

AUTOMATED BICYCLE COUNTING PROGRAM REPORT

2015



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Introduction

In May through October 2015, Hennepin County implemented the first and pilot year of an annual automated bicycle counting program. The purpose of this report is to describe this effort, report results, and make recommendations for next steps.

CONTEXT

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

- Hennepin County's 2040 Bicycle Transportation Plan suggests the implementation of an automated bicycle counting system.
- Bicycle monitoring aligns with the Hennepin County Transportation Systems Plan.
- Federal, state, and local transportation agencies nationwide are planning and implementing bicycle counting systems. Notably, the Minnesota Department of Transportation has been researching bicycle counting technologies, providing technical training to local staff, and supplying equipment in the form of 9 permanent bicycle counters throughout the state.

PURPOSE

The main focus of the bicycle counting program is to report bicycle volume information along county roads, including trails adjacent to county roads. Trails owned and maintained by Three Rivers Park District were not included in this program because Three Rivers regularly monitors their trails.

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

- Track bicycle ridership in order to evaluate changes on a seasonal and annual basis
- Provide bicycle data to inform and support planning and engineering decisions and to indicate where more data is needed
- Determine bicycles volumes that may be used to calculate bicycle crash rates
- Track bicycle usage before/after county projects that include bicycle infrastructure
- Report bicycle data to elected officials, local government agencies, and the general public

BACKGROUND: 2013/2014 BICYCLE COUNTING EFFORTS

During 2013/2014 Hennepin County Public Works staff worked with MnDOT and the University Of Minnesota Humphrey School Of Public Affairs to experiment with two different bicycle counting technologies. One technology was manufactured by MetroCount which utilizes automated counting devices, similar to those used for the county's vehicle counting program, that register air pulses that are sent through pneumatic tubes. The second technology was manufactured by Chambers which utilizes microwaves that detect the presence of multimodal users. This effort served as a great opportunity for

Hennepin County staff to gain hands-on experience with the latest technologies and practices. Over that time period, Hennepin County staff was able to obtain the knowledge required to start a bicycle counting program.

In 2014, students in a capstone group at the Humphrey School of Public Affairs provided Hennepin County with a comprehensive report outlining the steps necessary to start up a bicycle count program. Many aspects of this report have been implemented as part of the 2015 pilot program.

FUNDING AND STAFF

A total of \$5,000 was provided by the Planning Department to purchase four MetroCount automated traffic counting devices along with the supplemental materials that are required for equipment installation and data processing (e.g. rubber tubes, nails, drill, hammer). Counts and analysis were primarily conducted by staff in the Planning Department with assistance from five existing county staff, as time was available, from the Transportation Planning, Community Works, and Public Works Administration Divisions.

Materials and procedures

LOCATIONS

Staff collected count information at 31 locations in the southern half of Hennepin County. Counts at 34 locations had been planned but staff were unable to count three sites due to major road construction efforts in the area of the count site.

EQUIPMENT AND DURATION

Staff used Metrocount brand pneumatic tube counting devices (5600 Series RSU) for this bicycle monitoring program. This equipment involves pneumatic tubes that are placed across a bikeway or roadway. Bikes are counted when they roll over the tube, compressing it and sending a pulse that is registered by counter. Metrocount supplies unique “thin walled” tubes that are specifically designed for use in counting bicycles.

At each site, tubes were placed in the location expected to carry the vast majority of bikes:

- In locations with a shoulder or bike lane, the hoses were placed across the shoulder or bike lane as shown in Figures 1 and 2.



Figure 1: Station 505 (westbound), Minnetonka Blvd, E of Fairchild



Figure 2: Station 3503 (southbound), Portland Ave S, N of 74th St

- In locations with no shoulder or bike lane, the hoses were placed across the entire right traffic lane.



Figure 3: Station 1701 (southbound), France Ave, N of 47th St

- In locations with an existing off-street trail adjacent to the roadway, the hoses were placed across the trail (see figure 4). Staff observed bicycle activity for a 48 hour period at a site using camera technologies. It was determined that 90% of bicycle users were traveling on the off-street trail rather than the roadway. Therefore, hoses were only placed across the off-street trail and not within the roadway to improve work efficiency.



Figure 4: Station 402 (northbound), Eden Prairie Rd, N of Berger Drive

Each location was counted for 48 hours due to the desire to count at many locations with limited resources.

Equipment accuracy was analyzed by installing video counting (CountCam) equipment in the same location as Metrocount equipment 3 times over the course of the summer. These tests indicated that the

Metrocount tube counting equipment yielded bicycle volumes that were approximately 95% of the actual volumes observed.

DATA PROCESSING

After 48 hours of data collection at each site, staff created a 1-page report for each count location (see Results below). These reports illustrate hourly trends at each site.

Staff used the 48 hour raw count at each site to estimate Average Annual Daily Bicyclists (AADB) at each location. Much like Average Annual Daily Traffic (AADT) for motor vehicles, AADB represents what the “typical bicycle traffic” is on average at each location. AADB have been controlled for weather and other daily influences so that data from all sites can be compared to each other and from year to year.

In addition to AADB, estimates are provided of average bicycle traffic in January and July at each site in order to provide further details on the seasonal variation in ridership.

See Results below for a chart of annual and seasonal averages at each site and Appendix A for more information on how these averages were calculated.

Results

Figures 5 and 6 indicate Annual, January, and July average daily bicycle (ADB) for the 31 count locations for 2015. A sample one-page summary is provided for one count location below. Appendix B includes a one page summary for all count locations.

