.

EXHIBIT 1

MULTIMODAL ANALYSIS AT BICYCLE USAGE TREND PROGRAM SITES **GAINESVILLE METROPOLITAN AREA 2009**

^a COUNT LOCATION NUMBER	INTERSECTION	BICYCLE VOLUME	PEDESTRIAN VOLUME	MOTOR SCOOTER VOLUME	MOTORCYCLE VOLUME	AADT VOLUME	^b PERCENT NON-MOTORIZED
13	NW 34 TH Street and NW 39 th Avenue	134	95	98	224	21,400	1.07%
15	S Main Street and SW 2 nd Avenue	645	677	102	61	14,400	9.18%
17	NW 43 rd Street and NW 23 rd Avenue	189	163	126	225	30,884	1.14%
22	SW 34 th Street and SW 20 th Avenue	329	180	460	215	42,500	1.20%
23	SW 13 th Street and SW 16 th Avenue	480	512	291	235	19,133	5.18%
25	SW 34 th Street and SW 2 nd Avenue	457	525	389	291	18,967	5.18%
28	W 13 th Street and W University Avenue	1,191	2,431	886	311	29,000	12.49%
31	SW 23 rd Terrace and Archer Road	628	213	772	448	47,000	1.79%
32	NW 34 th Street and NW 8 th Avenue	257	326	157	142	16,300	3.58%
37	W 17 th Street and W University Avenue	1,734	5,516	1,096	284	31,000	23.39%
40	E.9 th Street and E University Avenue	355	281	28	82	19,200	3.31%
54	NW 23 rd Avenue and NW 83 rd Street	68	44	112	169	15,850	0.71%
55	Newberry Road and NW 62 nd Street	68	84	104	198	46,000	0.33%
	TOTAL	6,535	11,047	4,621	2,885	351,634	5.00%

^a Each location in the program is assigned a number. See Exhibit 2 for the location of each count station.

AADT – Annual Average Daily Traffic Source: Metropolitan Transportation Planning Organization staff.

^b AADT volume minus bicycle and pedestrian volume

NORTH CENTRAL FLORIDA REGIONAL PLANNING COUNCIL TRANSPORTATION PLANNING STAFF

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