

HENNEPIN COUNTY
MINNESOTA

Bike Count Report

2017

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Overview

Introduction

In 2017, Hennepin County conducted 48-hour bicycle counts at 34 locations in the southern half of the county. These sites included the list of regularly scheduled locations that are counted every other year, as well as special counts for capital improvement program (CIP) projects. Staff look to six permanent counter locations across the county to provide year-round data, which is used to calculate Average Annual Daily Bicyclist (AADB) volumes for 48-hour count sites.

This report summarizes the methodology for conducting counts, analyzing count data and the results from the 2017 count program.

Why count?

The primary focus of the bicycle counting program is to track and report bicycle volume information along Hennepin County roadways, including trails adjacent to county roads. Trails owned and maintained by Three Rivers Park District are not included in this program because Three Rivers conducts their own bicycle monitoring program.

There are many reasons to establish and maintain a regular bicycle monitoring program, including:

- Track ridership changes seasonally and annually
- Provide bicycle data to inform and support planning and engineering decisions and identify where additional data is needed
- Determine bicycle volumes that may be used to calculate crash rates
- Track bicycle usage before and after county projects
- Report bicycle data to elected officials, local government agencies, and the general public

Context

Local, regional, and national plans, policies, and trends support the development of a comprehensive bicycle counting program.

- Hennepin County's 2040 Bicycle Transportation Plan calls for development of an automated bicycle counting program.
- Bicycle monitoring aligns with the Hennepin County Transportation Systems Plan.
- Local, state, and federal transportation agencies nationwide are planning and implementing bicycle counting programs. Notably, the Minnesota Department of Transportation has been a leader in researching bicycle counting technologies, providing technical training to local staff, and supplying permanent bicycle counters to agencies throughout the state.

Figure 1 – Hennepin County bicycle count locations

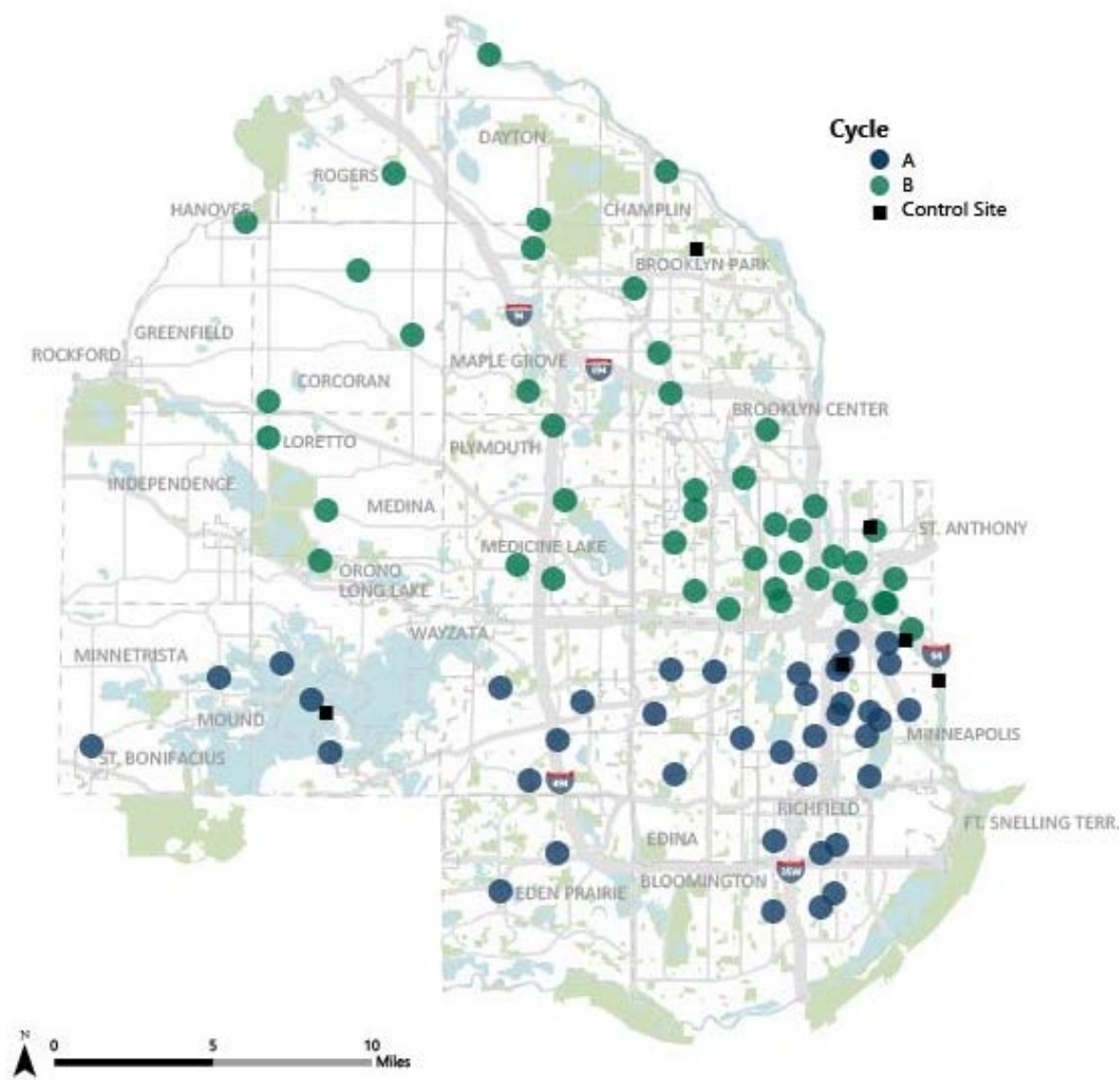
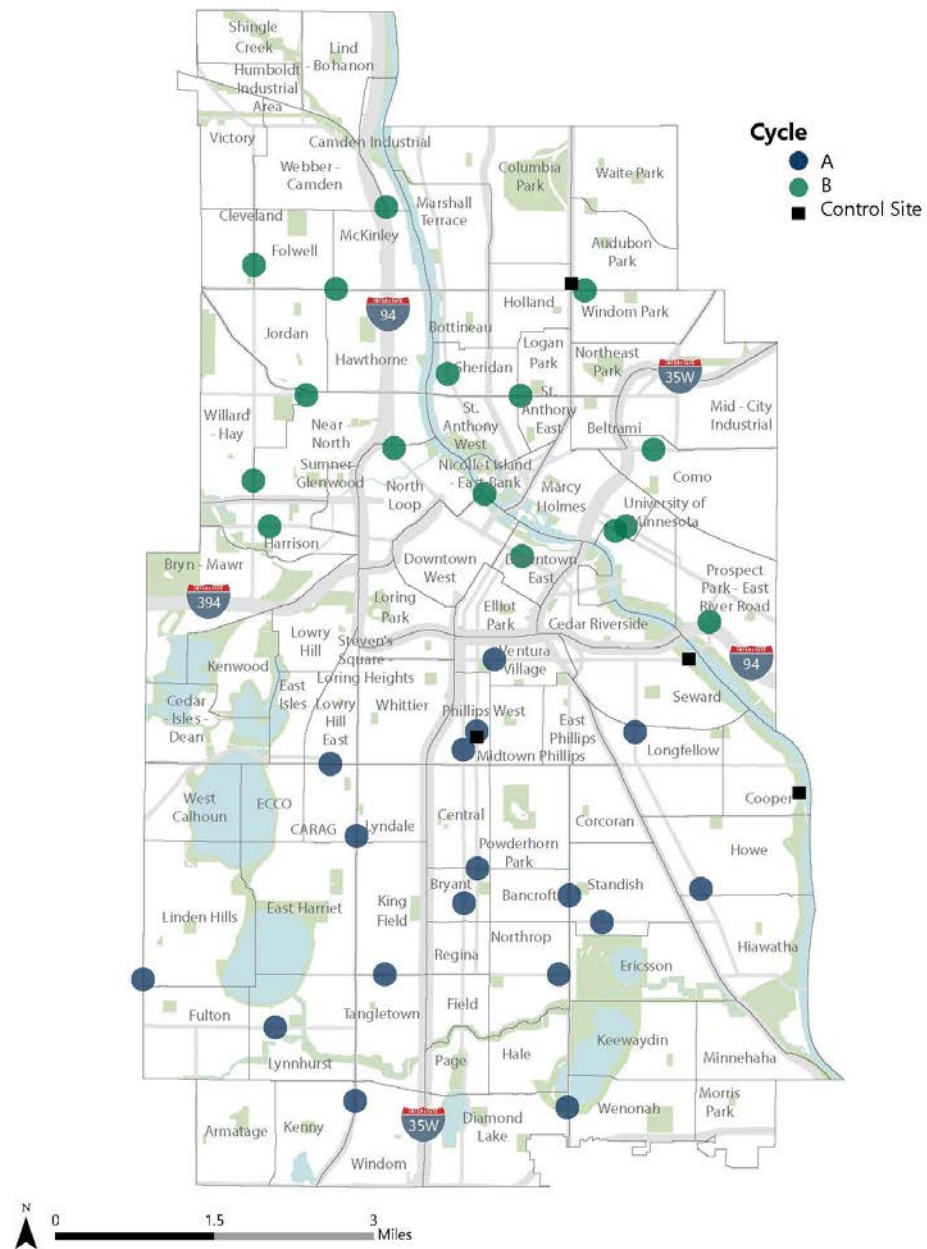


Figure 2 – Hennepin County bicycle count locations in Minneapolis



Materials and methodology

Equipment

Hennepin County uses MetroCount RoadPod tube counters for its bicycle counting program. Tubes are placed across a bikeway or roadway and bicycles are counted when they roll over the tube, compressing it and sending a pulse of air to the MetroCount device. This program uses unique thin-walled tubes specifically designed for counting bicycles.

Data collection

Staff collected count information at 34 locations in southern Hennepin County in 2017. Each location was counted for 48 hours, enabling staff to count at numerous locations with limited time and resources. At each site, tubes were placed in the location expected to be used by the majority of people biking.



In locations with a shoulder or bicycle lane, tubes were placed across the shoulder or bike lane (top two images). Tubes were placed across the entire rightmost traffic lane in the absence of a shoulder or bike lane (bottom left image). In locations with an existing off-street trail adjacent to the roadway, tubes were placed across the trail (bottom right).

Data processing

A one-page report was developed for each count location to illustrate hourly trends at each site. Average Annual Daily Bicyclists (AADB) volumes were calculated for each site using data collected at permanent bicycle count sites.¹ Much like average annual daily traffic (AADT) for motor vehicles, AADB represents the typical bicycle traffic on an average day at each location. AADB controls for weather and other daily influences so that data from all count sites can be compared to each other from year to year.

In addition to calculating AADB, estimates were also developed to measure seasonal variation in ridership during winter (December through February), summer (June through August), and during the months of January and July specifically.

Additional details about annual and seasonal Average Daily Bicyclists (ADB) calculations are located in Appendix A, along with a summary of annual, seasonal, and monthly average bicycle volumes. One-page summary reports for each site including raw data and hourly variation are located in Appendix B.

¹ Data for each permanent bicycle count site was obtained from MnDOT. Staff from MnDOT reviewed the data to identify and remove outliers, identify days with missing data, and used weather factors and same day data from other sites to estimate missing days and even out outliers.

Results

Key findings

How many people are biking?

Over 5,500 people biking were counted at 34 sites across southern Hennepin County in 2017.

The top 5 sites counted in 2017 based on Annual Average Daily Bicyclists (AADB) were:

- Park Avenue South (CSAH 33) & south of 27th Street (394 AADB)
- Portland Avenue South (CSAH 35) & south of 25th Street (193 AADB)²
- Franklin Avenue East (CSAH 5) & east of 27th Street South (156 AADB)
- Franklin Avenue East (CSAH 5) & east of Elliot Avenue / Chicago Avenue (127 AADB)
- Minnehaha Avenue (CSAH 48) & north of 40th St E (122 ADB)

Where are people biking?

People are bicycling throughout Hennepin County. However, the count sites with the highest volumes were concentrated in the urban core, followed by the first ring suburbs.

When are people biking?

In the urban core, the morning peak generally occurred from 6 a.m. – 8 a.m; and the evening peak generally took place from 4 p.m. – 6 p.m. In suburban and rural locations, peaks are less pronounced due to overall lower volumes; however, peaks trended towards evening hours.

² The original count location is Portland Avenue South and south of 28th Street; however, the count site was moved due to construction of the Portland Avenue Bridge over the Midtown Greenway. This construction influences the relatively low count number in comparison to past years.

Figure 3– 2017 bike counts and top 5 sites

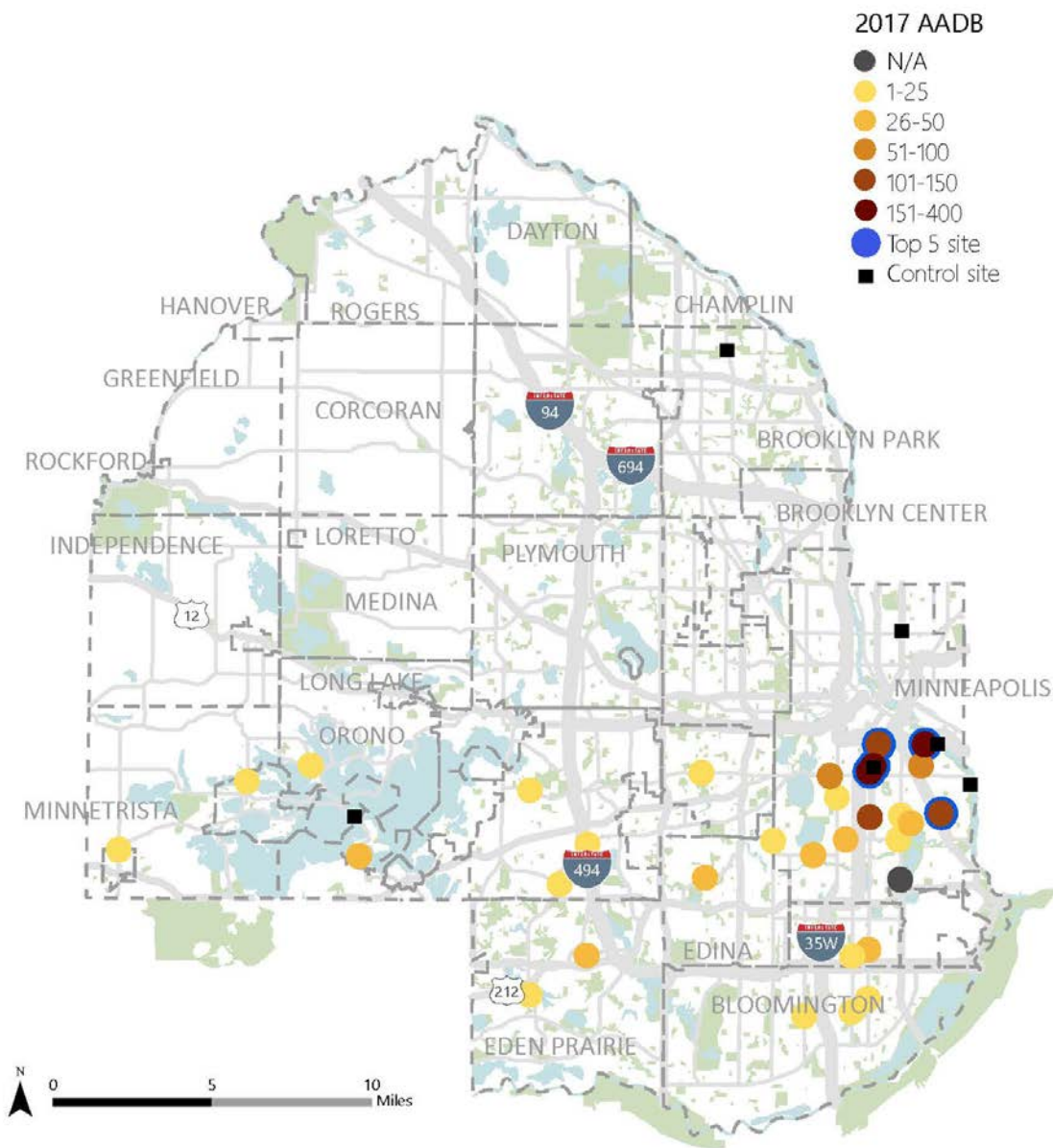
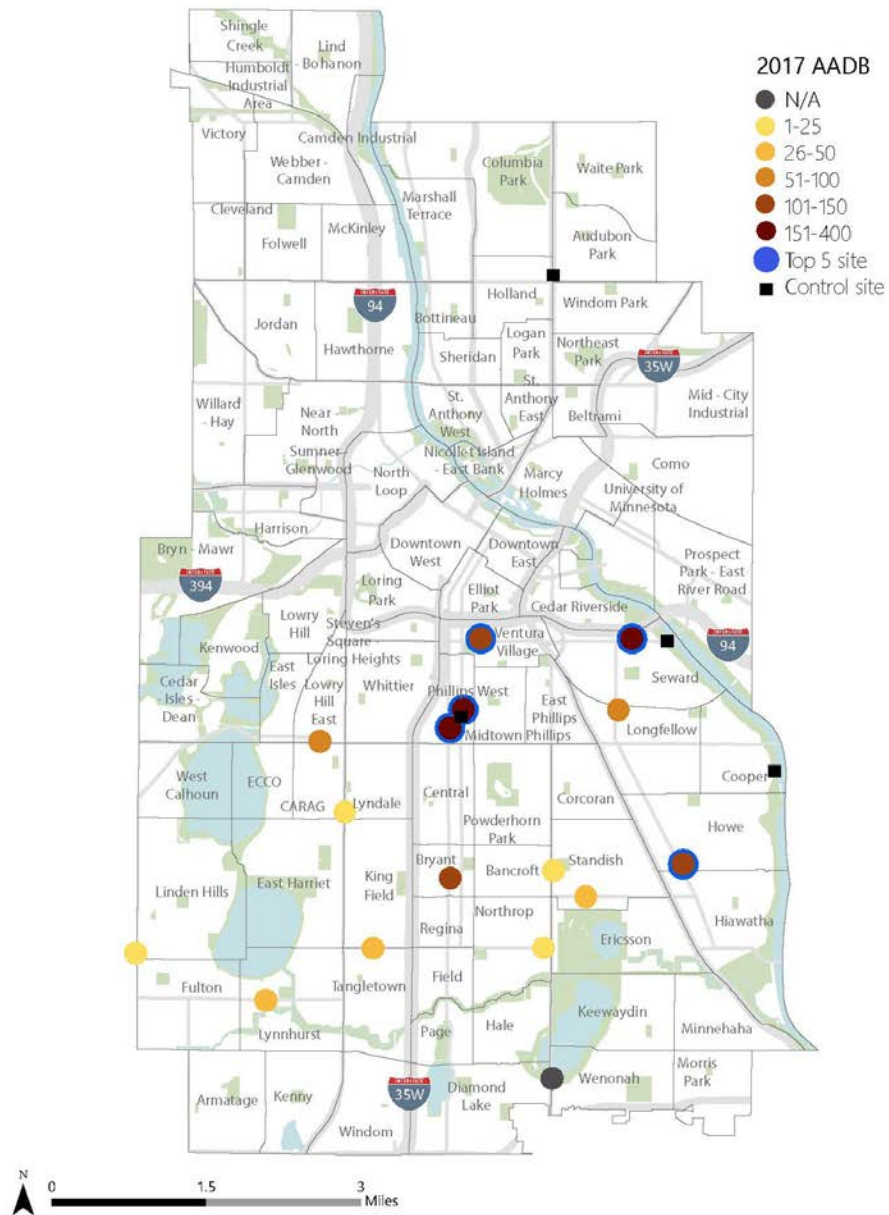


Figure 4 – 2017 bike counts and top 5 sites in Minneapolis



Average annual and seasonal daily bicyclists

Figure 5 shows annual, summer, and winter Average Daily Bicyclist (ADB) estimates for the six control sites. Figure 6 displays the same measures for the 34 locations counted in 2017. Not surprisingly, estimated volumes are higher in summer months.