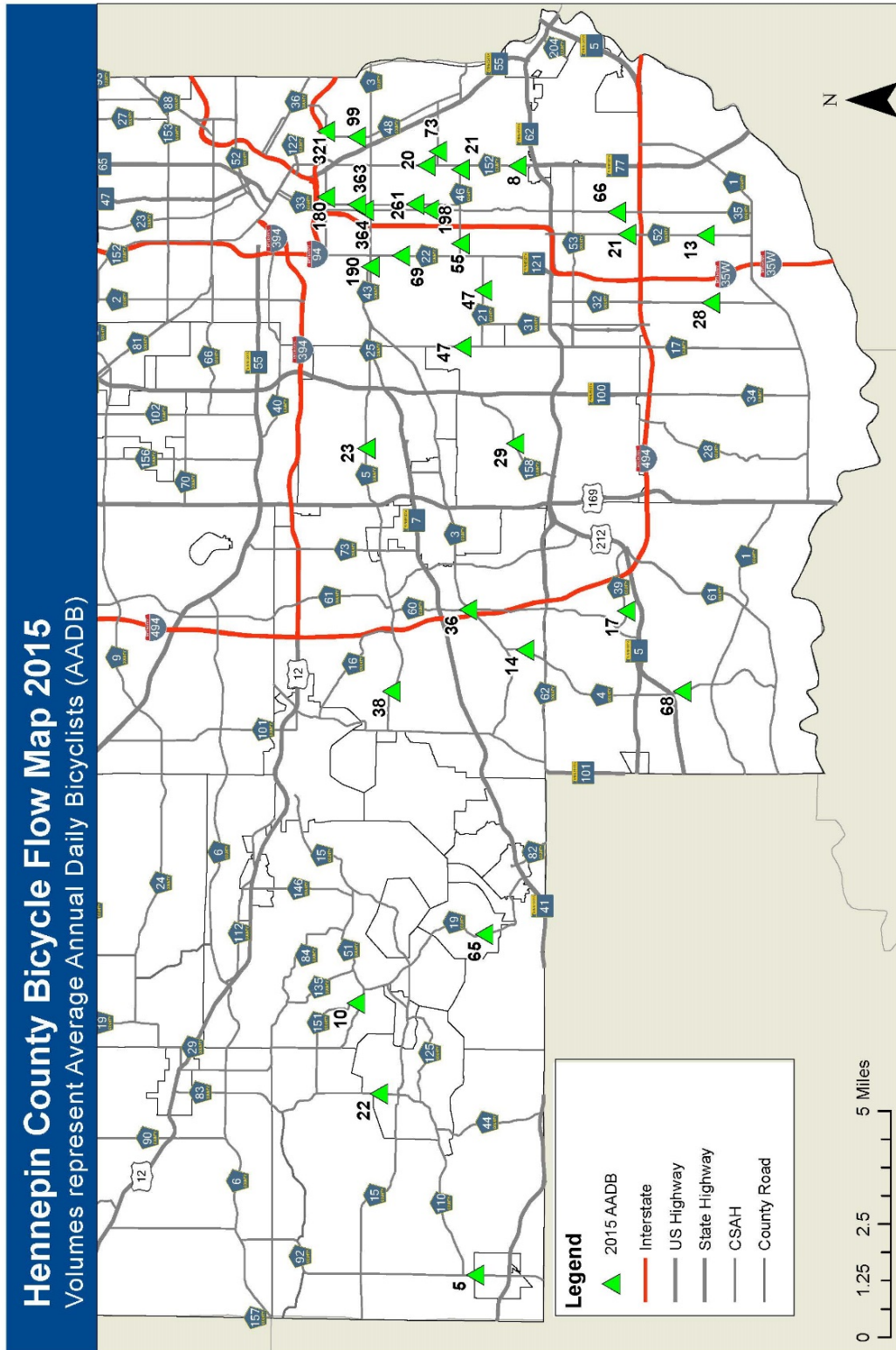
Station ID	Local name	Intersection	AADB	Jan ADB	July ADB
303	Lake Street West	E of Dupont	190*	38	371
401	Eden Prairie Road	S of Boys School Rd / N of Ferris Ln	14	3	27
402	Eden Prairie Road	N of Berger Drive	68	14	132
501	Franklin Avenue East	E of 27th St S	321	65	627
502	Franklin Avenue East	E of Elliot Ave / E of Chicago	180	36	352
504	Minnetonka Boulevard	W of Oregon Ave S	23	5	45
505	Minnetonka Boulevard	E of Steele St / E of Fairchild	38	8	74
1701	France Avenue	N of 47 St	47	9	91
1902	Shadywood Road	S of Crabapple Ln	65	13	127
2101	West 50th Street	E of James Ave S / W of Newton Ave S	47	10	92
2202	Lyndale Avenue	N of 36th St	69*	14	135
3202	Penn Avenue S	N of 91st St	28**	6	55
3301	Park Avenue South	S of 27th St	363	73	710
3302	Park Ave South	S of 37th St	261	53	511
3501	Portland Avenue South	S of 40th St	198	40	387
3502	Portland Avenue South	S of 28th	364	73	711
3503	Portland Avenue South	N of 74th St	66	13	129
3901	Valley View Road	W of Anagram Drive	17	3	33
4201	42nd Street	W of 22nd	73	15	143
4601	46th Street West	E of Pleasant	55	11	107
4602	46th Street West	E of 17th Ave	21	4	42
4802	26th Avenue South	S of Midtown Greenway	99	20	193
5201	Nicollet Avenue	N of 90th St	13	3	24
5202	Nicollet Avenue	N of 76th St	21	4	41
6001	Baker Road	N of Excelsior Ave	36	7	70
9201	County Road 92 North	N of Trista Ln	5	1	9
11001	Commerce Road	N of Grandview Blvd / Sherwood Dr	22	4	43
15101	North Arm Drive	N of Cherry Ave	10	2	19
15201	Cedar Avenue South	N of Nokomis Pkwy	8	2	16
15203	Cedar Avenue South	S of E 40th St	20	4	38
15801	Vernon Avenue South	E of Vernon Ln	29	6	56

Figure 5: Average Annual Daily Bicyclists (AADB) for all 2015 bicycle count locations

* In these locations, counts indicated are known to be undercounts.

** In this location, northbound traffic was doubled to estimate two way bicycle traffic. Southbound count equipment failed.

Figure 6: Map of 2015 bicycle count locations with AADB indicated



This map (i) is furnished "AS IS" with no representation as to completeness or accuracy; (ii) is furnished with no warranty of any kind; and (iii) is not suitable for legal, engineering or surveying purposes. Hennepin County shall not be liable for any damage, injury or loss resulting from this map.

Hennepin County Public Works

Public Works Planning Department
 Map version date: (02/09/2016)

Figure 7a: One page summary of a count site. At this site, both directions were counted in the same

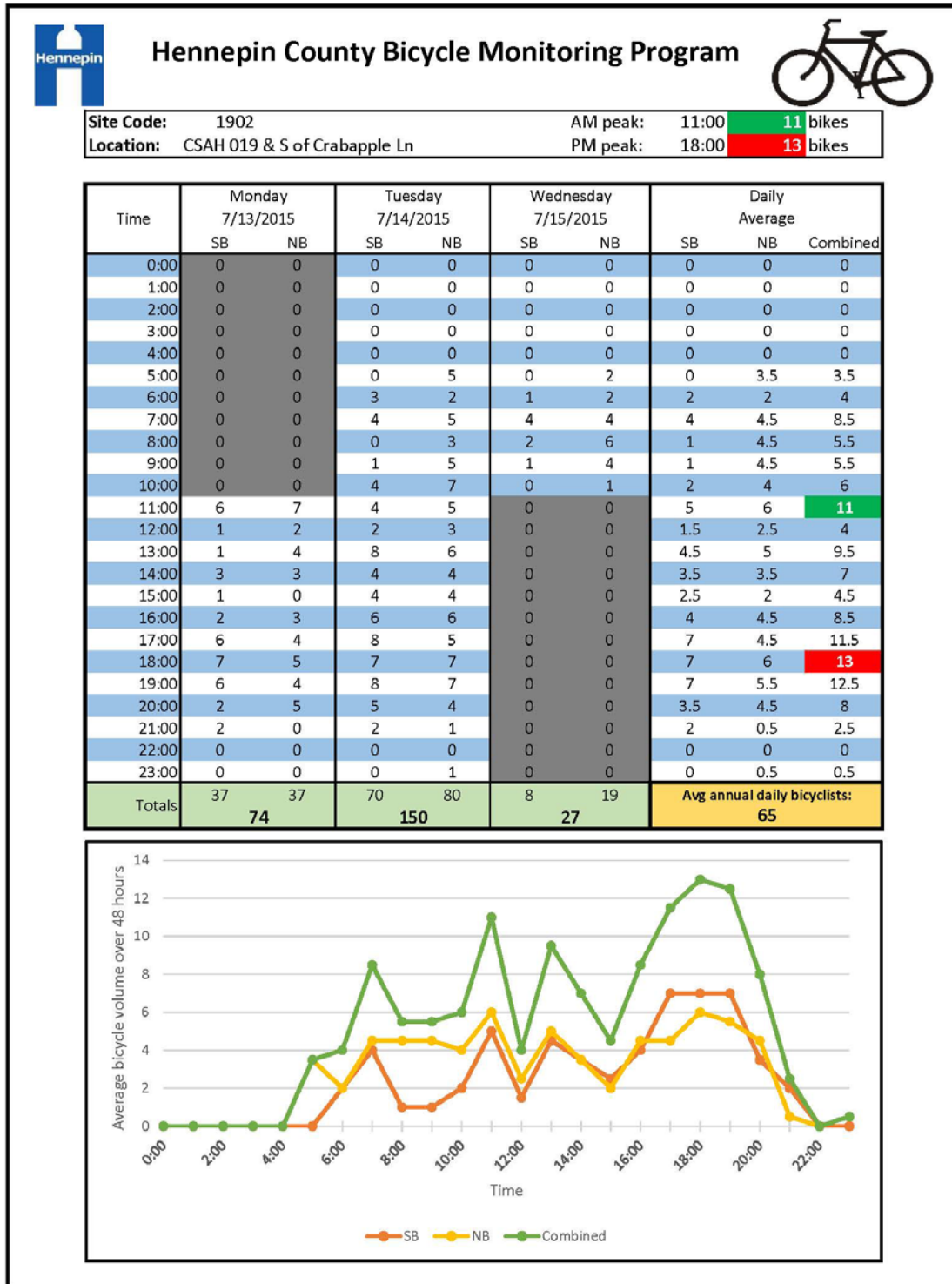
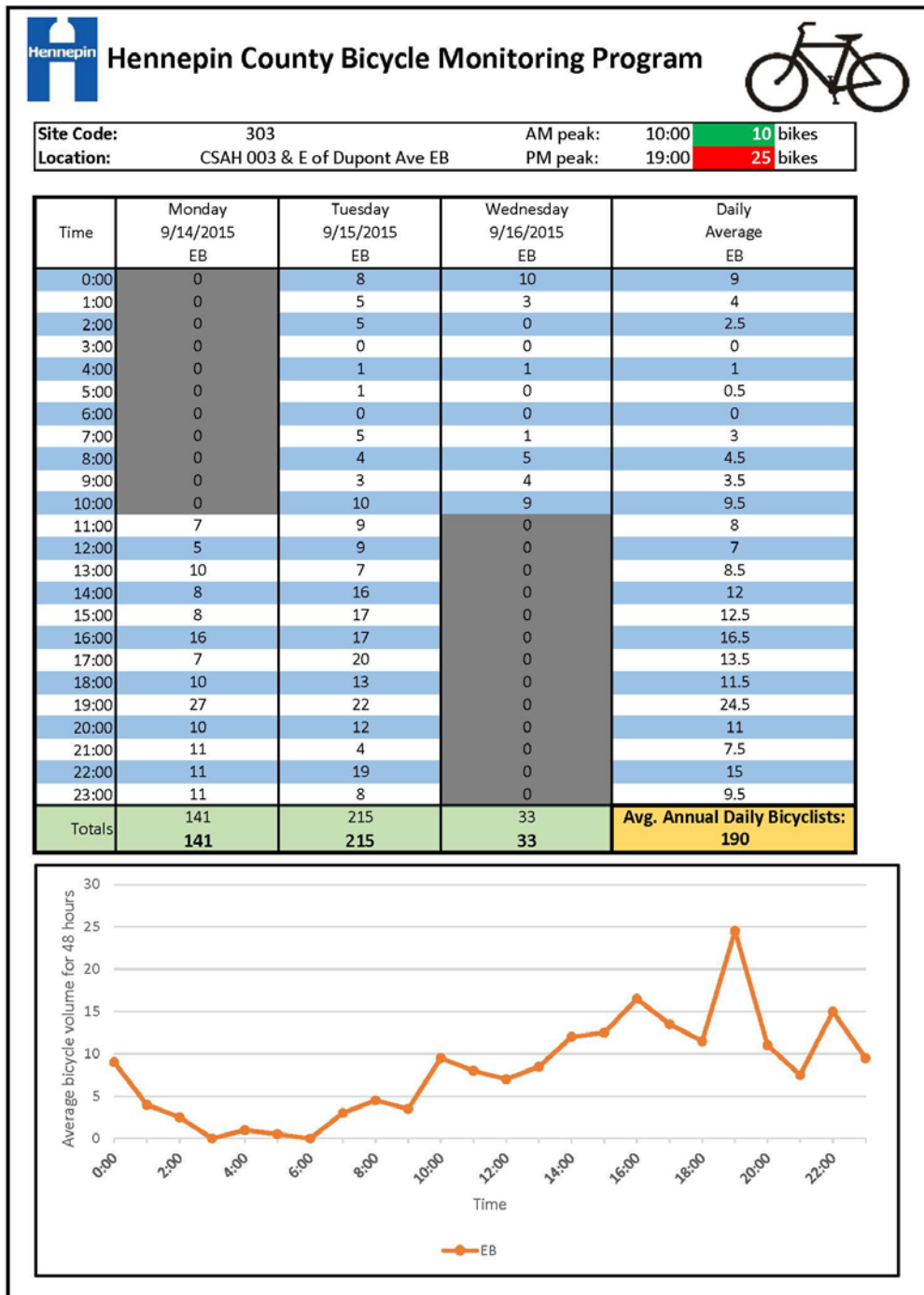