Individual summary reports were developed for each count site to illustrate raw data and peak hour volumes. These reports can be found in Appendix B.

Figure 5 – Control site bicycle volumes

Counter	Location	AADB	July	Summer	January	Winter
Central Avenue	Central Avenue & north of Lowry Avenue	64	109	105	18	23
Franklin Bridge	Franklin Avenue Bridge	736	1192	1130	216	284
Park Avenue	Park Avenue & north of 28th Street	257	404	391	87	110
Rush Creek Trail	Rush Creek Trail & east of Douglas Drive	190	476	413	9	28
County Road 19	Shadywood Road & south of West Lafayette Road	91	223	183	4	15
West River Greenway	West River Parkway & south of 32nd Street	822	1877	1638	104	178

Figure 6– Annual, summer, and winter average daily bicyclists

Site ID	Location	AADB	July	Summer	January	Winter
3503	Portland Avenue S & N of 74th St	30	47	46	10	13
5202	Nicollet Avenue & N of 76th St	15	24	23	5	6
4601	46th St West & E of Pleasant Ave	38	65	62	11	14
3301	Park Avenue S & S of 27th St	394	618	599	133	168
4802	26th Avenue South & S of Midtown Greenway	79	124	120	27	34
3501	Portland Avenue S & S of 40th St	102	160	155	34	44
4201	42nd St & W of 22nd Ave S	40	63	61	13	17
15101	North Arm Drive & N of Cherry Ave	3	7	6	0	1
1902	Shadywood Rd & S of Crabapple Ln	48	117	97	2	8

11001	Commerce Rd & N of Grandview Blvd/ Sherwood Dr	19	46	38	1	3
6001	Baker Rd & N of Excelsior Blvd	15	37	30	1	3
401	Eden Prairie Rd & S of Boys School Rd / S of Ferris Ln	15	37	30	1	3
504	Minnetonka Blvd & W of Oregon Ave S	9	22	18	0	2
505	Minnetonka Blvd & E of Steele St / E of Fairchild	13	32	26	1	2
303	Lake Street West & E of Dupont	94	160	154	26	34
2202	Lyndale Avenue & N of 36th St	21	36	34	6	8
501	Franklin Avenue E & E of 27th St S	156	252	239	46	60
502	Franklin Avenue E & E of Elliot Ave / E of Chicago	127	216	208	35	46
15201	Cedar Avenue South & N of Nokomis Pkwy	N/A	N/A	N/A	N/A	N/A
15203	Cedar Avenue South & S of E 40th St	7	11	11	2	3
1701	France Ave & N of 47th St	25	61	50	1	4
2101	West 50th St & E of James Ave S / W of Newtown Ave S	36	61	59	10	13
402	Eden Prairie Rd & N of Berger Dr	18	45	39	1	3
3901	Valley View Rd & W of Anagram Dr	27	46	31	10	10
6101	Shady Oak Rd & S of Minnetonka Mills Rd	3	7	6	0	1
9201	County Road 92 North & N of Trista Ln	9	12	6	5	5
503	Minnetonka Blvd & E of Trunk Highway 100	4	5	4	3	3
3502	Portland Avenue S & S of 25th St	193	303	294	65	82
4801	Minnehaha Avenue & N of 40th St E	122	191	186	41	52
3202	Penn Avenue S & N of 91st St	8	14	13	2	3
5201	Nicollet Avenue & N of 90th St	8	20	16	0	1
15801	Vernon Ave S & E of Vernon Ln	31	76	62	1	5
4602	46th St West & E of 17th Ave	15	24	23	5	6
3504	Portland Avenue S & S of 86th St	5	12	10	0	1

Appendix A

Calculating average annual daily bicyclists and seasonal averages

Calculating daily and seasonal averages

Annual and seasonal Average Daily Bicyclists (ADB) were calculated using data from permanent count sites. Permanent counters collect bicycle volumes 365 days per year and can be used to estimate how bicycle traffic on any given day compares to average bicycle traffic from that entire year. This serves as a control for weather and unknown daily factors.

The following permanent counters are used to calculate ADB for count sites:

- Central Avenue north of Lowry Avenue
- Franklin Avenue Bridge
- Park Avenue north of 28th Street
- Rush Creek Trail east of Douglas Drive
- County Road 19 (Shadywood Rd) south of W Lafayette Rd
- West River Parkway south of 32nd Street

Factors such as geographic location, facility type, and role in the bicycle network were considered when selecting the appropriate control site for each short-term count location.

Steps to calculate AADB are as follows:

Data from Site 3503 (Portland Avenue S & N of 74th Street) is used to illustrate AADT calculations below. Central Avenue was selected as the control site for this location.

1. Obtain a chart that lists the hourly traffic at each permanent count site for every hour of 2017.
2. Calculate bike volumes at the selected control site for the exact time period of each 48-hour count.

The count at Site 3503 began at midnight on May 10th and ended at midnight on May 11th. A total of 960 bicyclists were counted at the Park Avenue control site during the same 48-hour period.

3. Divide that number by the total volume for the year at the control site to determine the percent of annual traffic that took place at the control site during the same 48-hour period as the short-term count.

A total of 93,844 bicyclists were counted at the Park Avenue counter in 2017. $960 / 93,844 = 0.01023$. Therefore 1.023% of annual traffic at the Park Avenue control site occurred between midnight on May 10th and midnight on May 11th.

4. Divide the 48-hour raw counts for each short-term site by the percentage calculated in Step 3 to determine the estimated annual traffic at each location.

110 bicyclists were counted at Site 3503 during the 48-hour count period. $110 / 0.01023 = 10,752$. The estimated annual bicycle traffic at Site 3503 is 10,752.

5. Divide the estimated annual traffic at each location by 365 to get Annual Average Daily Bicycle traffic (AADB).

10,752 / 365 = 29. The estimated annual average daily bicycle traffic volumes for Site 3503 is 29.

Steps to calculate monthly or seasonal average are as follows:

Data from Site 3503 (Portland Avenue S & N of 74th Street) is used to illustrate calculations for summer ADT below. Central Avenue was selected as the control site for this location.

1. Follow Steps 1 and 2 above, as you would for calculating AADB, to determine the percent of annual traffic that took place at the control site during the same 48-hour period as the short-term count.

The count at Site 3503 began at midnight on May 10th and ended at midnight on May 11th. A total of 960 bicyclists were counted at the Park Avenue control site during the same 48-hour period.

2. Divide that number by the total volume for the month or season of interest to determine the percent of monthly/seasonal traffic at the control site that occurred during each short-term count.

A total of 35,990 bicycles were counted at Park Avenue in June, July and August. $960 / 35,990 = 0.026674$. Therefore 2.6674% of summer traffic at the Park Avenue control site occurred between midnight on May 10th and midnight on May 11th.

3. Divide the 48-hour raw counts at each location by the percent calculated in Step 2. This will give you the estimated monthly/seasonal bicycle traffic for each short-term count site.

110 bicyclists were counted at Site 3503 during the 48-hour count period. $110 / 0.026674 = 4,124$. The estimated summer bicycle traffic at Site 3503 is 4,124.

4. Divide the estimated monthly/seasonal traffic at the short-term site by the number of days in that time period of interest to get the average daily bicycle traffic for that time period.

There are 92 days total during the months of June, July, and August. $4,124 / 92 = 45$. The estimated daily bicycle traffic in summer for Site 3503 is 45.

For all ADT calculations:

For one-way sites or sites where both directions were counted at the same place at the same time, you are finished. For sites where the 48 hour raw counts are listed separately for each direction because they were calculated at different times or in different places, simply add the ADB for the two directions. Note that if counts were collected in different times or places, you need to calculate ADB independently for each direction – do not combine raw counts unless taken at the exact same time and place.

Appendix B

Count location summary reports

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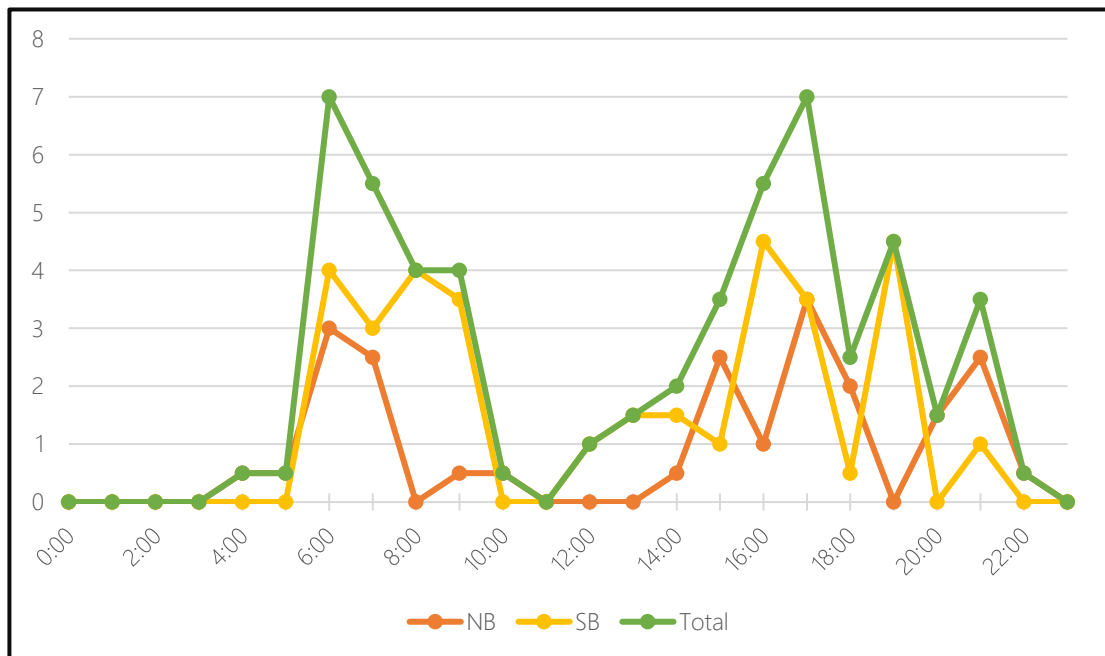
Site ID	Location	Page
3503	Portland Avenue S & N of 74th St	3
5202	Nicollet Avenue & N of 76th St	4
4601	46th St West & E of Pleasant Ave	5
3301	Park Avenue S & S of 27th St	6
4802	26th Avenue South & S of Midtown Greenway	7
3501	Portland Avenue S & S of 40th St	8
4201	42nd St & W of 22nd Ave S	9
15101	North Arm Drive & N of Cherry Ave	10
1902	Shadywood Rd & S of Crabapple Ln	11
11001	Commerce Rd & N of Grandview Blvd/ Sherwood Dr	12
6001	Baker Rd & N of Excelsior Blvd	13
401	Eden Prairie Rd & S of Boys School Rd / S of Ferris Ln	14
504	Minnetonka Blvd & W of Oregon Ave S	15
505	Minnetonka Blvd & E of Steele St / E of Fairchild	16
303	Lake Street West & E of Dupont	17
2202	Lyndale Avenue & N of 36th St	18
501	Franklin Avenue E & E of 27th St S	19
502	Franklin Avenue E & E of Elliot Ave / E of Chicago	20
15201	Cedar Avenue South & N of Nokomis Pkwy	21
15203	Cedar Avenue South & S of E 40th St	22
1701	France Ave & N of 47th St	23
2101	West 50th St & E of James Ave S / W of Newtown Ave S	24
402	Eden Prairie Rd & N of Berger Dr	25
3901	Valley View Rd & W of Anagram Dr	26
6101	Shady Oak Rd & S of Minnetonka Mills Rd	27
9201	County Road 92 North & N of Trista Ln	28
503	Minnetonka Blvd & E of Trunk Highway 100	29
3502	Portland Avenue S & S of 25th St	30
4801	Minnehaha Avenue & N of 40th St E	31
3202	Penn Avenue S & N of 91st St	32
5201	Nicollet Avenue & N of 90th St	33
15801	Vernon Ave S & E of 17 th Ave	34
4602	46 th St West & E of 17 th Ave	35
3504	Portland Avenue S & S of 86 th St	36

Hennepin County Bicycle Monitoring Program

Site code: 3503
 Location: Portland Ave S & N of 74th St

AM peak hour starts at: 6:00 7 bikes
 PM peak hour starts at: 17:00 7 bikes

Time	Wednesday 5/10/2017		Thursday 5/11/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	1	0	0.5	0	0.5
5:00	1	0	0	0	0.5	0	0.5
6:00	2	5	4	3	3	4	7
7:00	3	1	2	5	2.5	3	5.5
8:00	0	4	0	4	0	4	4
9:00	1	6	0	1	0.5	3.5	4
10:00	1	0	0	0	0.5	0	0.5
11:00	0	0	0	0	0	0	0
12:00	0	1	0	1	0	1	1
13:00	0	3	0	0	0	1.5	1.5
14:00	0	1	1	2	0.5	1.5	2
15:00	2	1	3	1	2.5	1	3.5
16:00	1	7	1	2	1	4.5	5.5
17:00	5	3	2	4	3.5	3.5	7
18:00	0	1	4	0	2	0.5	2.5
19:00	0	9	0	0	0	4.5	4.5
20:00	2	0	1	0	1.5	0	1.5
21:00	1	1	4	1	2.5	1	3.5
22:00	1	0	0	0	0.5	0	0.5
23:00	0	0	0	0	0	0	0
Totals	20	43	23	24	21.5	33.5	55
	63		47				



Average Annual Daily
 Bicyclists (AADB)

30

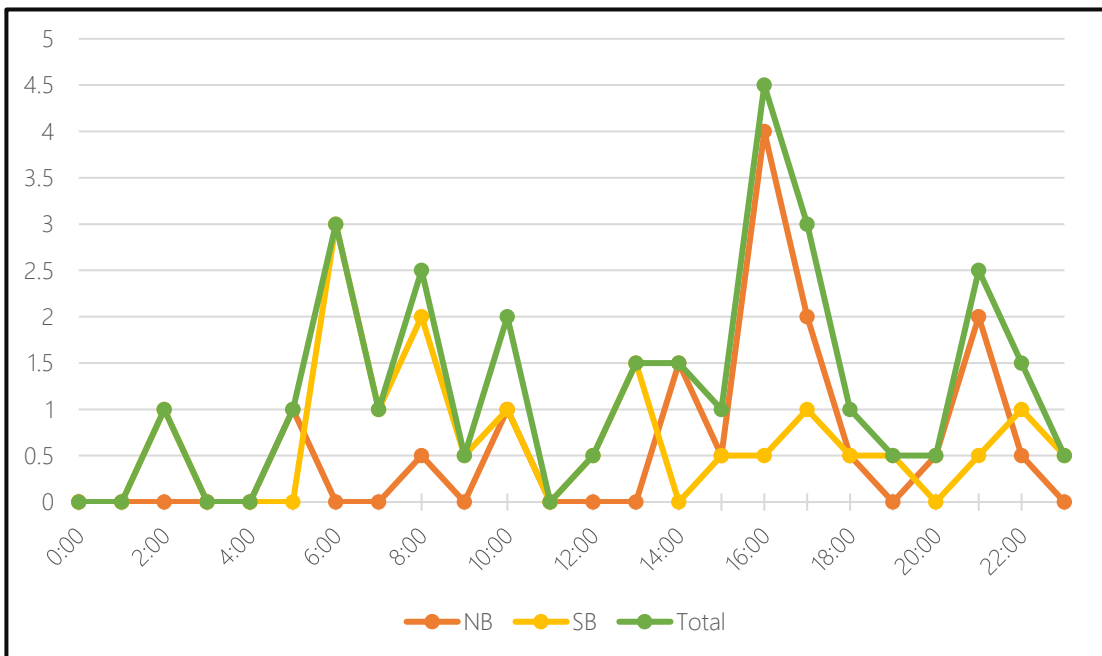


Hennepin County Bicycle Monitoring Program

Site code: 5202
 Location: Nicollet Ave & N of 76th St

AM peak hour starts at: 6:00 **3** bikes
 PM peak hour starts at: 16:00 **4.5** bikes

Time	Wednesday 5/10/2017		Thursday 5/11/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	1	0	1	0	1	1
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	1	0	1	0	1	0	1
6:00	0	3	0	3	0	3	3
7:00	0	0	0	2	0	1	1
8:00	1	3	0	1	0.5	2	2.5
9:00	0	1	0	0	0	0.5	0.5
10:00	2	2	0	0	1	1	2
11:00	0	0	0	0	0	0	0
12:00	0	0	0	1	0	0.5	0.5
13:00	0	1	0	2	0	1.5	1.5
14:00	0	0	3	0	1.5	0	1.5
15:00	0	0	1	1	0.5	0.5	1
16:00	5	0	3	1	4	0.5	4.5
17:00	2	1	2	1	2	1	3
18:00	1	0	0	1	0.5	0.5	1
19:00	0	1	0	0	0	0.5	0.5
20:00	1	0	0	0	0.5	0	0.5
21:00	1	1	3	0	2	0.5	2.5
22:00	0	2	1	0	0.5	1	1.5
23:00	0	0	0	1	0	0.5	0.5
Totals	14	16	14	15	14	15.5	29.5
	30		29				



Average Annual Daily
 Bicyclists (AADB)
15

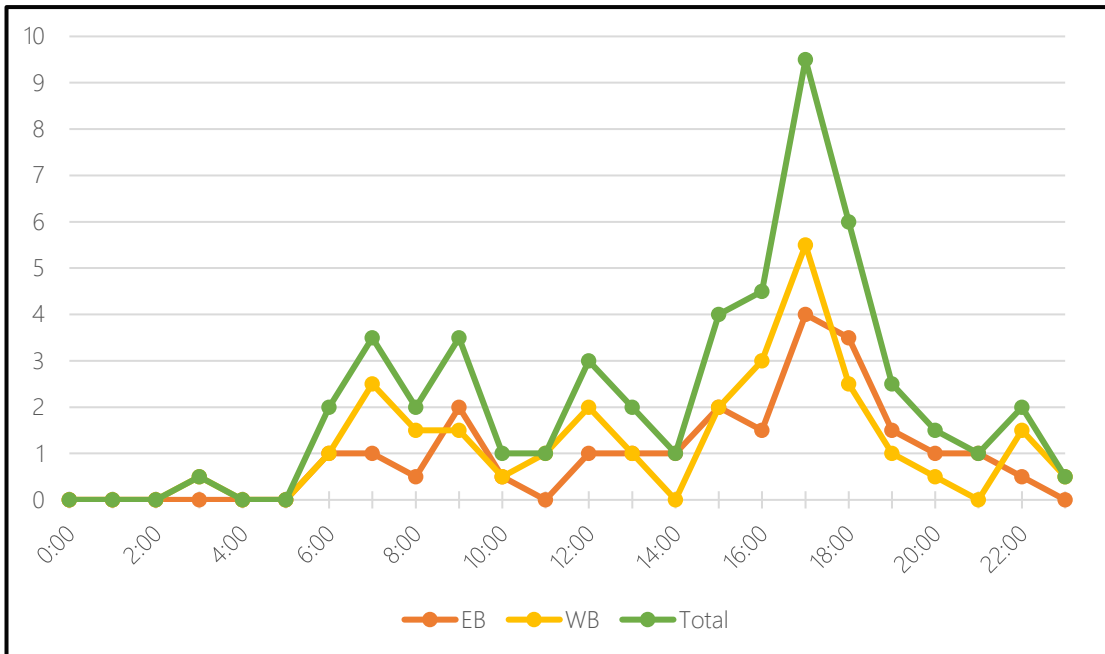


Hennepin County Bicycle Monitoring Program

Site code: 4601
 Location: 46th St W & E of Pleasant Ave

AM peak hour starts at: 7:00 **3.5** bikes
 PM peak hour starts at: 17:00 **9.5** bikes

Time	Tuesday 5/23/2017		Wednesday 5/24/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	1	0	0.5	0.5
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	2	1	0	1	1	1	2
7:00	1	2	1	3	1	2.5	3.5
8:00	1	2	0	1	0.5	1.5	2
9:00	1	3	3	0	2	1.5	3.5
10:00	0	0	1	1	0.5	0.5	1
11:00	0	2	0	0	0	1	1
12:00	0	0	2	4	1	2	3
13:00	0	0	2	2	1	1	2
14:00	1	0	1	0	1	0	1
15:00	3	1	1	3	2	2	4
16:00	0	4	3	2	1.5	3	4.5
17:00	2	2	6	9	4	5.5	9.5
18:00	6	4	1	1	3.5	2.5	6
19:00	0	2	3	0	1.5	1	2.5
20:00	1	1	1	0	1	0.5	1.5
21:00	1	0	1	0	1	0	1
22:00	0	2	1	1	0.5	1.5	2
23:00	0	0	0	1	0	0.5	0.5
Totals	19	26	27	30	23	28	51
	45		57				



Average Annual Daily
 Bicyclists (AADB)

38

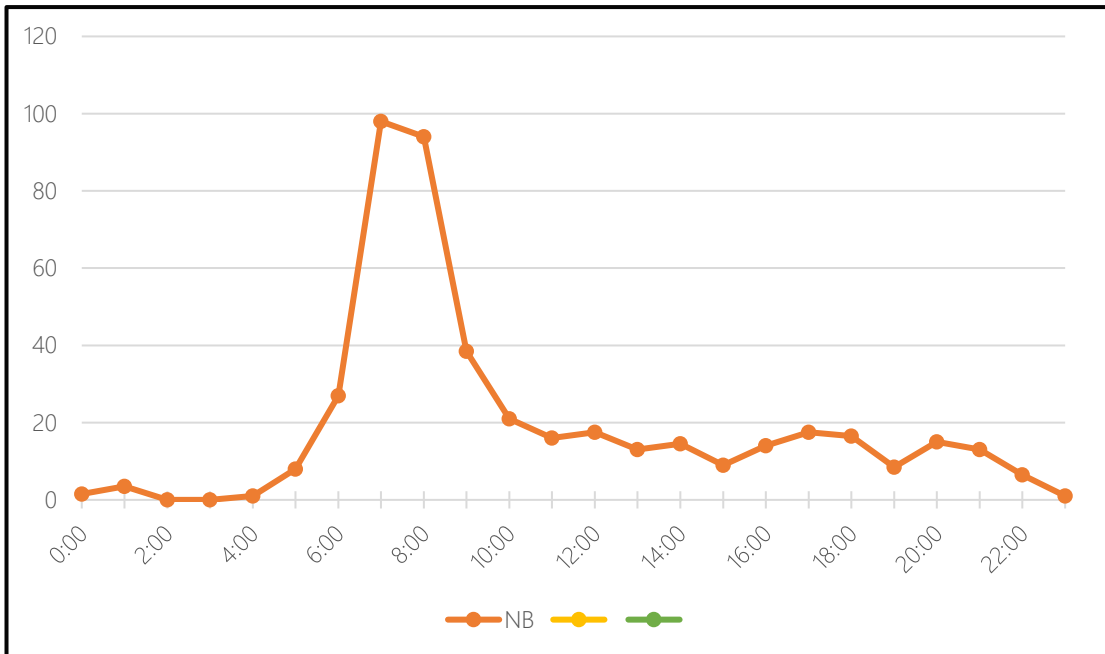


Hennepin County Bicycle Monitoring Program

Site code: 3301
 Location: Park Ave S & S of 27th St

AM peak hour starts at: 7:00 **98** bikes
 PM peak hour starts at: 12:00 **17.5** bikes

Time	Tuesday 6/6/2017	Wednesday 6/7/2017	Daily Average	
	NB	NB	NB	Total
0:00	1	2	1.5	1.5
1:00	2	5	3.5	3.5
2:00	0	0	0	0
3:00	0	0	0	0
4:00	1	1	1	1
5:00	10	6	8	8
6:00	33	21	27	27
7:00	94	102	98	98
8:00	99	89	94	94
9:00	47	30	38.5	38.5
10:00	16	26	21	21
11:00	18	14	16	16
12:00	21	14	17.5	17.5
13:00	12	14	13	13
14:00	12	17	14.5	14.5
15:00	11	7	9	9
16:00	9	19	14	14
17:00	11	24	17.5	17.5
18:00	17	16	16.5	16.5
19:00	9	8	8.5	8.5
20:00	11	19	15	15
21:00	11	15	13	13
22:00	4	9	6.5	6.5
23:00	1	1	1	1
Totals	450	459	454.5	454.5



Average Annual Daily
 Bicyclists (AADB)
394

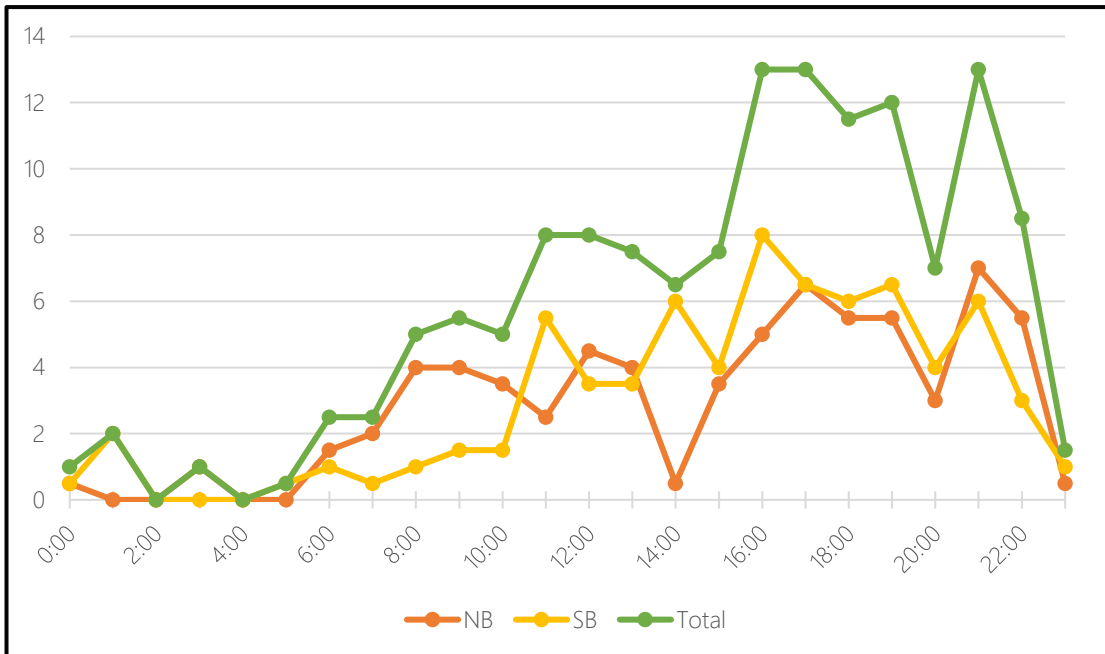


Hennepin County Bicycle Monitoring Program

Site code: 4802
 Location: 26th Ave S & S of Midtown Greenway

AM peak hour starts at: 11:00 **8** bikes
 PM peak hour starts at: 16:00 **13** bikes

Time	Monday 6/19/2017		Tuesday 6/20/2017		Wednesday 6/21/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Total
0:00			0	0	1	1	0.5	0.5	1
1:00			0	2	0	2	0	2	2
2:00			0	0	0	0	0	0	0
3:00			1	0	1	0	1	0	1
4:00			0	0	0	0	0	0	0
5:00			0	0	0	1	0	0.5	0.5
6:00			0	0	3	2	1.5	1	2.5
7:00			1	0	3	1	2	0.5	2.5
8:00			3	2	5	0	4	1	5
9:00			3	1	5	2	4	1.5	5.5
10:00			5	1	2	2	3.5	1.5	5
11:00			2	5	3	6	2.5	5.5	8
12:00			5	3	4	4	4.5	3.5	8
13:00			4	5	4	2	4	3.5	7.5
14:00			1	4	0	8	0.5	6	6.5
15:00	4	5	3	3			3.5	4	7.5
16:00	6	7	4	9			5	8	13
17:00	8	6	5	7			6.5	6.5	13
18:00	1	5	10	7			5.5	6	11.5
19:00	3	5	8	8			5.5	6.5	12
20:00	2	2	4	6			3	4	7
21:00	5	6	9	6			7	6	13
22:00	6	3	5	3			5.5	3	8.5
23:00	0	0	1	2			0.5	1	1.5
Totals	35	39	74	74	31	31	70	72	142
	74		148		31				



Average Annual Daily
 Bicyclists (AADB)

79

Note: Construction two blocks north may have impacted bicycle travel patterns.

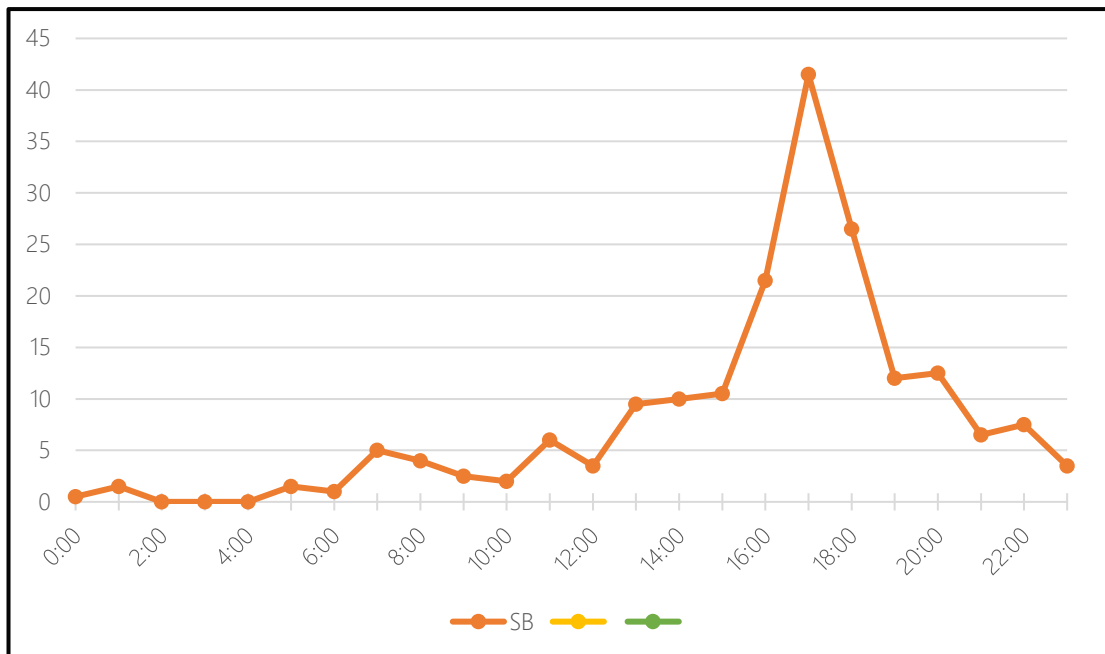


Hennepin County Bicycle Monitoring Program

Site code: 3501
 Location: Portland Ave S & S of 40th St

AM peak hour starts at: 11:00 **6** bikes
 PM peak hour starts at: 17:00 **41.5** bikes

Time	Tuesday 6/20/2017	Wednesday 6/21/2017	Daily Average	
	SB	SB	SB	Total
0:00	0	1	0.5	0.5
1:00	2	1	1.5	1.5
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	1	2	1.5	1.5
6:00	1	1	1	1
7:00	1	9	5	5
8:00	2	6	4	4
9:00	1	4	2.5	2.5
10:00	3	1	2	2
11:00	9	3	6	6
12:00	2	5	3.5	3.5
13:00	8	11	9.5	9.5
14:00	9	11	10	10
15:00	7	14	10.5	10.5
16:00	20	23	21.5	21.5
17:00	34	49	41.5	41.5
18:00	22	31	26.5	26.5
19:00	12	12	12	12
20:00	17	8	12.5	12.5
21:00	7	6	6.5	6.5
22:00	9	6	7.5	7.5
23:00	2	5	3.5	3.5
Totals	169	209	189	189



Average Annual Daily
 Bicyclists (AADB)
102

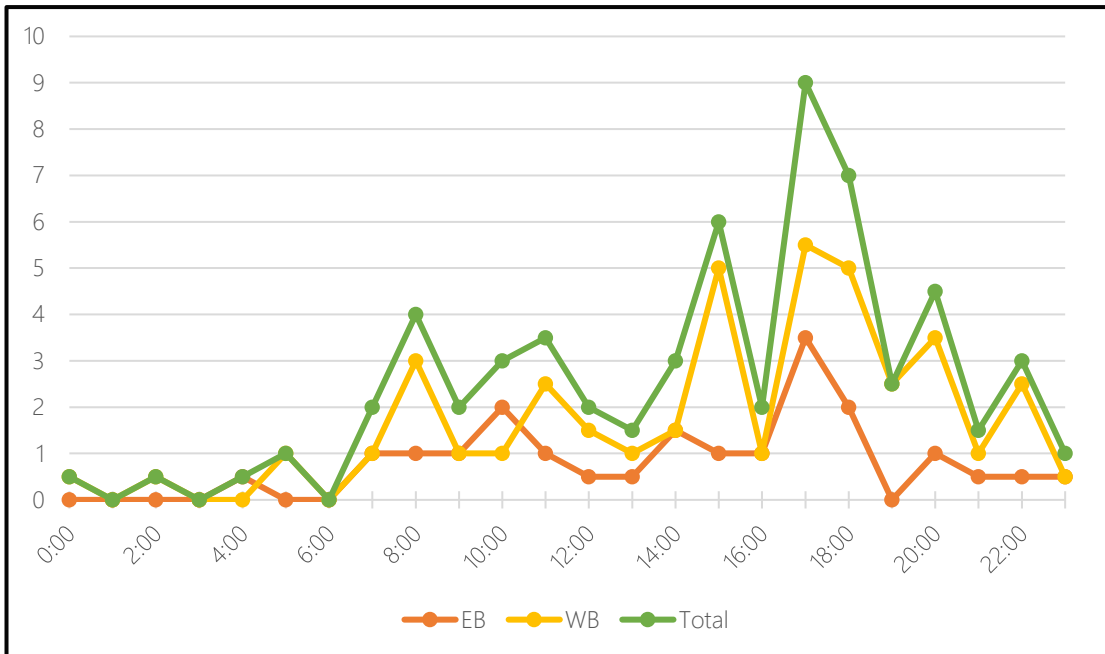


Hennepin County Bicycle Monitoring Program

Site code: 4201
 Location: 42nd St & W of 22nd Ave S

AM peak hour starts at: 8:00 4 bikes
 PM peak hour starts at: 17:00 9 bikes

Time	Wednesday 6/28/2017		Thursday 6/29/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	1	0	0.5	0.5
1:00	0	0	0	0	0	0	0
2:00	0	1	0	0	0	0.5	0.5
3:00	0	0	0	0	0	0	0
4:00	1	0	0	0	0.5	0	0.5
5:00	0	0	0	2	0	1	1
6:00	0	0	0	0	0	0	0
7:00	0	1	2	1	1	1	2
8:00	0	1	2	5	1	3	4
9:00	0	1	2	1	1	1	2
10:00	0	0	4	2	2	1	3
11:00	2	1	0	4	1	2.5	3.5
12:00	0	0	1	3	0.5	1.5	2
13:00	1	1	0	1	0.5	1	1.5
14:00	2	0	1	3	1.5	1.5	3
15:00	2	6	0	4	1	5	6
16:00	2	0	0	2	1	1	2
17:00	1	3	6	8	3.5	5.5	9
18:00	2	6	2	4	2	5	7
19:00	0	3	0	2	0	2.5	2.5
20:00	1	3	1	4	1	3.5	4.5
21:00	0	1	1	1	0.5	1	1.5
22:00	0	2	1	3	0.5	2.5	3
23:00	1	1	0	0	0.5	0.5	1
Totals	15	31	23	51	19	41	60
	46		74				



Average Annual Daily
 Bicyclists (AADB)

40

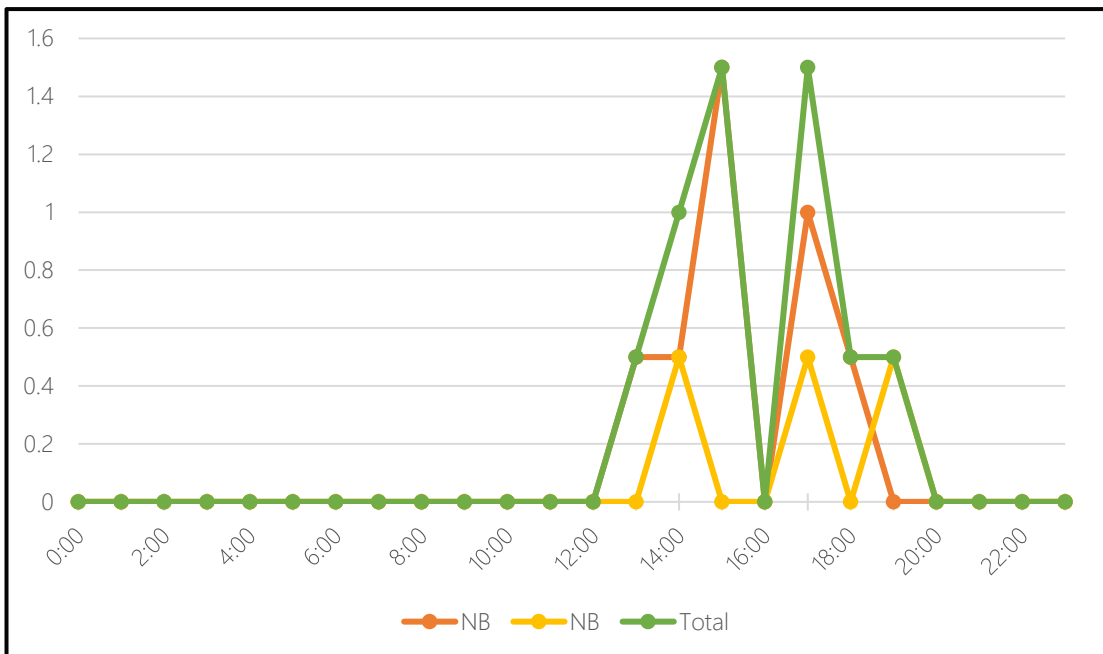


Hennepin County Bicycle Monitoring Program

Site code: 15101
 Location: North Arm Dr & N of Cherry Ave

AM peak hour starts at: 0:00 0 bikes
 PM peak hour starts at: 15:00 1.5 bikes

Time	Wednesday 6/28/2017		Thursday 6/29/2017		Daily Average		Total
	NB	NB	NB	NB	NB	NB	
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0
13:00	0	0	1	0	0.5	0	0.5
14:00	1	0	0	1	0.5	0.5	1
15:00	1	0	2	0	1.5	0	1.5
16:00	0	0	0	0	0	0	0
17:00	1	1	1	0	1	0.5	1.5
18:00	1	0	0	0	0.5	0	0.5
19:00	0	0	0	1	0	0.5	0.5
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	4	1	4	2	4	1.5	5.5