Figure 7b: One page summary of a count site (one direction). At this site, the two directions were counted on different days or in different locations due to equipment needs or re-counts. Note that the AADB indicated is the total estimate for both directions.



Limitations and lessons learned

1. *Lack of permanent / long term counting stations.* Due to the absence of county-owned permanent bicycle counting stations available in 2015, a permanent counting station hosted by MnDOT on Central Ave in Minneapolis was used to create a “day of year factor” for each day that was applied to the 48 hour counts to control for weather and other daily variables (see Appendix A for more information on day of year factors).

Furthermore, the Central Ave permanent counter is located in an urban environment so it does not fully represent traffic patterns around the county. Preferably, Hennepin County would have access to a number of permanent counters located around the county so that each of the 48-hour count sites could be matched to a permanent count site based on hourly and daily traffic patterns. This would improve the accuracy of the AADB estimates.

2. *Duration.* Hennepin County conducted 48 hour counts on weekdays. With a limited number of counters (4) and limited staff time, staff determined that 48 hour counts provided them with the flexibility needed to deploy and retrieve count equipment on different days while still completing other duties. However, 48 hour counts do not provide information on bicycle travel patterns experienced on weekends that can be compared to weekday information. For this reason, MnDOT recommends 7 day counts. Longer count duration improves accuracy but requires additional staff availability.

The 48 hour counts collected this year spanned three days (for example, 11am on a Monday to 11am on a Wednesday). As a result, staff had to calculate “day of year factors” for the exact time period of the 48 hour counts. It would significantly simplify procedures to have data in units of 24 hour days. For example, if data were to be collected from 11am on Monday to 11am on Thursday, full 24 hour counts would exist for Tuesday and Wednesday.

3. *Some re-counts needed.* Much was learned about the technical aspects of deploying Metrocount equipment in this pilot year. Based on experience with motor vehicle counting programs, staff anticipated that up to 30% of sites would need to be counted more than once due to technical problems. This year, 78% of count sites were successful on the first try; most of the rest were successful on the second try, and three sites took more than two tries.

Staff found that sites with higher vehicular traffic were more likely to fail due to the high number of motor vehicles running being registered by the counting devices. This increased the chance that a vehicle was misclassified by the counting device. Additionally, some sites experienced equipment failure due to street cleaners, heavy rain/flooding, and lawn mowing. In future years, additional care can be taken to avoid low lying sites that could be prone to flooding. Some street sweeping and lawn mowing operations are scheduled and can be avoided (eg Minneapolis’ street sweeping schedule) although occasional tube destruction by lawn mowers or street sweepers should be anticipated.

4. *Riding against traffic, sidewalk riding, and riding at speeds less than 8-9 mph is not included in data.* Although wrong way riding over the tubes was captured by Metrocount equipment and could be enumerated through further processing, it is not included in the data in this report. Sidewalk riding and riding at very slow speeds was not captured. Staff took care not to place count equipment on a steep hill where people were likely to be riding less than 8-9 mph, but occasional slow bikers, probably children, may have been missed. Locations where these behaviors are known to be common should be further studied using other count methods such as video counts.