Average Annual Daily
 Bicyclists (AADB)
3

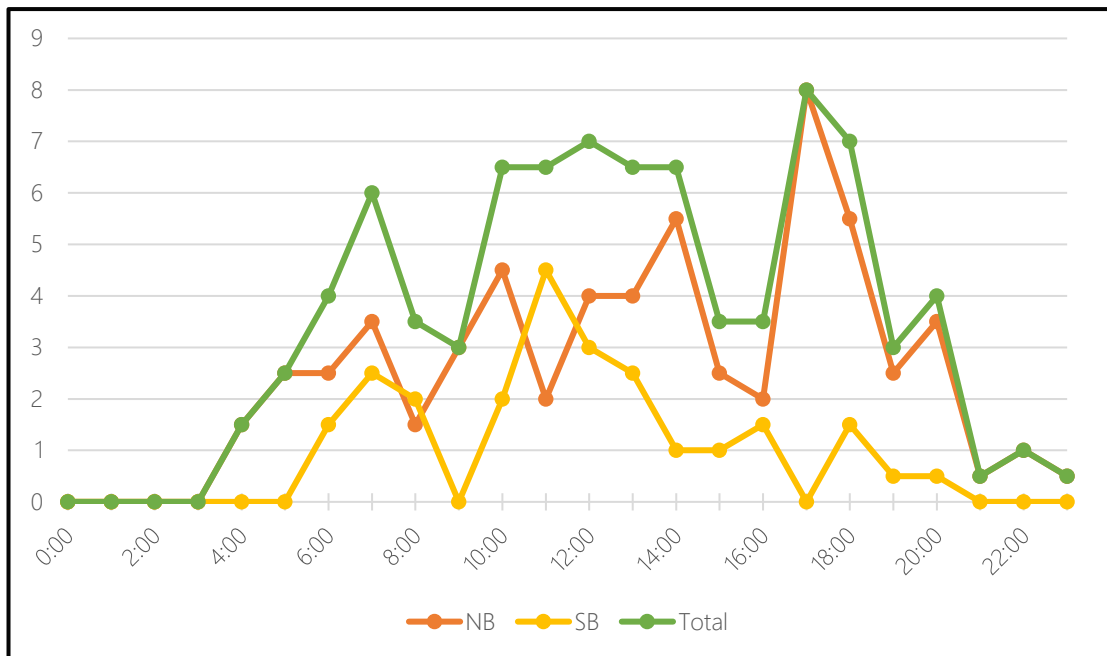


Hennepin County Bicycle Monitoring Program

Site code: 1902
 Location: Shadywood Rd & S of Crabapple Ln

AM peak hour starts at: 10:00 **6.5** bikes
 PM peak hour starts at: 17:00 **8** bikes

Time	Wednesday 7/12/2017		Thursday 7/13/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	1	0	2	0	1.5	0	1.5
5:00	0	0	5	0	2.5	0	2.5
6:00	2	2	3	1	2.5	1.5	4
7:00	2	5	5	0	3.5	2.5	6
8:00	1	2	2	2	1.5	2	3.5
9:00	4	0	2	0	3	0	3
10:00	6	2	3	2	4.5	2	6.5
11:00	1	5	3	4	2	4.5	6.5
12:00	6	4	2	2	4	3	7
13:00	5	1	3	4	4	2.5	6.5
14:00	4	0	7	2	5.5	1	6.5
15:00	4	0	1	2	2.5	1	3.5
16:00	3	0	1	3	2	1.5	3.5
17:00	11	0	5	0	8	0	8
18:00	6	0	5	3	5.5	1.5	7
19:00	5	0	0	1	2.5	0.5	3
20:00	4	0	3	1	3.5	0.5	4
21:00	1	0	0	0	0.5	0	0.5
22:00	1	0	1	0	1	0	1
23:00	1	0	0	0	0.5	0	0.5
Totals	68	21	53	27	60.5	24	84.5
	89		80				



Average Annual Daily
 Bicyclists (AADB)

48

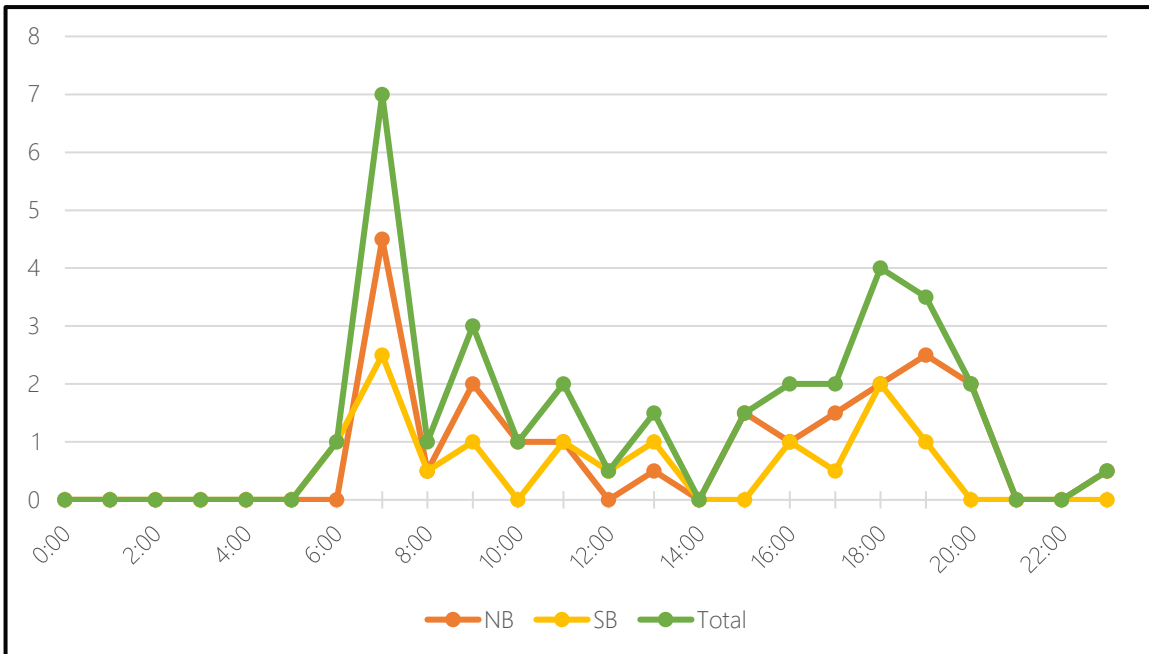


Hennepin County Bicycle Monitoring Program

Site code: 11001
 Location: Commerce Rd & N of Grandview Blvd / Sherwood Dr

AM peak hour starts at: 7:00 7 bikes
 PM peak hour starts at: 18:00 4 bikes

Time	Wednesday 7/12/2017		Thursday 7/13/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	2	0	1	1
7:00	1	1	8	4	4.5	2.5	7
8:00	1	0	0	1	0.5	0.5	1
9:00	3	2	1	0	2	1	3
10:00	2	0	0	0	1	0	1
11:00	1	0	1	2	1	1	2
12:00	0	1	0	0	0	0.5	0.5
13:00	1	0	0	2	0.5	1	1.5
14:00	0	0	0	0	0	0	0
15:00	2	0	1	0	1.5	0	1.5
16:00	1	2	1	0	1	1	2
17:00	2	1	1	0	1.5	0.5	2
18:00	2	2	2	2	2	2	4
19:00	3	2	2	0	2.5	1	3.5
20:00	4	0	0	0	2	0	2
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	1	0	0	0	0.5	0	0.5
Totals	24	11	17	13	20.5	12	32.5
	35		30				



Average Annual Daily
 Bicyclists (AADB)

19

Note: Observed one person bicycling in the shoulder and three people bicycling on the sidewalk. Data is likely an undercount of total bicyclists using the corridor.

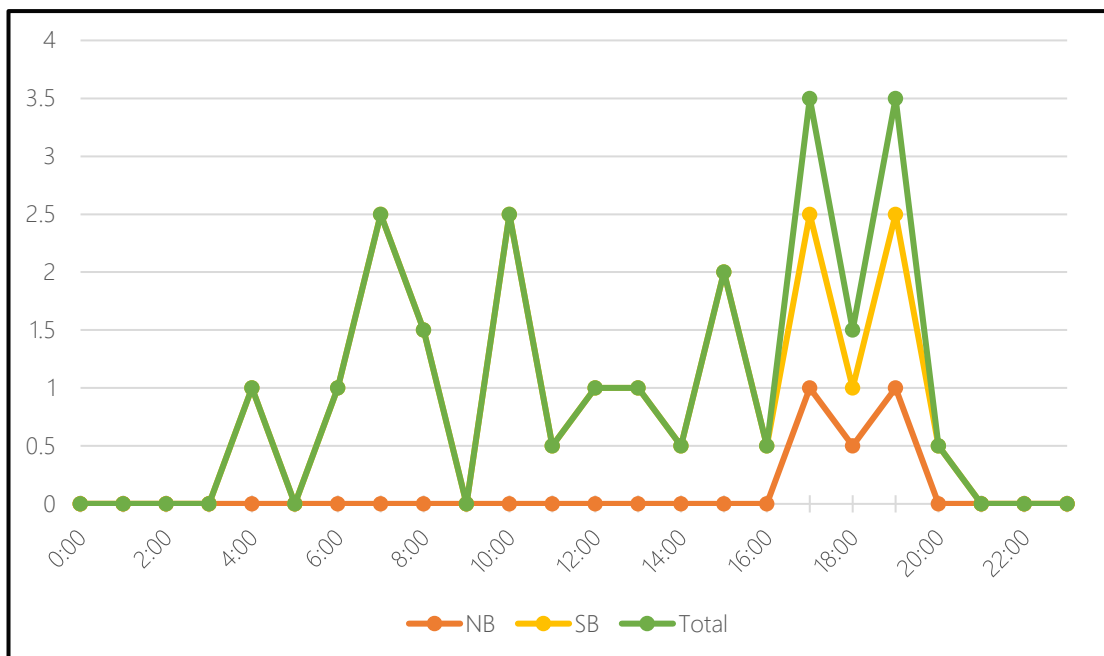


Hennepin County Bicycle Monitoring Program

Site code: 6001
 Location: Baker Rd & N of Excelsior Blvd

AM peak hour starts at: 7:00 **2.5** bikes
 PM peak hour starts at: 17:00 **3.5** bikes

Time	Tuesday 7/18/2017		Wednesday 7/19/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	2	0	1	1
5:00	0	0	0	0	0	0	0
6:00	0	0	0	2	0	1	1
7:00	0	1	0	3	0	2.5	2.5
8:00	0	0	0	3	0	1.5	1.5
9:00	0	0	0	0	0	0	0
10:00	0	0	0	4	0	2.5	2.5
11:00	0	0	0	1	0	0.5	0.5
12:00	0	0	0	2	0	1	1
13:00	0	2	0	0	0	1	1
14:00	0	0	0	1	0	0.5	0.5
15:00	0	0	0	4	0	2	2
16:00	0	0	0	1	0	0.5	0.5
17:00	0	1	2	3	1	2.5	3.5
18:00	1	0	0	1	0.5	1	1.5
19:00	0	3	2	2	1	2.5	3.5
20:00	0	1	0	0	0	0.5	0.5
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	1	9	4	33	2.5	20.5	23



Average Annual Daily
 Bicyclists (AADB)

15

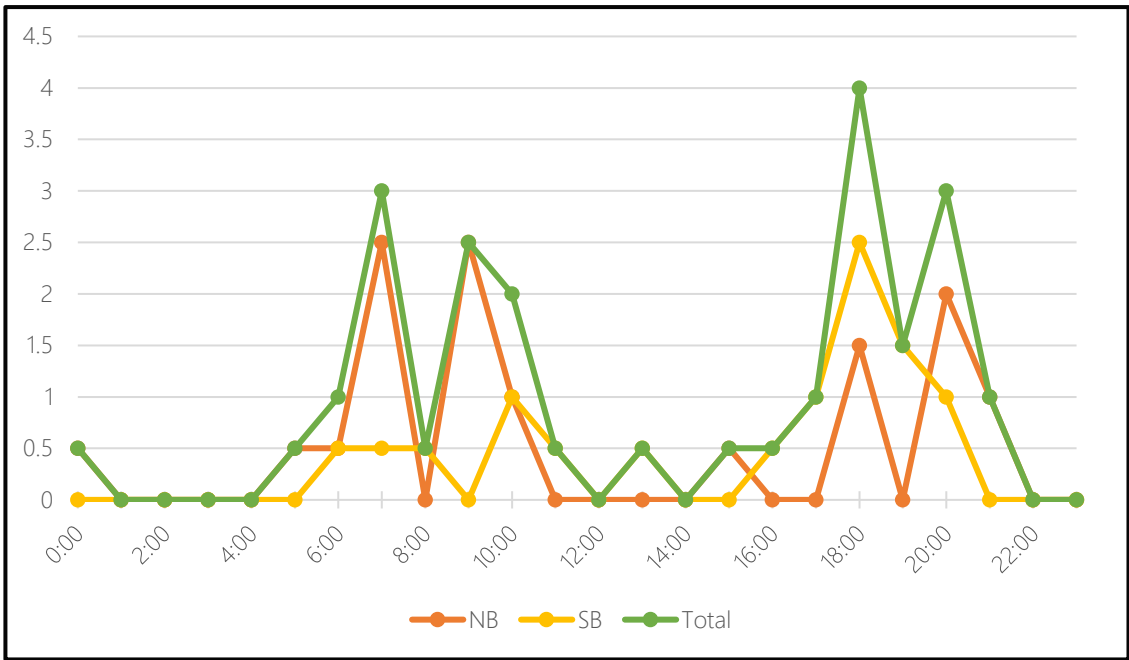


Hennepin County Bicycle Monitoring Program

Site code: 401
 Location: Eden Prairie Rd & S of Boys School Rd / Ferris Ln

AM peak hour starts at: 7:00 3 bikes
 PM peak hour starts at: 18:00 4 bikes

Time	Tuesday 7/18/2017		Wednesday 7/19/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	1	0	0.5	0	0.5
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	1	0	0.5	0	0.5
6:00	0	0	1	1	0.5	0.5	1
7:00	1	1	4	0	2.5	0.5	3
8:00	0	0	0	1	0	0.5	0.5
9:00	1	0	2	0	2.5	0	2.5
10:00	0	1	2	1	1	1	2
11:00	0	0	0	1	0	0.5	0.5
12:00	0	0	0	0	0	0	0
13:00	0	0	0	1	0	0.5	0.5
14:00	0	0	0	0	0	0	0
15:00	1	0	0	0	0.5	0	0.5
16:00	0	1	0	0	0	0.5	0.5
17:00	0	0	0	2	0	1	1
18:00	1	3	2	2	1.5	2.5	4
19:00	0	2	0	1	0	1.5	1.5
20:00	2	2	1	0	2	1	3
21:00	1	0	1	0	1	0	1
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	7	10	15	10	12.5	10	22.5



Average Annual Daily
 Bicyclists (AADB)
15

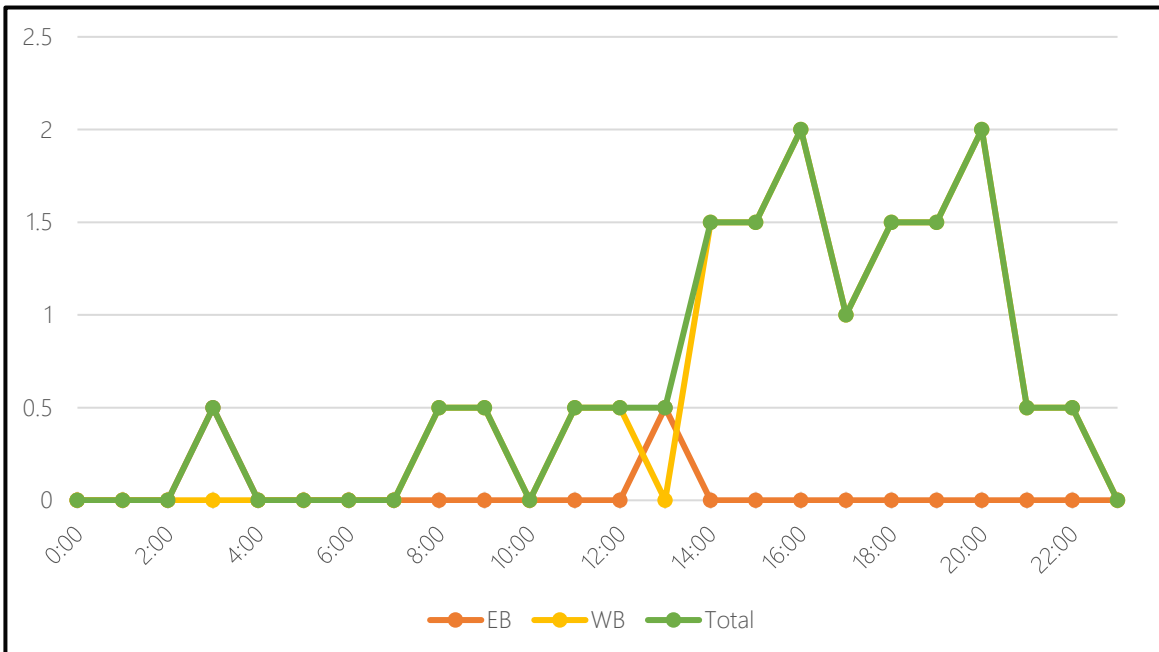


Hennepin County Bicycle Monitoring Program

Site code: 504
 Location: Minnetonka Blvd & W of Oregon Ave S

AM peak hour starts at: 3:00 **0.5** bikes
 PM peak hour starts at: 16:00 **2** bikes

Time	Wednesday 7/26/2017		Thursday 7/27/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	1	0	0	0	0.5	0	0.5
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	1	0	0.5	0.5
9:00	0	0	0	1	0	0.5	0.5
10:00	0	0	0	0	0	0	0
11:00	0	1	0	0	0	0.5	0.5
12:00	0	0	0	1	0	0.5	0.5
13:00	0	0	1	0	0.5	0	0.5
14:00	0	3	0	0	0	1.5	1.5
15:00	0	2	0	1	0	1.5	1.5
16:00	0	3	0	1	0	2	2
17:00	0	1	0	1	0	1	1
18:00	0	0	0	3	0	1.5	1.5
19:00	0	0	0	3	0	1.5	1.5
20:00	0	0	0	3	0	2	2
21:00	0	0	0	1	0	0.5	0.5
22:00	0	0	0	1	0	0.5	0.5
23:00	0	0	0	0	0	0	0
Totals	1	10	1	17	1	14	15