Additionally, staff should keep the following technical recommendations in mind:

- Plates are used by motor vehicle count programs to secure the “far” side of the tube (the side farthest from the counting device). We do not recommend using plates because, due to the fact that bike counting tubes rarely cover the entire roadway, the far side of the tube is often in a location where motor vehicles run over it. We recommend using a knot and a figure 8 rather than plates because it stands up better to repeated hits by motor vehicles.
- Use 3.5 inch nails. In 2015, there was only one location (26th Ave S in Minneapolis) where the road was so hard that shorter nails needed to be used. Using 3.5 inch nails rather than shorter nails significantly decreases the likelihood that the nails will dislodge early.
- Drill and install nails at an angle so that the bottom of the nail is pointing ~20 degrees towards the center of the roadway. This technique significantly decreases the likelihood that the nails will dislodge early.

Next Steps

1. *Work with Hennepin County cities and park districts to compile and map comprehensive bicycle counting information.* This bicycle counting program focused only on Hennepin County roads. A number of cities and park districts already collect bicycle counts on their facilities using a variety of techniques. Hennepin County staff will take steps to compile existing count information on to one map in the coming months. A more long term strategy to continuously collect and compile this information should be developed over time.
2. *Continue to collect short term bicycle counts in 2016.* Approximately 35 sites have been selected for counts in northern Hennepin County for summer 2016. Although 48 hour counts are efficient when staff time and equipment is scarce, deploying equipment for longer than the minimum 48 hours could make analysis easier and could improve accuracy.
3. *Continue to pursue and install permanent counters.* As of January 2016, additional permanent counters have been installed at the following locations:
 - a. CSAH 33 (Park Avenue) in Minneapolis - EcoCounter technology
 - b. CSAH 6 in Orono - Sensys Networks technology
 - c. CSAH 116 in Rogers - Sensys Networks technology

Additional permanent counters are planned to be installed in 2016 at the following locations:

- a. CSAH 19 in Tonka Bay - EcoCounter technology
- b. CSAH 152 (Brooklyn Boulevard) in Brooklyn Center - Sensys Networks technology

These additional permanent counting sites will provide invaluable information for count programs in summer 2016 and beyond. Hennepin County will continue to pursue permanent counters in a variety of locations in order to better understand how bicycle traffic patterns change in different settings. More permanent counters will help improve the accuracy of the estimated AADB.

4. *Continue to collect counts at locations of special interest.* This annual bicycle monitoring program is helpful in better understanding bicycle traffic all around the Hennepin County network. However, it does not provide the level of detail that is preferred at locations where major projects are planned and where additional information, such as turning movements, wrong way riding, and sidewalk riding needs to be quantified. Video counts, while they are more time consuming and are not recommended on a large scale, are the best way to analyze locations of special interest.

Appendix A: Average Annual Daily Bicyclists (AADB) and seasonal average calculations

In order to calculate AADB, staff used a permanent counting station at the intersection of Central Ave and Lowry Ave in Minneapolis that collected bicycle volumes 365 days per year to **estimate how bicycle traffic on any given day compared to the average bicycle traffic from that entire year.** This serves as a control for weather and other unknown daily factors.

Steps to calculate AADB are as follows:

1. Obtain a chart that lists the hourly traffic at the Central Ave & Lowry Ave site for every hour of 2015.
2. Calculate bicycle volumes at the Central Ave site (southbound only because northbound broke) for the exact time period of each 48 hour count. For example, for site 303 EB, 123 bicyclists were counted between 11am on 9/14/15 and 11am on 9/16/15.
3. Divide that number by the total volume for the year at the Central Ave site. This will give you the percentage of annual traffic at this location that took place during each 48 hour sample period. At site 303 EB, that calculation is $123 / 13146 = .00917$. In other words, 0.917% of annual traffic at the Central Ave location took place between 11am on 9/14/15 and 11am on 9/16/15.
4. Divide the 48 hour raw counts at each location by the percentage calculated in step 3 above. This will give you the estimated annual traffic at each location. For site 303 EB, this calculation is $389 / .00917 = 42429$. In other words, the estimated annual bicycle traffic at site 303 EB is 42,429.
5. Divide the estimated annual traffic at each location by 365 to get annual average daily bicycle traffic (AADB). At site 303 EB, this is $42429 / 365 = 389$.
6. For one-way sites or sites where both directions were counted at the same place at the same time (i.e. both directions are represented in the 48 hour raw count), 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 AADB for the two directions. Note that if counts were collected in different times or places, you do need to calculate AADB independently for each direction – do not combine raw counts unless taken at the exact same time and place.

Steps to calculate monthly or seasonal average are as follows:

1. Obtain a chart that lists the hourly traffic at the Central Ave & Lowry Ave site for every hour of 2015.
2. Calculate bicycle volumes at the Central Ave site (southbound only because northbound broke) for the exact time period of each 48 hour count.
3. Divide that number by the total volume for the month or season of interest. This will give you the percentage of monthly/seasonal traffic at this location that took place during each 48 hour sample period.
4. Divide the 48 hour raw counts at each location by the percentage calculated in step 3 above. This will give you the estimated monthly/seasonal bicycle traffic at each location.

5. Divide the estimated monthly/seasonal traffic at each location by the number of days in that time period of interest to get the average daily bicycle traffic for that time period.
6. 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 AADB for the two directions. Note that if counts were collected in different times or places, you do need to calculate AADB independently for each direction – do not combine raw counts unless taken at the exact same time and place.

Appendix B: One page summaries from each count location

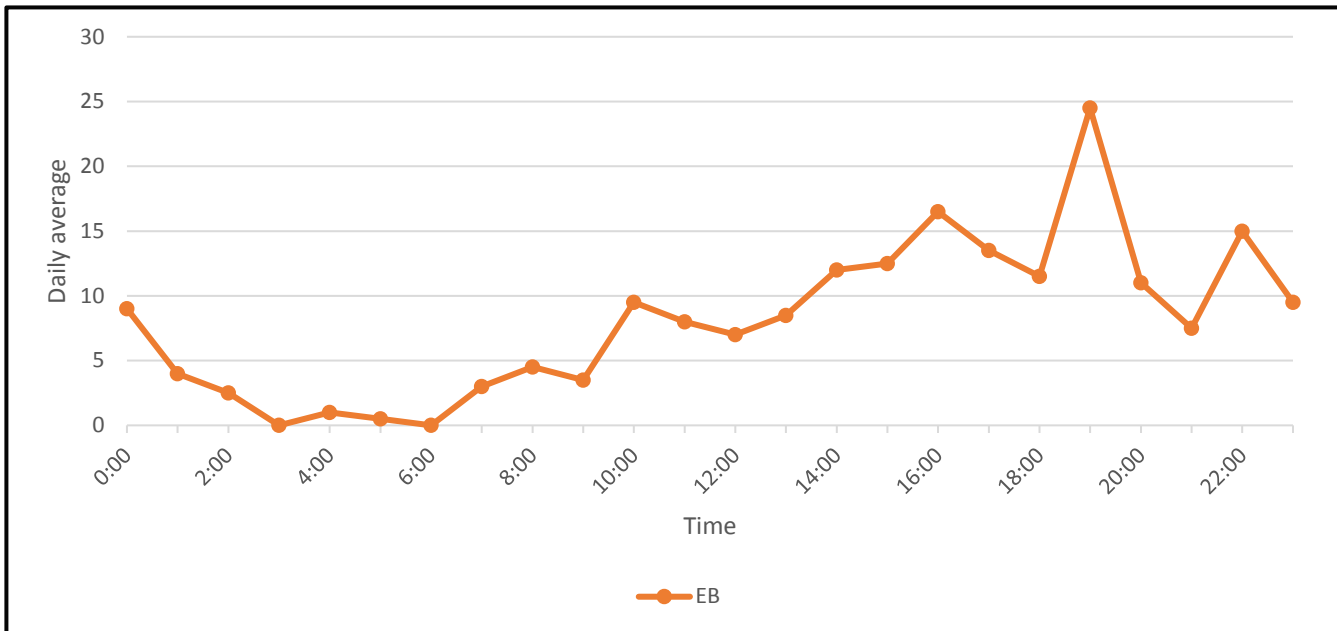


Hennepin County Bicycle Monitoring Program



Site Code:	303	AM peak:	10:00	10 bikes
Location:	CSAH 003 & E of Dupont Ave EB	PM peak:	19:00	25 bikes

Time	Monday 9/14/2015 EB	Tuesday 9/15/2015 EB	Wednesday 9/16/2015 EB	Daily Average EB
0:00	0	8	10	9
1:00	0	5	3	4
2:00	0	5	0	2.5
3:00	0	0	0	0
4:00	0	1	1	1
5:00	0	1	0	0.5
6:00	0	0	0	0
7:00	0	5	1	3
8:00	0	4	5	4.5
9:00	0	3	4	3.5
10:00	0	10	9	9.5
11:00	7	9	0	8
12:00	5	9	0	7
13:00	10	7	0	8.5
14:00	8	16	0	12
15:00	8	17	0	12.5
16:00	16	17	0	16.5
17:00	7	20	0	13.5
18:00	10	13	0	11.5
19:00	27	22	0	24.5
20:00	10	12	0	11
21:00	11	4	0	7.5
22:00	11	19	0	15
23:00	11	8	0	9.5
Totals	141	215	33	Avg. Annual Daily Bicyclists: 190



Note: The AADB of 190 is the total for both directions.

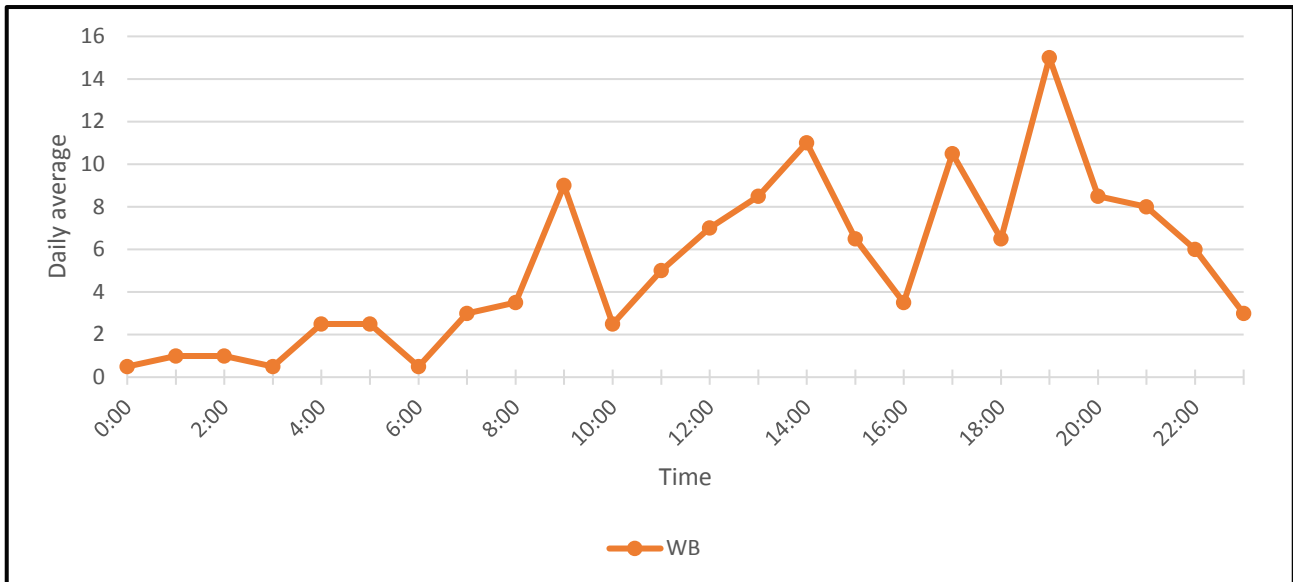


Hennepin County Bicycle Monitoring Program



Site Code: 303 AM peak: 9:00 9 bikes
Location: CSAH 003 & E of Dupont Ave westbound PM peak: 19:00 15 bikes