Average Annual Daily
Bicyclists (AADB)

9

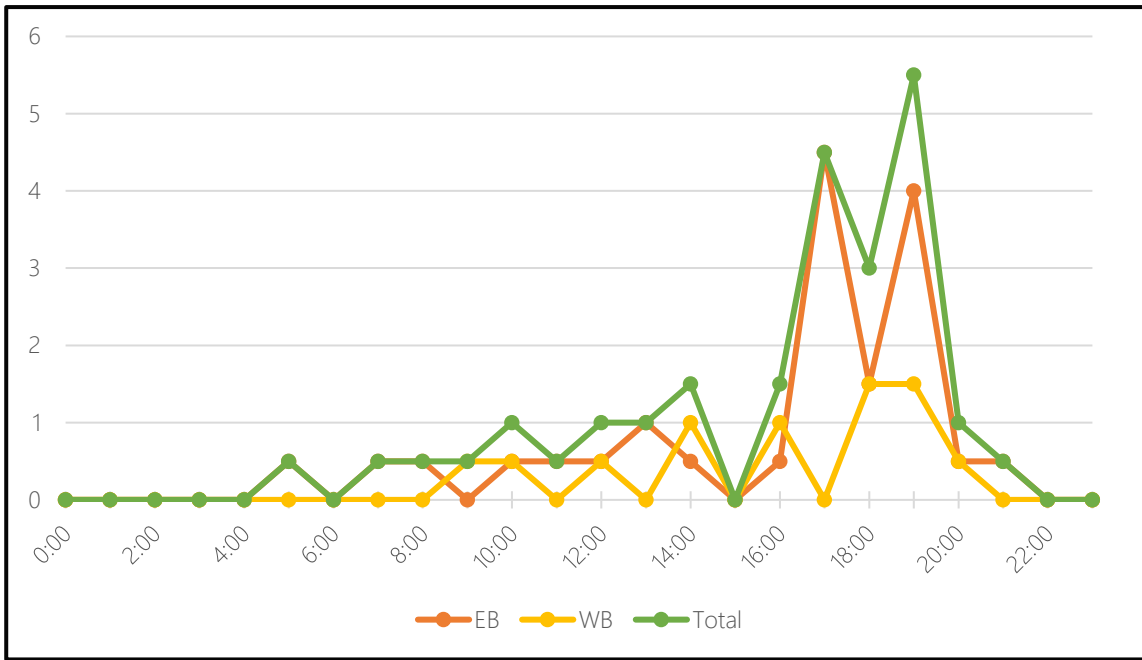


Hennepin County Bicycle Monitoring Program

Site code: 505
 Location: Minnetonka Blvd & E of Steele St / Fairchild Ave

AM peak hour starts at: 10:00 **1** bikes
 PM peak hour starts at: 19:00 **5.5** bikes

Time	Wednesday 7/26/2017		Thursday 7/27/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	1	0	0.5	0	0.5
6:00	0	0	0	0	0	0	0
7:00	0	0	1	0	0.5	0	0.5
8:00	0	0	1	0	0.5	0	0.5
9:00	0	0	0	1	0	0.5	0.5
10:00	0	0	1	1	0.5	0.5	1
11:00	0	0	1	0	0.5	0	0.5
12:00	0	1	1	0	0.5	0.5	1
13:00	1	0	1	0	1	0	1
14:00	0	0	1	2	0.5	1	1.5
15:00	0	0	0	0	0	0	0
16:00	0	1	1	1	0.5	1	1.5
17:00	5	0	3	0	4.5	0	4.5
18:00	1	0	2	3	1.5	1.5	3
19:00	6	0	1	3	4	1.5	5.5
20:00	0	0	1	1	0.5	0.5	1
21:00	0	0	1	0	0.5	0	0.5
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	13	2	17	12	16	7	23
	15		29				



Average Annual Daily Bicyclists (AADB)
13

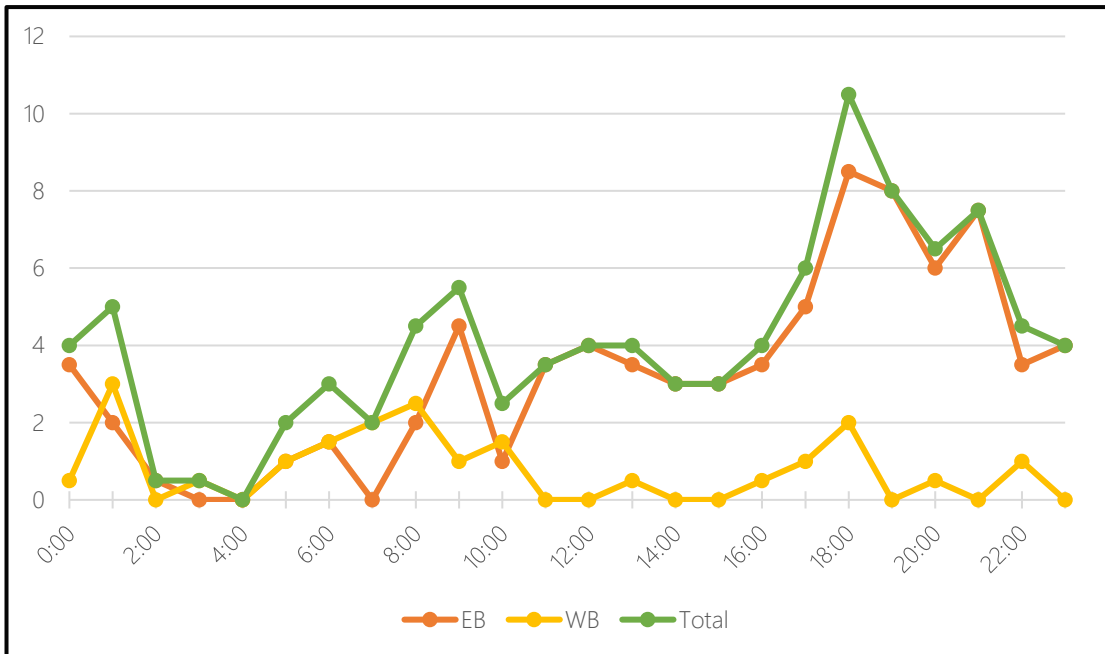


Hennepin County Bicycle Monitoring Program

Site code: 303
 Location: Lake St W & E of Dupont Ave S

AM peak hour starts at: 9:00 **5.5** bikes
 PM peak hour starts at: 18:00 **10.5** bikes

Time	Wednesday 8/9/2017		Thursday 8/10/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	6	1	1	0	3.5	0.5	4
1:00	2	6	2	0	2	3	5
2:00	1	0	0	0	0.5	0	0.5
3:00	0	1	0	0	0	0.5	0.5
4:00	0	0	0	0	0	0	0
5:00	0	2	2	0	1	1	2
6:00	2	2	1	1	1.5	1.5	3
7:00	0	3	0	1	0	2	2
8:00	1	4	3	1	2	2.5	4.5
9:00	6	2	3	0	4.5	1	5.5
10:00	0	2	2	1	1	1.5	2.5
11:00	1	0	6	0	3.5	0	3.5
12:00	1	0	7	0	4	0	4
13:00	3	0	4	1	3.5	0.5	4
14:00	0	0	6	0	3	0	3
15:00	1	0	5	0	3	0	3
16:00	5	0	2	1	3.5	0.5	4
17:00	1	0	9	2	5	1	6
18:00	5	0	12	4	8.5	2	10.5
19:00	4	0	12	0	8	0	8
20:00	6	0	6	1	6	0.5	6.5
21:00	7	0	8	0	7.5	0	7.5
22:00	2	1	5	1	3.5	1	4.5
23:00	4	0	4	0	4	0	4
Totals	58	24	100	14	79	19	98
	82		114		98		



Average Annual Daily
 Bicyclists (AADB)

94

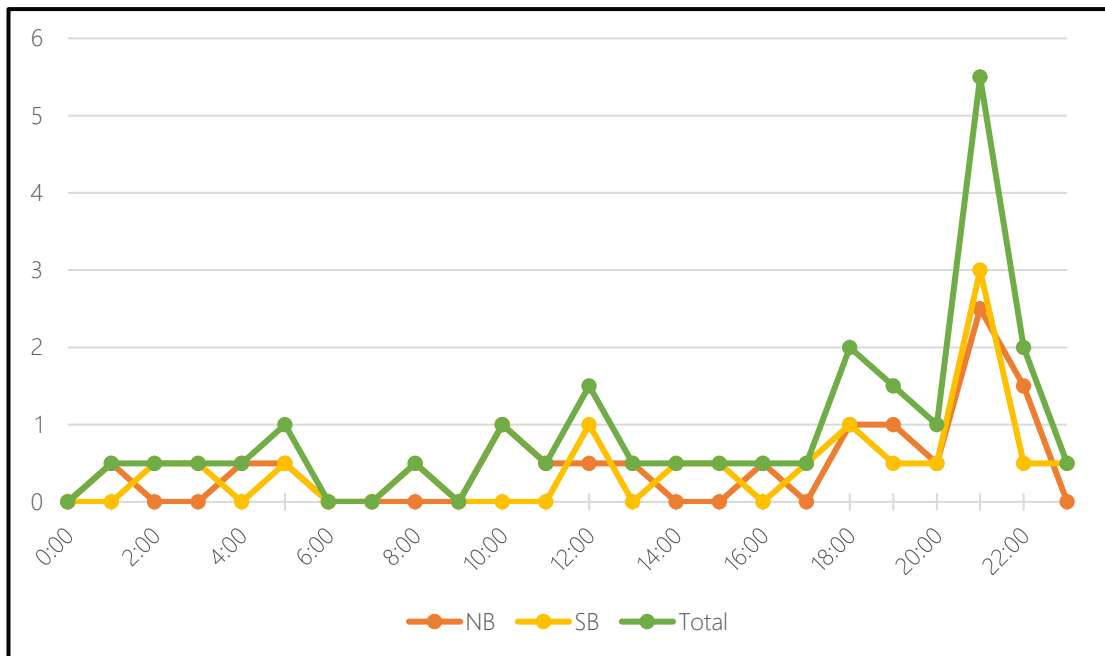


Hennepin County Bicycle Monitoring Program

Site code: 2202
 Location: Lyndale Ave & N of 36th St

AM peak hour starts at: 5:00 **1** bikes
 PM peak hour starts at: 21:00 **5.5** bikes

Time	Wednesday 8/9/2017		Thursday 8/10/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	1	0	0.5	0	0.5
2:00	0	0	0	1	0	0.5	0.5
3:00	0	1	0	0	0	0.5	0.5
4:00	1	0	0	0	0.5	0	0.5
5:00	1	0	0	1	0.5	0.5	1
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	1	0	0.5	0.5
9:00	0	0	0	0	0	0	0
10:00	1	0	1	0	1	0	1
11:00	0	0	1	0	0.5	0	0.5
12:00	0	1	1	1	0.5	1	1.5
13:00	0	0	1	0	0.5	0	0.5
14:00	0	1	0	0	0	0.5	0.5
15:00	0	0	0	1	0	0.5	0.5
16:00	0	0	1	0	0.5	0	0.5
17:00	0	0	0	1	0	0.5	0.5
18:00	0	0	2	2	1	1	2
19:00	0	0	2	1	1	0.5	1.5
20:00	0	0	1	1	0.5	0.5	1
21:00	5	1	0	5	2.5	3	5.5
22:00	0	0	3	1	1.5	0.5	2
23:00	0	0	0	1	0	0.5	0.5
Totals	8	4	14	17	11	10.5	21.5



Average Annual Daily
 Bicyclists (AADB)
21

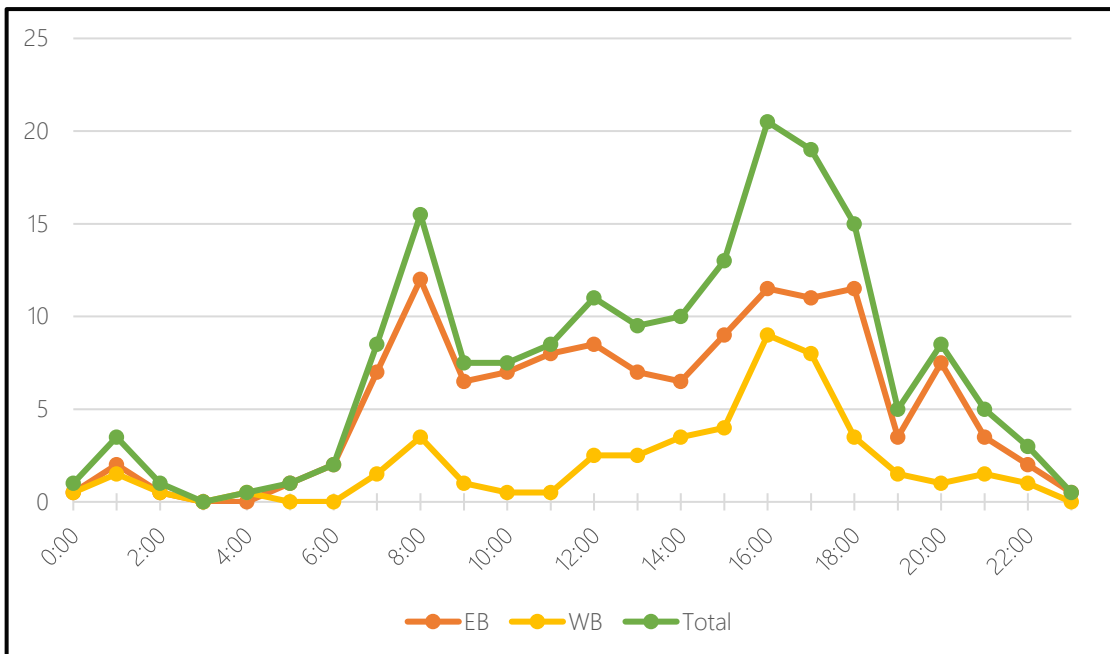


Hennepin County Bicycle Monitoring Program

Site code: 501
 Location: Franklin Ave E & E of 27th St S

AM peak hour starts at: 8:00 **15.5** bikes
 PM peak hour starts at: 16:00 **20.5** bikes

Time	Tuesday 8/15/2017		Wednesday 8/16/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	1	1	0.5	0.5	1
1:00	2	1	2	2	2	1.5	3.5
2:00	0	1	1	0	0.5	0.5	1
3:00	0	0	0	0	0	0	0
4:00	0	1	0	0	0	0.5	0.5
5:00	1	0	1	0	1	0	1
6:00	4	0	0	0	2	0	2
7:00	10	3	4	0	7	1.5	8.5
8:00	20	7	4	0	12	3.5	15.5
9:00	8	2	5	0	6.5	1	7.5
10:00	9	1	5	0	7	0.5	7.5
11:00	10	1	5	0	8	0.5	8.5
12:00	13	4	3	1	8.5	2.5	11
13:00	6	4	7	1	7	2.5	9.5
14:00	7	3	6	4	6.5	3.5	10
15:00	9	7	9	1	9	4	13
16:00	8	13	14	5	11.5	9	20.5
17:00	15	12	6	3	11	8	19
18:00	17	5	3	2	11.5	3.5	15
19:00	5	3	1	0	3.5	1.5	5
20:00	10	2	3	0	7.5	1	8.5
21:00	5	3	2	0	3.5	1.5	5
22:00	3	2	1	0	2	1	3
23:00	1	0	0	0	0.5	0	0.5
Totals	163	75	83	20	128.5	48	176.5
	238		103				



Average Annual Daily
 Bicyclists (AADB)
156

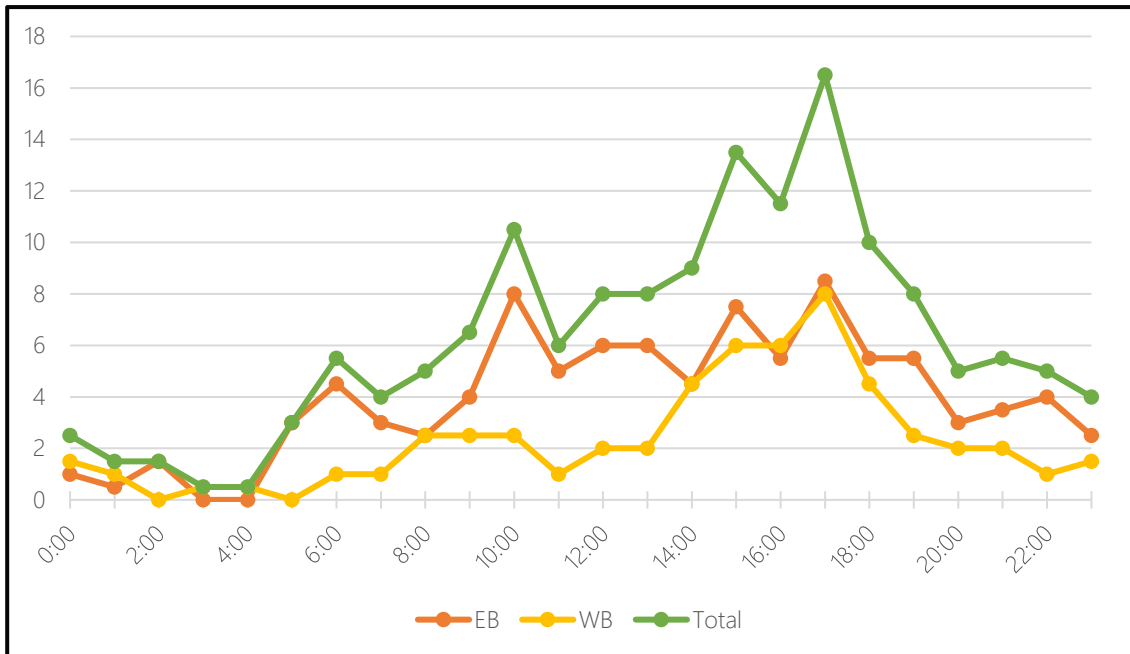


Hennepin County Bicycle Monitoring Program

Site code: 502
 Location: Franklin Ave E & E of Elliot Ave / Chicago Ave

AM peak hour starts at: 10:00 **10.5** bikes
 PM peak hour starts at: 17:00 **16.5** bikes

Time	Tuesday 8/15/2017		Wednesday 8/16/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	1	3	1	0	1	1.5	2.5
1:00	1	1	0	1	0.5	1	1.5
2:00	2	0	1	0	1.5	0	1.5
3:00	0	0	0	1	0	0.5	0.5
4:00	0	1	0	0	0	0.5	0.5
5:00	4	0	2	0	3	0	3
6:00	7	1	2	1	4.5	1	5.5
7:00	5	2	1	0	3	1	4
8:00	4	3	1	2	2.5	2.5	5
9:00	4	3	4	2	4	2.5	6.5
10:00	10	3	3	2	8	2.5	10.5
11:00	6	1	4	1	5	1	6
12:00	7	4	5	0	6	2	8
13:00	8	3	4	1	6	2	8
14:00	6	7	3	2	4.5	4.5	9
15:00	8	5	7	6	7.5	6	13.5
16:00	8	5	3	7	5.5	6	11.5
17:00	10	9	7	7	8.5	8	16.5
18:00	7	7	4	2	5.5	4.5	10
19:00	8	4	3	0	5.5	2.5	8
20:00	5	4	0	0	3	2	5
21:00	6	4	1	0	3.5	2	5.5
22:00	6	1	2	1	4	1	5
23:00	4	3	1	0	2.5	1.5	4
Totals	127	74	59	36	95	56	151
	201		95		95	56	151