Time	Monday 9/21/2015 WB	Tuesday 9/22/2015 WB	Wednesday 9/23/2015 WB	Daily Average WB
0:00	0	1	0	0.5
1:00	0	0	2	1
2:00	0	1	1	1
3:00	0	0	1	0.5
4:00	0	2	3	2.5
5:00	0	2	3	2.5
6:00	0	0	1	0.5
7:00	0	2	4	3
8:00	0	3	4	3.5
9:00	0	8	10	9
10:00	0	3	2	2.5
11:00	2	8	0	5
12:00	6	8	0	7
13:00	7	10	0	8.5
14:00	9	13	0	11
15:00	4	9	0	6.5
16:00	2	5	0	3.5
17:00	8	13	0	10.5
18:00	5	8	0	6.5
19:00	11	19	0	15
20:00	8	9	0	8.5
21:00	9	7	0	8
22:00	2	10	0	6
23:00	2	4	0	3
Totals	75 75	145 145	31 31	Avg annual daily bicyclists: 190



Note: Actual count likely to be higher. This is a minimum. The AADB of 190 is the total for both directions.

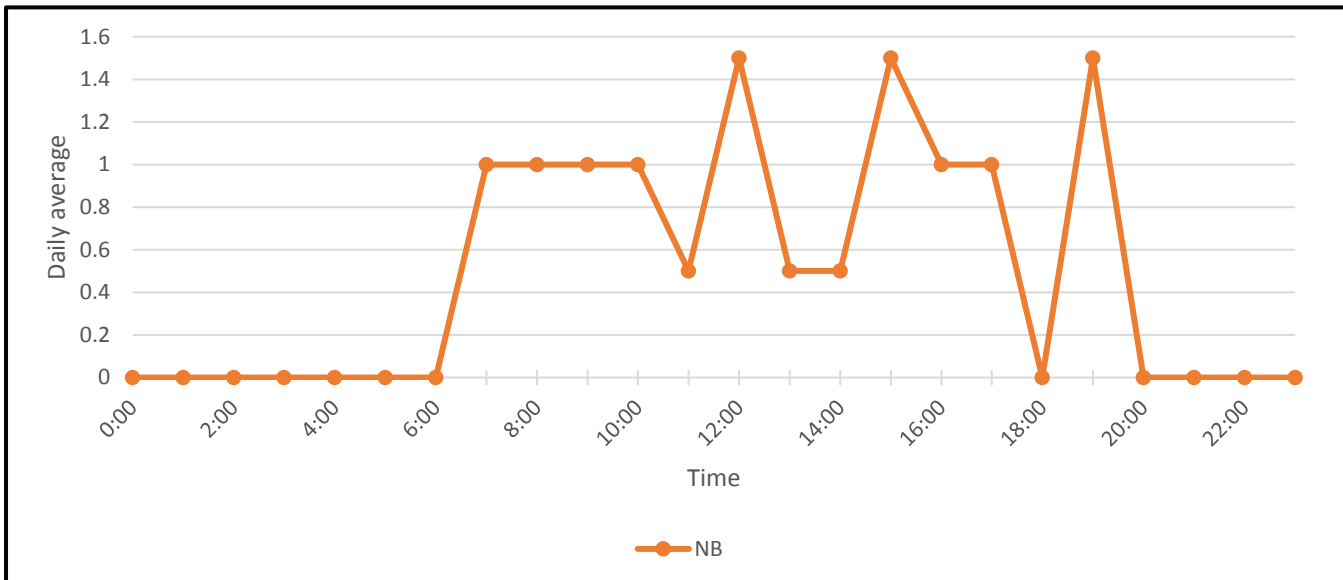


Hennepin County Bicycle Monitoring Program



Site Code: 401 AM peak: 7:00 1 bikes
Location: CSAH 004 & N of Boys School Rd northbound PM peak: 12:00 1.5 bikes

Time	Monday 7/13/2015 NB	Tuesday 7/14/2015 NB	Wednesday 7/15/2015 NB	Daily Average NB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	0	0	0
7:00	0	1	1	1
8:00	0	2	0	1
9:00	0	2	0	1
10:00	0	2	0	1
11:00	0	1	0	0.5
12:00	1	2	0	1.5
13:00	1	0	0	0.5
14:00	0	1	0	0.5
15:00	2	1	0	1.5
16:00	1	1	0	1
17:00	2	0	0	1
18:00	0	0	0	0
19:00	3	0	0	1.5
20:00	0	0	0	0
21:00	0	0	0	0
22:00	0	0	0	0
23:00	0	0	0	0
Totals	10 10	13 13	1 1	Avg annual daily bicyclists: 14



Note: The AADB of 14 is the total for both directions.