Average Annual Daily
 Bicyclists (AADB)
127

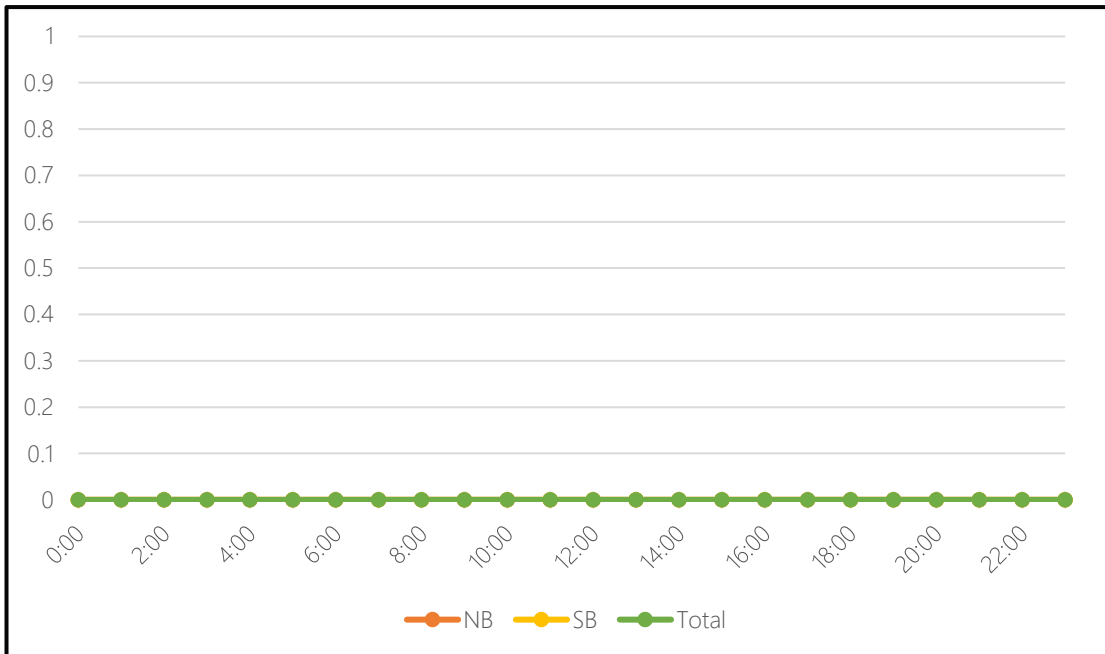


Hennepin County Bicycle Monitoring Program

Site code: 15201
 Location: Cedar Ave S & North of Nokomis Pkwy

AM peak hour starts at: 0:00 0 bikes
 PM peak hour starts at: 12:00 0 bikes

Time	Wednesday 8/23/2017		Thursday 8/24/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	0



Average Annual Daily
 Bicyclists (AADB)
 N/A

Note: Water in tubes; did not have time to redo counts at this location.

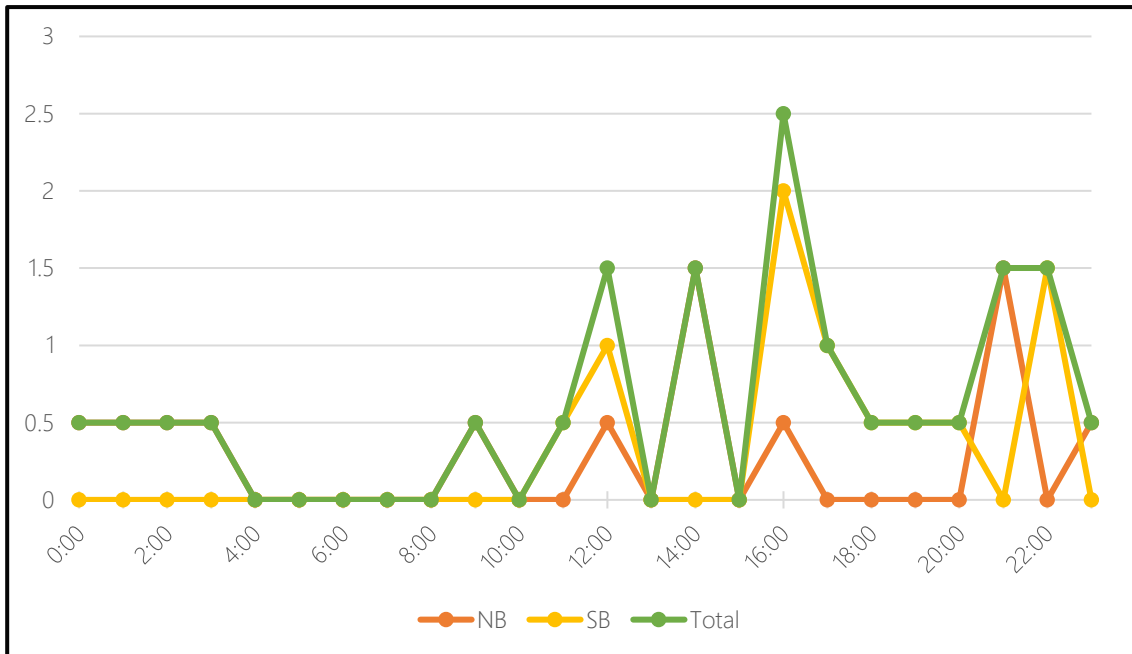


Hennepin County Bicycle Monitoring Program

Site code: 15203
 Location: Cedar Ave S & S of E 40th St

AM peak hour starts at: 0:00 **0.5** bikes
 PM peak hour starts at: 16:00 **2.5** bikes

Time	Wednesday 8/23/2017		Thursday 8/24/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	1	0	0	0	0.5	0	0.5
1:00	1	0	0	0	0.5	0	0.5
2:00	0	0	1	0	0.5	0	0.5
3:00	1	0	0	0	0.5	0	0.5
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0
9:00	1	0	0	0	0.5	0	0.5
10:00	0	0	0	0	0	0	0
11:00	0	1	0	0	0	0.5	0.5
12:00	0	0	1	2	0.5	1	1.5
13:00	0	0	0	0	0	0	0
14:00	1	0	1	0	1.5	0	1.5
15:00	0	0	0	0	0	0	0
16:00	0	2	1	1	0.5	2	2.5
17:00	0	0	0	2	0	1	1
18:00	0	0	0	1	0	0.5	0.5
19:00	0	1	0	0	0	0.5	0.5
20:00	0	1	0	0	0	0.5	0.5
21:00	1	0	2	0	1.5	0	1.5
22:00	0	0	0	3	0	1.5	1.5
23:00	1	0	0	0	0.5	0	0.5
Totals	7	5	6	9	7	7.5	14.5



Average Annual Daily
 Bicyclists (AADB)
7

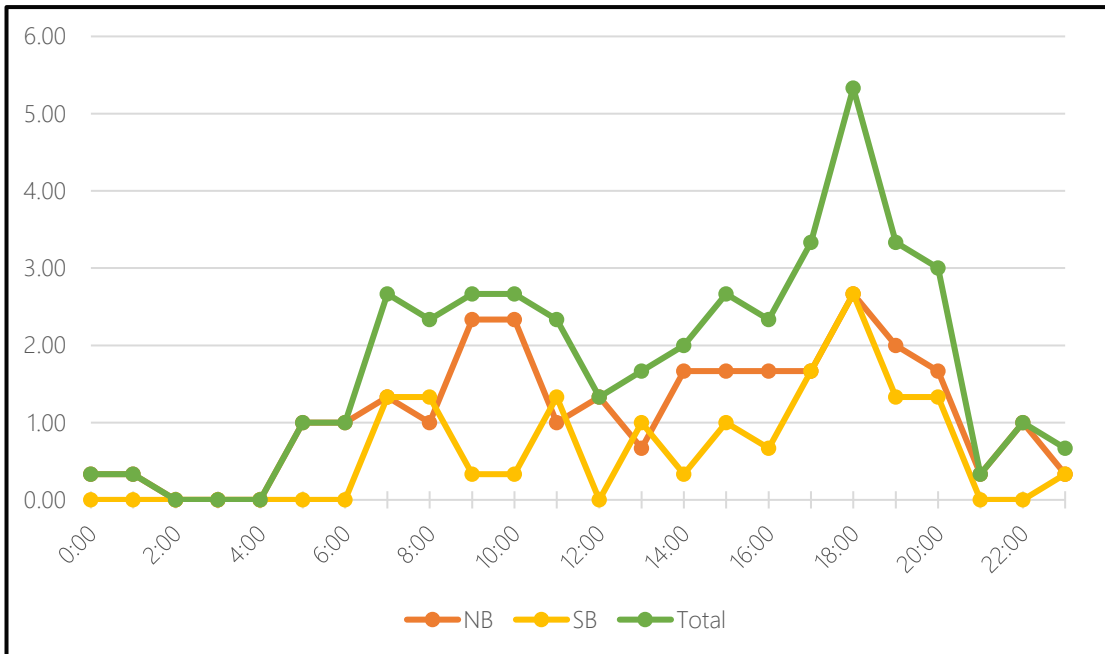


Hennepin County Bicycle Monitoring Program

Site code: 1701
 Location: France Ave & N of 47th St

AM peak hour starts at: 9:00 **2.667** bikes
 PM peak hour starts at: 18:00 **5.333** bikes

Time	Tuesday 8/29/2017		Wednesday 8/30/2017		Thursday 8/31/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	1	0	0.33	0.00	0.33
1:00	0	0	1	0	0	0	0.33	0.00	0.33
2:00	0	0	0	0	0	0	0.00	0.00	0.00
3:00	0	0	0	0	0	0	0.00	0.00	0.00
4:00	0	0	0	0	0	0	0.00	0.00	0.00
5:00	1	0	0	0	2	0	1.00	0.00	1.00
6:00	3	0	0	0	0	0	1.00	0.00	1.00
7:00	1	2	3	2	0	0	1.33	1.33	2.67
8:00	0	1	1	0	1	3	1.00	1.33	2.33
9:00	3	0	4	1	0	0	2.33	0.33	2.67
10:00	2	0	2	1	2	0	2.33	0.33	2.67
11:00	1	1	0	1	2	2	1.00	1.33	2.33
12:00	1	0	2	0	1	0	1.33	0.00	1.33
13:00	1	1	0	1	1	1	0.67	1.00	1.67
14:00	3	1	0	0	1	0	1.67	0.33	2.00
15:00	1	0	2	1	2	2	1.67	1.00	2.67
16:00	0	1	2	1	2	0	1.67	0.67	2.33
17:00	1	2	0	0	3	3	1.67	1.67	3.33
18:00	5	3	1	2	2	2	2.67	2.67	5.33
19:00	3	2	2	1	1	1	2.00	1.33	3.33
20:00	2	1	2	1	1	2	1.67	1.33	3.00
21:00	0	0	0	0	1	0	0.33	0.00	0.33
22:00	2	0	0	0	1	0	1.00	0.00	1.00
23:00	0	1	0	0	1	0	0.33	0.33	0.67
Totals	30	16	22	12	25	16	27.33	15.00	42.33
	46		34		25				



Average Annual Daily
 Bicyclists (AADB)

25

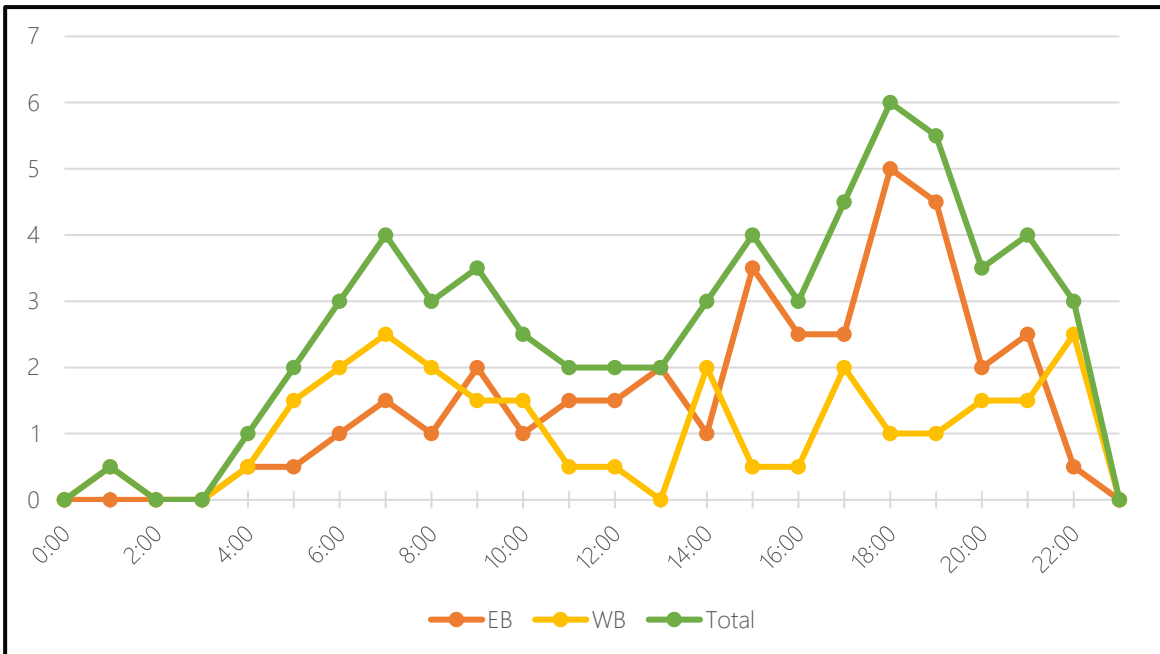


Hennepin County Bicycle Monitoring Program

Site code: 2101 EB
 Location: West 50th St & E of James Ave S/ W of Neton Ave S

AM peak hour starts at: 7:00 4 bikes
 PM peak hour starts at: 18:00 6 bikes

Time	Tuesday 8/29/2017		Wednesday 8/30/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0.5	0.5
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	1	1	0.5	0.5	1
5:00	1	2	0	1	0.5	1.5	2
6:00	1	2	1	2	1	2	3
7:00	2	3	1	2	1.5	2.5	4
8:00	2	2	0	2	1	2	3
9:00	1	1	3	2	2	1.5	3.5
10:00	2	2	0	1	1	1.5	2.5
11:00	0	0	2	1	1.5	0.5	2
12:00	0	1	3	0	1.5	0.5	2
13:00	2	0	2	0	2	0	2
14:00	1	4	1	0	1	2	3
15:00	3	1	4	0	3.5	0.5	4
16:00	4	1	1	0	2.5	0.5	3
17:00	4	3	1	1	2.5	2	4.5
18:00	6	1	3	1	5	1	6
19:00	5	0	3	2	4.5	1	5.5
20:00	3	1	1	2	2	1.5	3.5
21:00	1	1	4	2	2.5	1.5	4
22:00	1	3	0	2	0.5	2.5	3
23:00	0	0	0	0	0	0	0
Totals	39	28	31	23	36.5	25.5	62
	67		54				



Average Annual Daily
 Bicyclists (AADB)
36

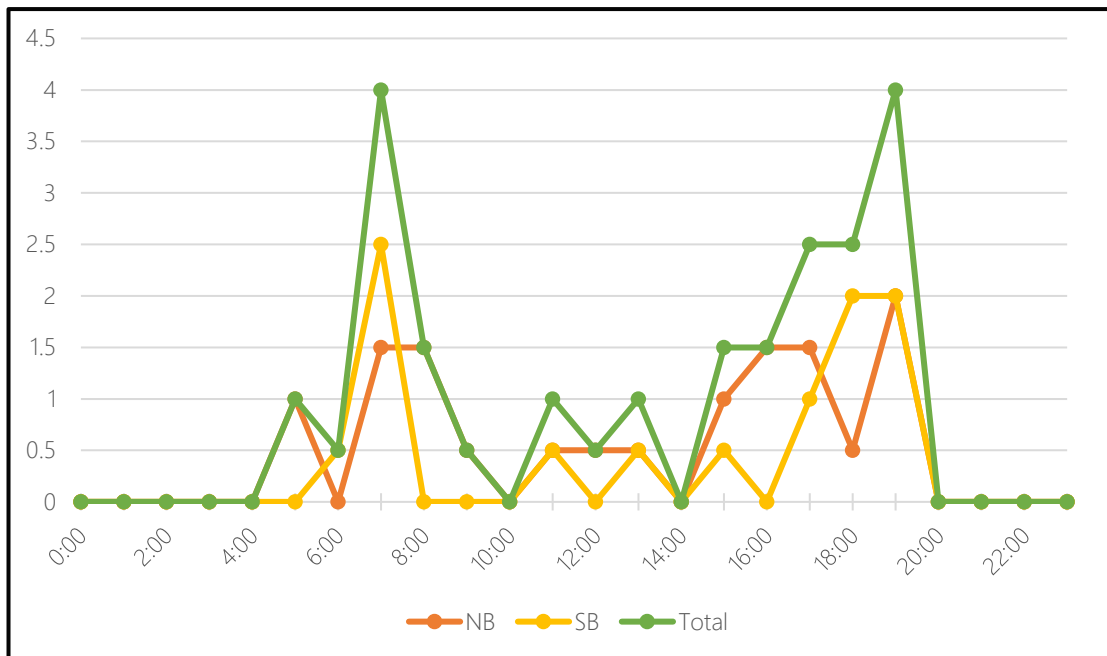


Hennepin County Bicycle Monitoring Program

Site code: 402
 Location: Eden Prairie Rd & N of Berger Dr

AM peak hour starts at: 7:00 4 bikes
 PM peak hour starts at: 19:00 4 bikes

Time	Tuesday 9/12/2017		Wednesday 9/13/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	1	0	1	0	1	0	1
6:00	0	1	0	0	0	0.5	0.5
7:00	2	3	1	2	1.5	2.5	4
8:00	2	0	1	0	1.5	0	1.5
9:00	1	0	0	0	0.5	0	0.5
10:00	0	0	0	0	0	0	0
11:00	0	1	1	0	0.5	0.5	1
12:00	0	0	1	0	0.5	0	0.5
13:00	0	0	1	1	0.5	0.5	1
14:00	0	0	0	0	0	0	0
15:00	1	1	0	0	1	0.5	1.5
16:00	3	0	0	0	1.5	0	1.5
17:00	2	1	1	1	1.5	1	2.5
18:00	0	1	1	3	0.5	2	2.5
19:00	2	3	1	0	2	2	4
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	14	11	9	7	12.5	9.5	22



Average Annual Daily
 Bicyclists (AADB)

18

Note: These counts only include data from the east side of the trail because the tubes on the west side were dislodged.

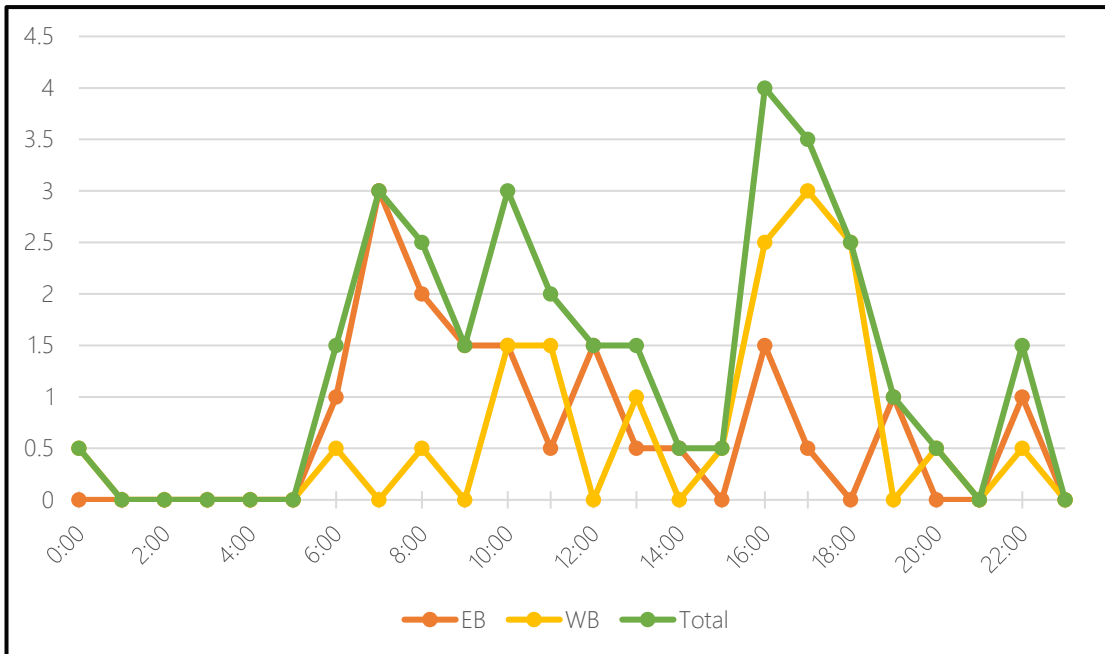


Hennepin County Bicycle Monitoring Program

Site code: 3901
 Location: Valley View Rd & W of Anagram Dr

AM peak hour starts at: 7:00 **3** bikes
 PM peak hour starts at: 16:00 **4** bikes

Time	Tuesday 9/12/2017		Wednesday 9/13/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	1	0	0.5	0.5
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	1	2	0	1	0.5	1.5
7:00	3	0	3	0	3	0	3
8:00	3	0	1	1	2	0.5	2.5
9:00	1	0	2	0	1.5	0	1.5
10:00	1	2	2	1	1.5	1.5	3
11:00	0	2	1	1	0.5	1.5	2
12:00	2	0	1	0	1.5	0	1.5
13:00	1	1	0	1	0.5	1	1.5
14:00	0	0	1	0	0.5	0	0.5
15:00	0	1	0	0	0	0.5	0.5
16:00	0	2	3	3	1.5	2.5	4
17:00	1	2	0	4	0.5	3	3.5
18:00	0	2	0	2	0	2.5	2.5
19:00	1	0	0	0	1	0	1
20:00	0	1	0	0	0	0.5	0.5
21:00	0	0	0	0	0	0	0
22:00	1	0	1	1	1	0.5	1.5
23:00	0	0	0	0	0	0	0
Totals	14	14	17	15	16	15	31
	28		32				



Average Annual Daily
 Bicyclists (AADB)

27

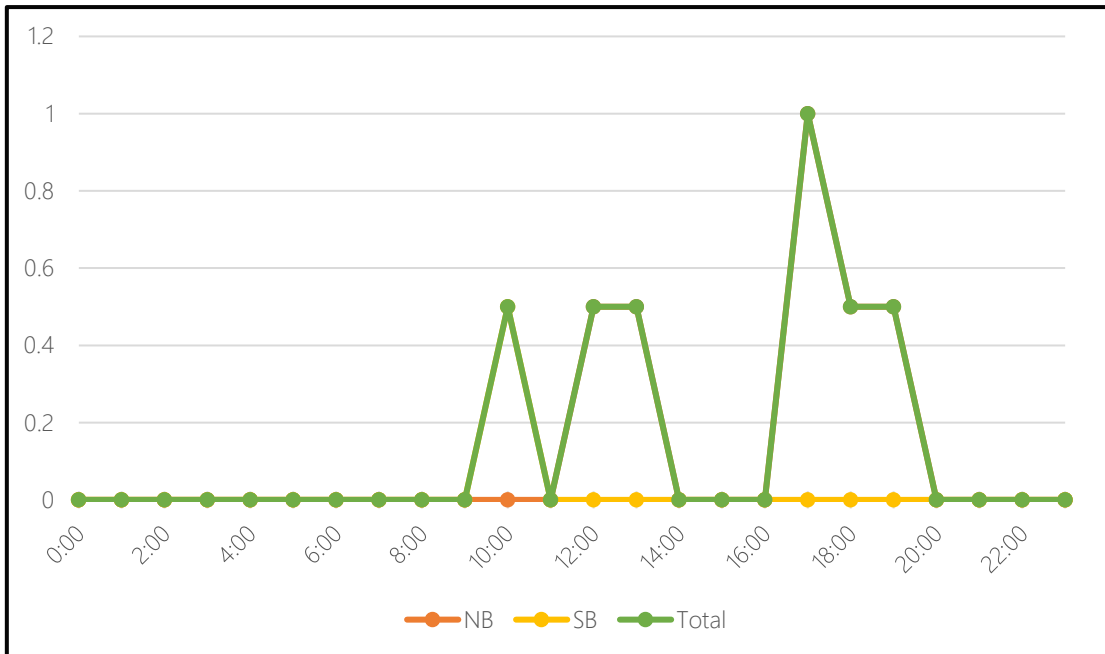


Hennepin County Bicycle Monitoring Program

Site code: 6101
 Location: Shady Oak Rd & S of Minnetonka Mills Rd

AM peak hour starts at: 10:00 0.5 bikes
 PM peak hour starts at: 17:00 1 bikes

Time	Wednesday 9/20/2017		Thursday 9/21/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0
10:00	0	1	0	0	0	0.5	0.5
11:00	0	0	0	0	0	0	0
12:00	1	0	0	0	0.5	0	0.5
13:00	0	0	1	0	0.5	0	0.5
14:00	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0
17:00	1	0	1	0	1	0	1
18:00	0	0	1	0	0.5	0	0.5
19:00	1	0	0	0	0.5	0	0.5
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	3	1	3	0	3	0.5	3.5



Average Annual Daily Bicyclists (AADB)

3

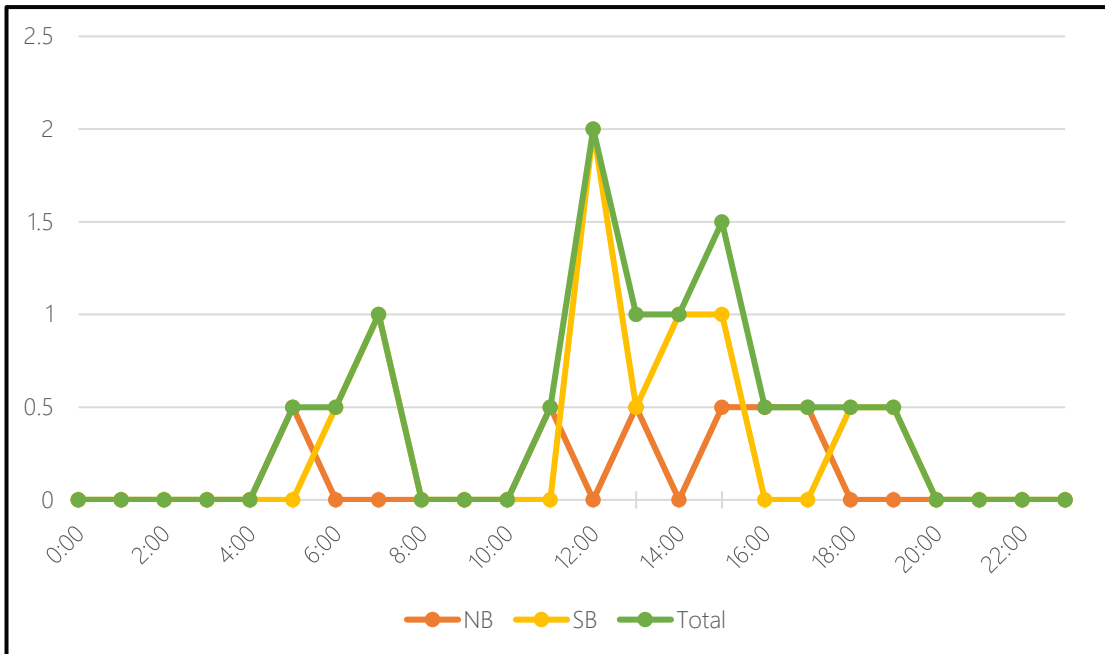


Hennepin County Bicycle Monitoring Program

Site code: 9201
 Location: County Rd 92 N & N of Trista Ln

AM peak hour starts at: 7:00 1 bikes
 PM peak hour starts at: 12:00 2 bikes

Time	Wednesday 9/20/2017		Thursday 9/21/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	1	0	0	0	0.5	0	0.5
6:00	0	0	0	1	0	0.5	0.5
7:00	0	0	0	2	0	1	1
8:00	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0
11:00	1	0	0	0	0.5	0	0.5
12:00	0	3	0	1	0	2	2
13:00	1	0	0	1	0.5	0.5	1
14:00	0	2	0	0	0	1	1
15:00	1	0	0	2	0.5	1	1.5
16:00	0	0	1	0	0.5	0	0.5
17:00	0	0	1	0	0.5	0	0.5
18:00	0	0	0	1	0	0.5	0.5
19:00	0	0	0	1	0	0.5	0.5
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	4	5	2	9	3	7	10



Average Annual Daily
 Bicyclists (AADB)

9

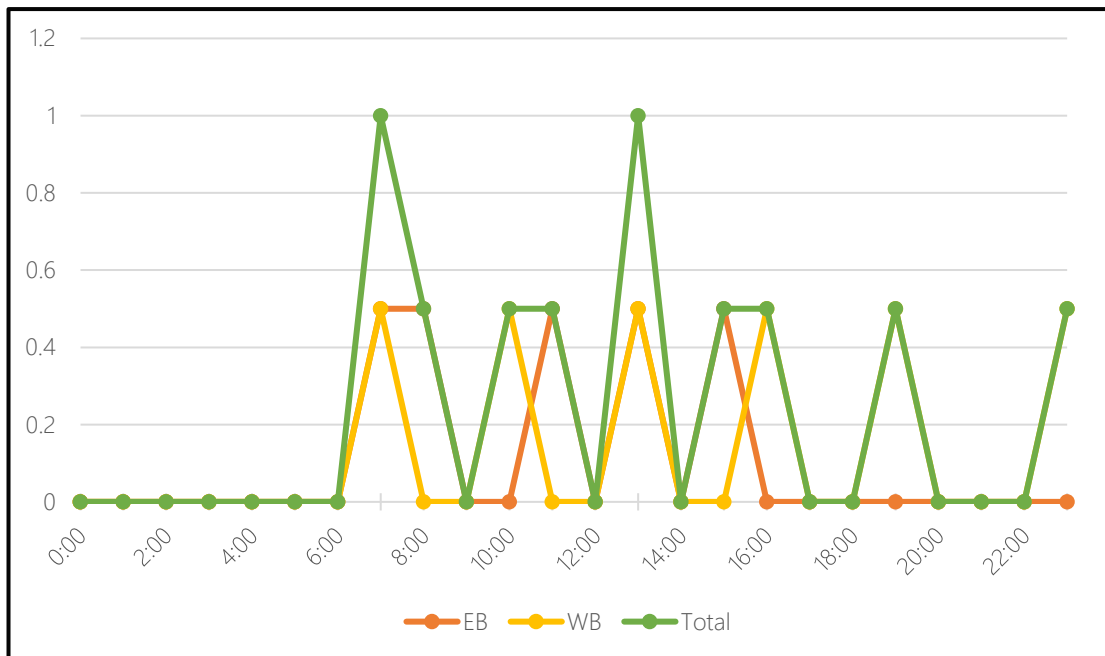


Hennepin County Bicycle Monitoring Program

Site code: 503
 Location: Minnetonka Blvd & E of TH 100

AM peak hour starts at: 7:00 1 bikes
 PM peak hour starts at: 13:00 1 bikes

Time	Saturday 9/23/2017		Wednesday 9/27/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	0	1	1	0.5	0.5	1
8:00	0	0	1	0	0.5	0	0.5
9:00	0	0	0	0	0	0	0
10:00	0	1	0	0	0	0.5	0.5
11:00	1	0	0	0	0.5	0	0.5
12:00	0	0	0	0	0	0	0
13:00	1	1	0	0	0.5	0.5	1
14:00	0	0	0	0	0	0	0
15:00	1	0	0	0	0.5	0	0.5
16:00	0	1	0	0	0	0.5	0.5
17:00	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0
19:00	0	0	0	1	0	0.5	0.5
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	1	0	0.5	0.5
Totals	3	3	2	3	2.5	3	5.5



Average Annual Daily
 Bicyclists (AADB)

4

Note: These counts were conducted by video. The dates are not consecutive and there is no video available from midnight to 4 a.m. for both days.

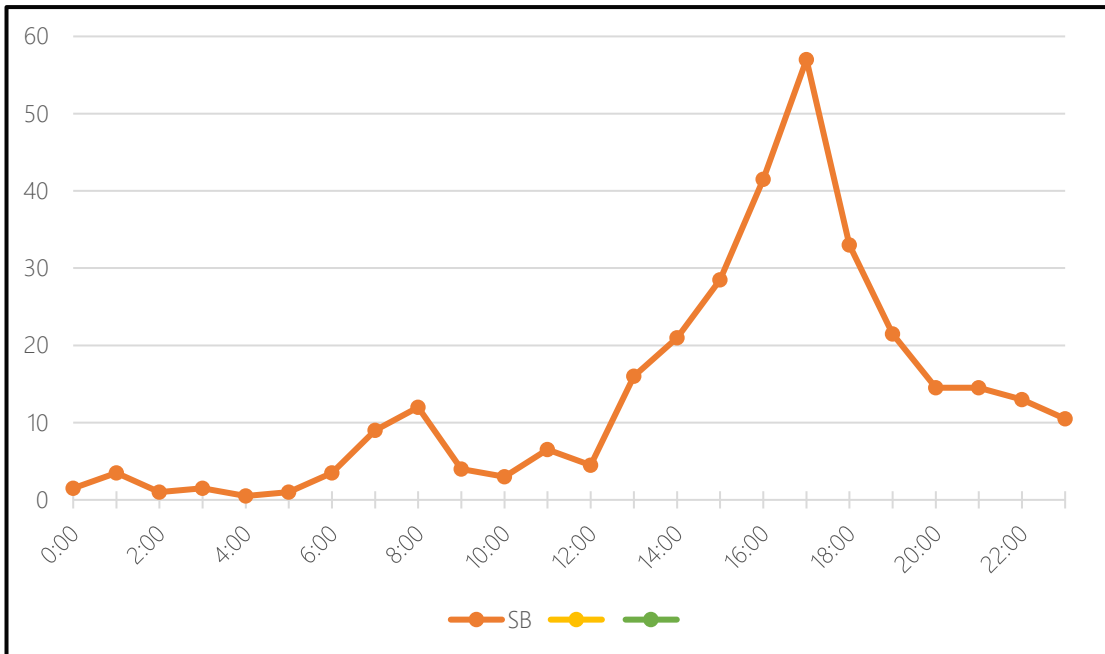


Hennepin County Bicycle Monitoring Program

Site code: 3502
 Location: Portland Ave & S of 25th

AM peak hour starts at: 8:00 **12** bikes
 PM peak hour starts at: 17:00 **57** bikes

Time	Tuesday 9/26/2017	Wednesday 9/27/2017	Daily Average	
	SB	SB	SB	Total
0:00	3	0	1.5	1.5
1:00	3	4	3.5	3.5
2:00	0	2	1	1
3:00	1	2	1.5	1.5
4:00	0	1	0.5	0.5
5:00	1	1	1	1
6:00	2	5	3.5	3.5
7:00	8	10	9	9
8:00	12	12	12	12
9:00	8	0	4	4
10:00	6	0	3	3
11:00	5	8	6.5	6.5
12:00	1	8	4.5	4.5
13:00	14	17	16	16
14:00	18	23	21	21
15:00	22	34	28.5	28.5
16:00	34	43	41.5	41.5
17:00	54	55	57	57
18:00	29	35	33	33
19:00	17	25	21.5	21.5
20:00	13	16	14.5	14.5
21:00	12	14	14.5	14.5
22:00	12	12	13	13
23:00	13	7	10.5	10.5
Totals	288	334	322.5	322.5



Average Annual Daily
 Bicyclists (AADB)

193

Note: Original location is south of 28th St; however, the count site was moved due to construction.

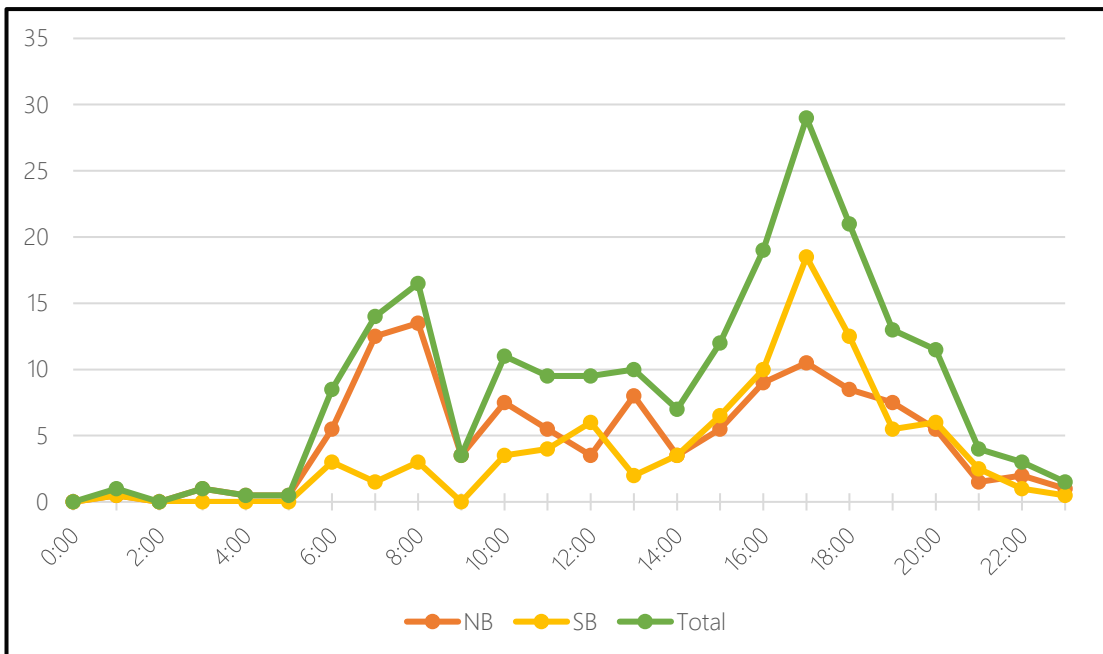


Hennepin County Bicycle Monitoring Program

Site code: 4801
 Location: Minnehaha Ave & N of 40th St E

AM peak hour starts at: 8:00 **16.5** bikes
 PM peak hour starts at: 17:00 **29** bikes

Time	Tuesday 9/26/2017		Wednesday 9/27/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	1	1	0	0.5	0.5	1
2:00	0	0	0	0	0	0	0
3:00	1	0	1	0	1	0	1
4:00	0	0	1	0	0.5	0	0.5
5:00	0	0	1	0	0.5	0	0.5
6:00	5	3	6	3	5.5	3	8.5
7:00	7	1	18	2	12.5	1.5	14
8:00	11	3	15	3	13.5	3	16.5
9:00	3	0	4	0	3.5	0	3.5
10:00	9	3	6	2	7.5	3.5	11
11:00	4	3	7	4	5.5	4	9.5
12:00	3	4	4	7	3.5	6	9.5
13:00	9	3	5	1	8	2	10
14:00	4	4	3	3	3.5	3.5	7
15:00	2	2	9	9	5.5	6.5	12
16:00	7	10	9	10	9	10	19
17:00	9	14	11	20	10.5	18.5	29
18:00	7	8	9	15	8.5	12.5	21
19:00	7	5	8	6	7.5	5.5	13
20:00	6	7	5	5	5.5	6	11.5
21:00	1	0	2	5	1.5	2.5	4
22:00	2	2	1	0	2	1	3
23:00	2	0	0	1	1	0.5	1.5
Totals	99	73	126	96	116.5	90	206.5
	172		222				



Average Annual Daily
 Bicyclists (AADB)

122

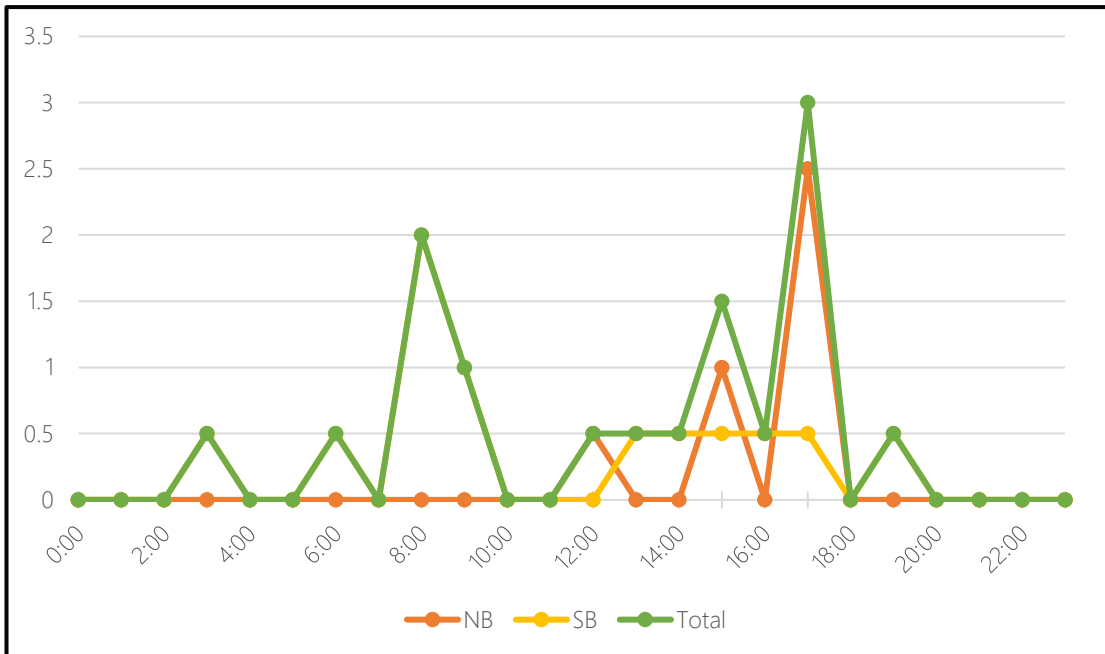


Hennepin County Bicycle Monitoring Program

Site code: 3202
 Location: Penn Ave S & N of 91st St

AM peak hour starts at: 8:00 2 bikes
 PM peak hour starts at: 17:00 3 bikes

Time	Wednesday 10/4/2017		Thursday 10/5/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	1	0	0.5	0.5
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	1	0	0	0	0.5	0.5
7:00	0	0	0	0	0	0	0
8:00	0	3	0	1	0	2	2
9:00	0	0	0	1	0	1	1
10:00	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0
12:00	1	0	0	0	0.5	0	0.5
13:00	0	1	0	0	0	0.5	0.5
14:00	0	1	0	0	0	0.5	0.5
15:00	2	1	0	0	1	0.5	1.5
16:00	0	0	0	1	0	0.5	0.5
17:00	2	1	2	0	2.5	0.5	3
18:00	0	0	0	0	0	0	0
19:00	0	1	0	0	0	0.5	0.5
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	5	9	2	4	4	7	11
	14		6				



Average Annual Daily
 Bicyclists (AADB)

8

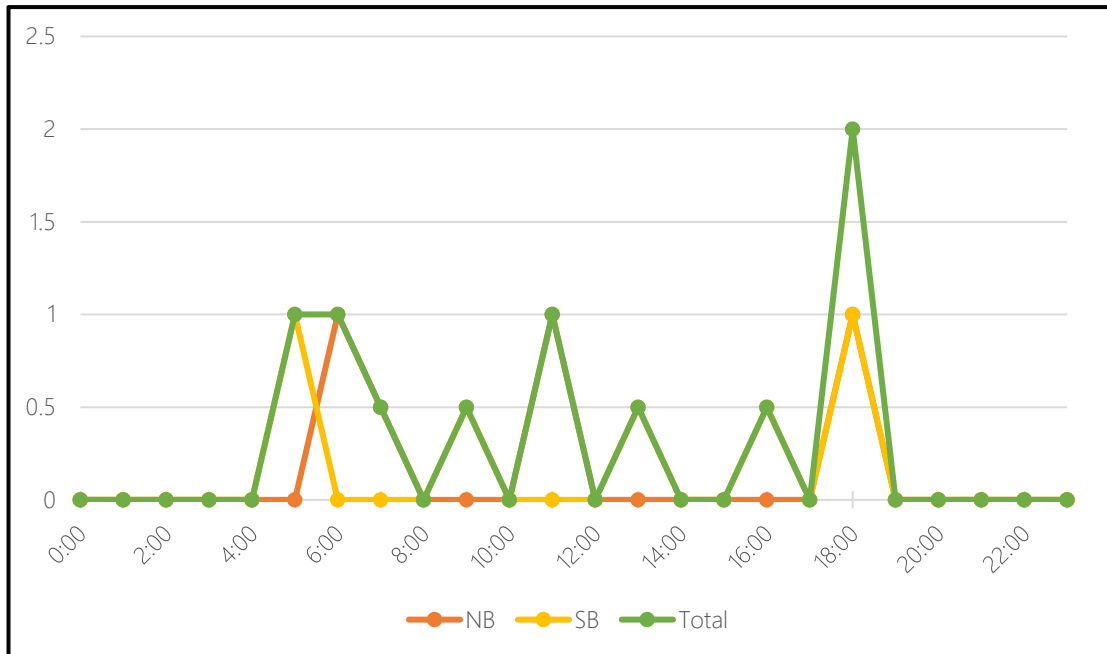


Hennepin County Bicycle Monitoring Program

Site code: 5201
 Location: Nicollet Ave & N of 90th St

AM peak hour starts at: 5:00 1 bikes
 PM peak hour starts at: 18:00 2 bikes

Time	Wednesday 10/4/2017		Thursday 10/5/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	1	0	1	0	1	1
6:00	1	0	1	0	1	0	1
7:00	1	0	0	0	0.5	0	0.5
8:00	0	0	0	0	0	0	0
9:00	0	0	0	1	0	0.5	0.5
10:00	0	0	0	0	0	0	0
11:00	0	0	1	0	1	0	1
12:00	0	0	0	0	0	0	0
13:00	0	0	0	1	0	0.5	0.5
14:00	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0
16:00	0	1	0	0	0	0.5	0.5
17:00	0	0	0	0	0	0	0
18:00	1	0	1	1	1	1	2
19:00	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	3	2	3	4	3.5	3.5	7



Average Annual Daily
 Bicyclists (AADB)
8

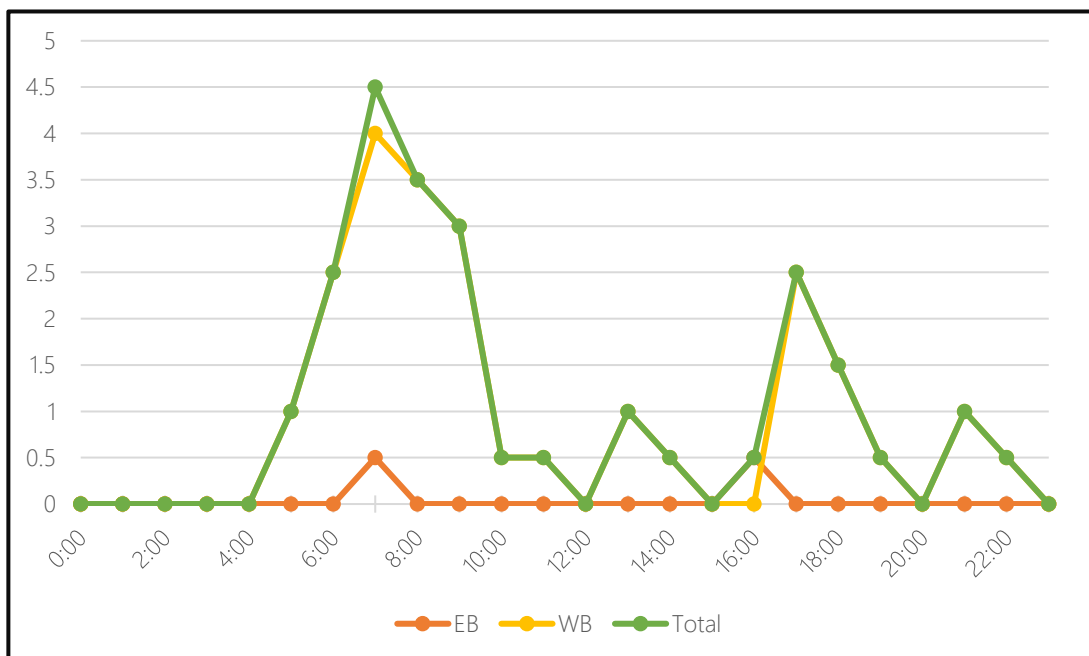


Hennepin County Bicycle Monitoring Program

Site code: 15801
 Location: Vernon Ave S & E of Vernon Ln

AM peak hour starts at: 7:00 **4.5** bikes
 PM peak hour starts at: 17:00 **2.5** bikes

Time	Tuesday 10/10/2017		Wednesday 10/11/2017		Daily Average				
	EB	WB	EB	WB	EB	WB	Total		
0:00	0	0	0	0	0	0	0		
1:00	0	0	0	0	0	0	0		
2:00	0	0	0	0	0	0	0		
3:00	0	0	0	0	0	0	0		
4:00	0	0	0	0	0	0	0		
5:00	0	1	0	1	0	1	1		
6:00	0	0	0	5	0	2.5	2.5		
7:00	0	4	1	3	0.5	4	4.5		
8:00	0	5	0	2	0	3.5	3.5		
9:00	0	3	0	3	0	3	3		
10:00	0	1	0	0	0	0.5	0.5		
11:00	0	0	0	1	0	0.5	0.5		
12:00	0	0	0	0	0	0	0		
13:00	0	1	0	1	0	1	1		
14:00	0	1	0	0	0	0.5	0.5		
15:00	0	0	0	0	0	0	0		
16:00	1	0	0	0	0.5	0	0.5		
17:00	0	3	0	2	0	2.5	2.5		
18:00	0	1	0	2	0	1.5	1.5		
19:00	0	1	0	0	0	0.5	0.5		
20:00	0	0	0	0	0	0	0		
21:00	0	0	0	2	0	1	1		
22:00	0	0	0	1	0	0.5	0.5		
23:00	0	0	0	0	0	0	0		
Totals	1	22	21	1	24	23	1	22.5	23.5



Average Annual Daily
 Bicyclists (AADB)
31

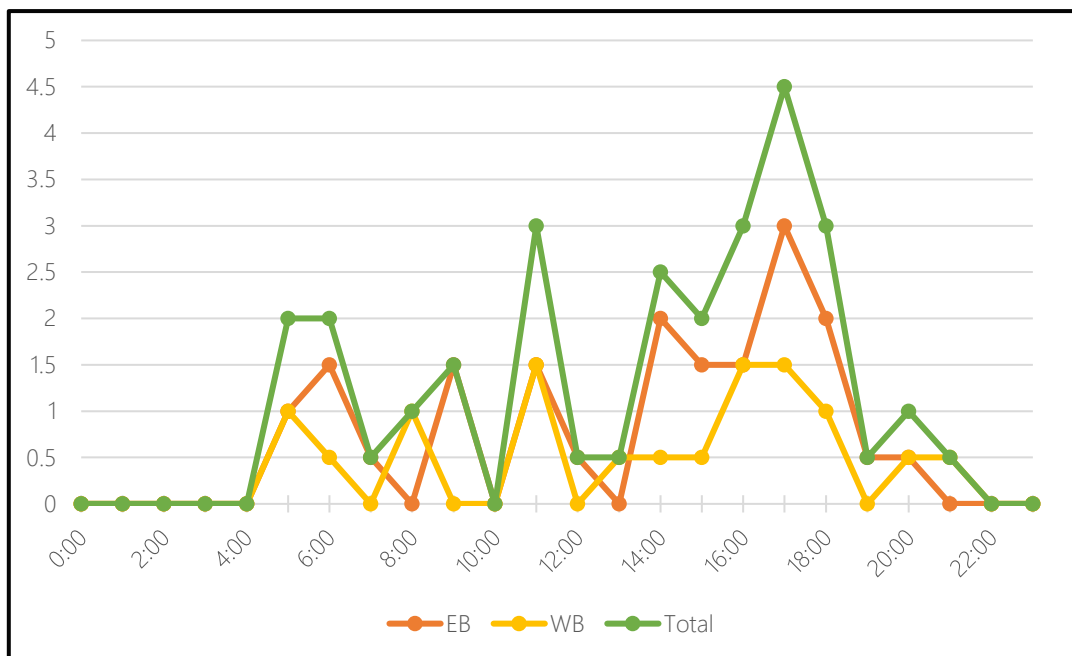


Hennepin County Bicycle Monitoring Program

Site code: 4602
 Location: 46th St W & E of 17th Ave

AM peak hour starts at: 11:00 **3** bikes
 PM peak hour starts at: 17:00 **4.5** bikes

Time	Tuesday 10/17/2017		Wednesday 10/18/2017		Daily Average		
	EB	WB	EB	WB	EB	WB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	1	2	1	1	1	2
6:00	1	0	2	1	1.5	0.5	2
7:00	0	0	1	0	0.5	0	0.5
8:00	0	1	0	1	0	1	1
9:00	2	0	1	0	1.5	0	1.5
10:00	0	0	0	0	0	0	0
11:00	0	2	2	1	1.5	1.5	3
12:00	0	0	1	0	0.5	0	0.5
13:00	0	1	0	0	0	0.5	0.5
14:00	2	1	1	0	2	0.5	2.5
15:00	0	1	3	0	1.5	0.5	2
16:00	1	0	1	3	1.5	1.5	3
17:00	1	3	5	0	3	1.5	4.5
18:00	3	1	1	1	2	1	3
19:00	1	0	0	0	0.5	0	0.5
20:00	0	1	1	0	0.5	0.5	1
21:00	0	1	0	0	0	0.5	0.5
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	11	13	21	8	17.5	10.5	28
	24		29				



Average Annual Daily
 Bicyclists (AADB)
15

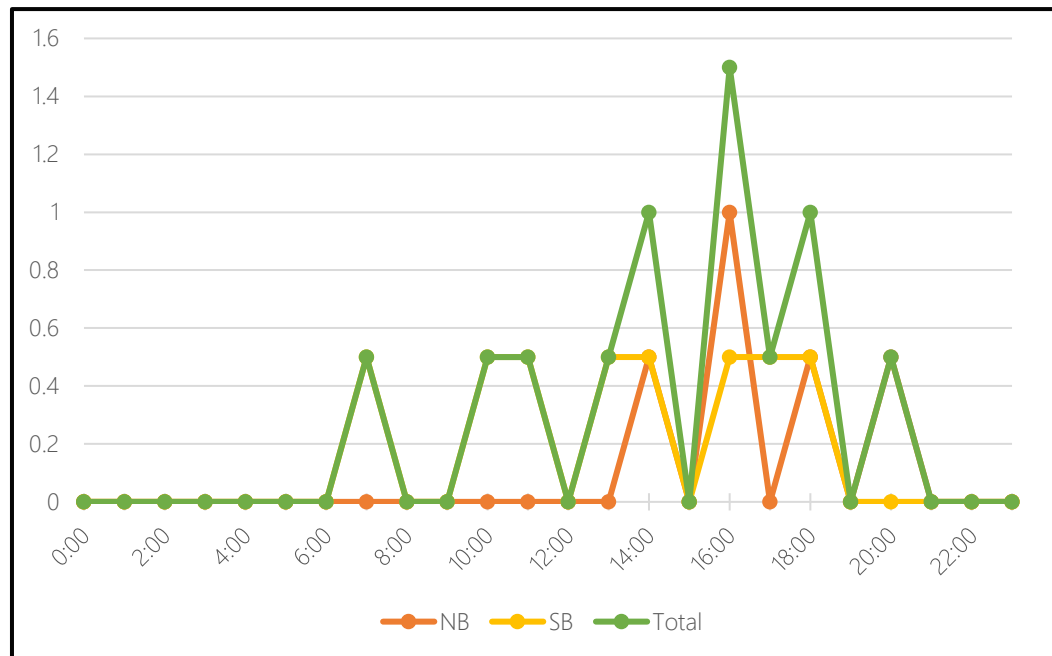


Hennepin County Bicycle Monitoring Program

Site code: 3504
 Location: Portland Ave S & S of 86th St

AM peak hour starts at: 7:00 0.5 bikes
 PM peak hour starts at: 16:00 1.5 bikes

Time	Tuesday 10/17/2017		Wednesday 10/18/2017		Daily Average		
	NB	SB	NB	SB	NB	SB	Total
0:00	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0
7:00	0	1	0	0	0	0.5	0.5
8:00	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	0
10:00	0	1	0	0	0	0.5	0.5
11:00	0	0	0	1	0	0.5	0.5
12:00	0	0	0	0	0	0	0
13:00	0	0	0	1	0	0.5	0.5
14:00	1	1	0	0	0.5	0.5	1
15:00	0	0	0	0	0	0	0
16:00	1	1	0	0	1	0.5	1.5
17:00	0	1	0	0	0	0.5	0.5
18:00	1	1	0	0	0.5	0.5	1
19:00	0	0	0	0	0	0	0
20:00	0	0	1	0	0.5	0	0.5
21:00	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	3	6	1	2	2.5	4	6.5



Average Annual Daily Bicyclists (AADB)
5

Note: CIP count