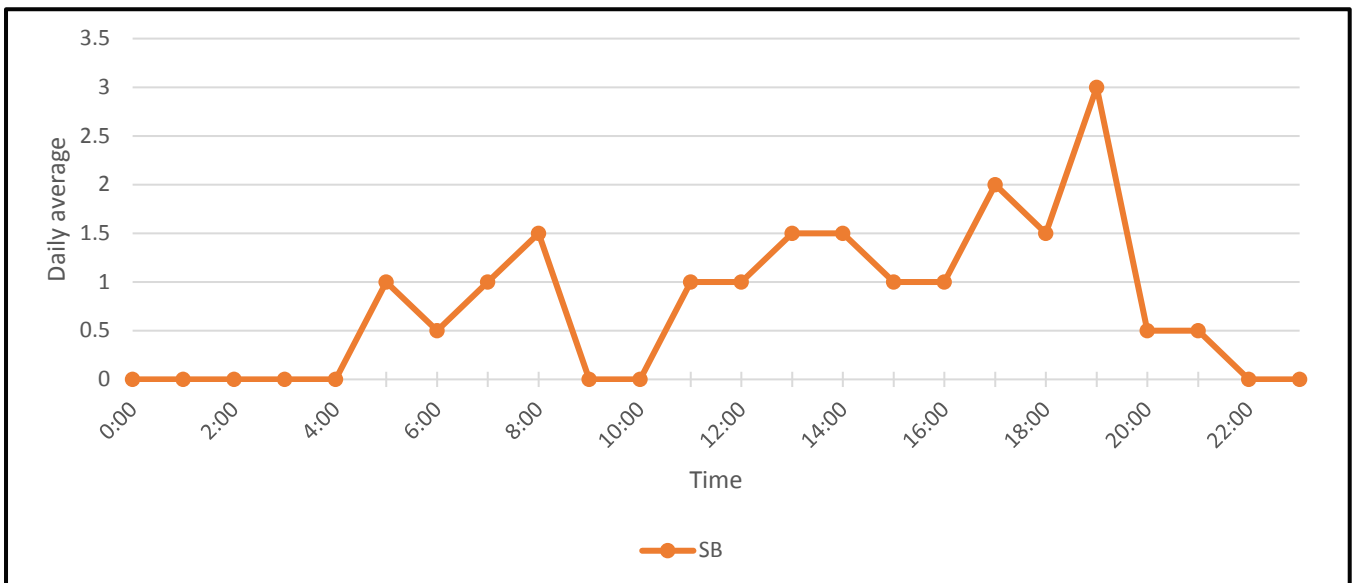


Hennepin County Bicycle Monitoring Program



Site Code: 401 AM peak: 8:00 **1.5** bikes
Location: CSAH 004 & N of Ferris Ln southbound PM peak: 19:00 **3** bikes

Time	Tuesday 7/7/2015 SB	Wednesday 7/8/2015 SB	Thursday 7/9/2015 SB	Daily Average SB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	1	1	1
6:00	0	1	0	0.5
7:00	0	2	0	1
8:00	0	1	2	1.5
9:00	0	0	0	0
10:00	0	0	0	0
11:00	0	1	1	1
12:00	0	2	0	1
13:00	2	1	0	1.5
14:00	2	1	0	1.5
15:00	1	1	0	1
16:00	1	1	0	1
17:00	2	2	0	2
18:00	2	1	0	1.5
19:00	5	1	0	3
20:00	0	1	0	0.5
21:00	1	0	0	0.5
22:00	0	0	0	0
23:00	0	0	0	0
Totals	16 16	17 17	4 4	Avg annual daily bicyclists: 14



Note: The AADB of 14 is the total for both directions.

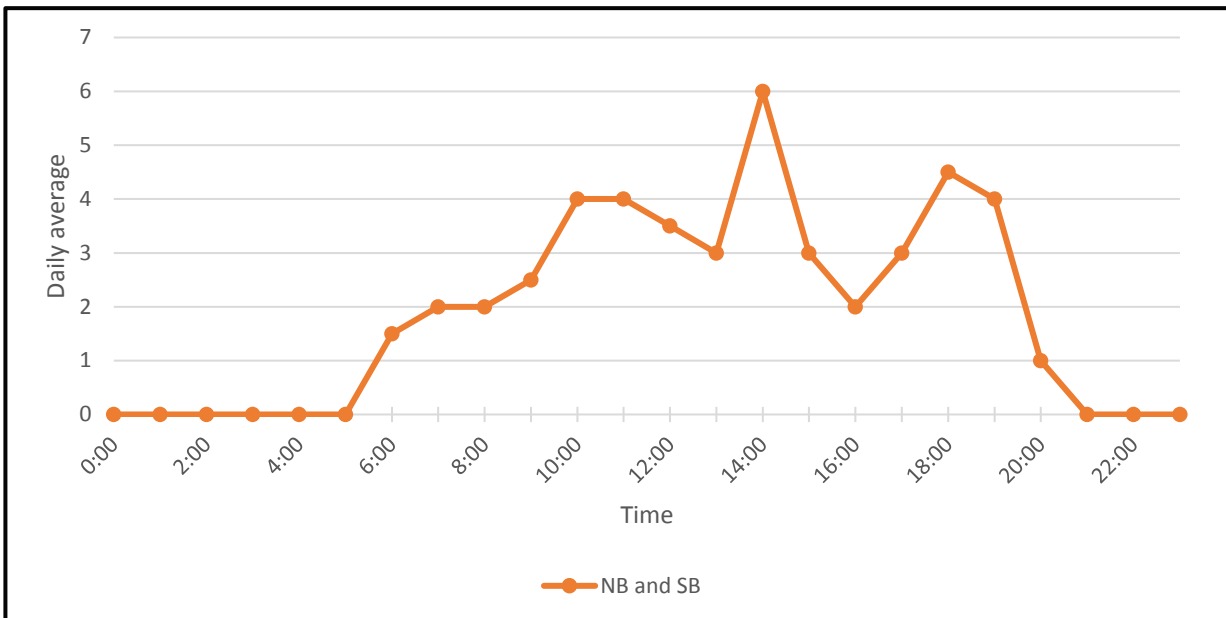


Hennepin County Bicycle Monitoring Program



Site Code: 402 east side trail AM peak: 10:00 **4** bikes
Location: CSAH 004 & N of Berger Dr PM peak: 14:00 **6** bikes

Time	Monday 8/31/2015 NB and SB	Tuesday 9/1/2015 NB and SB	Wednesday 9/2/2015 NB and SB	Daily Average NB and SB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	2	1	1.5
7:00	0	3	1	2
8:00	0	3	1	2
9:00	0	4	1	2.5
10:00	0	3	5	4
11:00	1	7	0	4
12:00	0	7	0	3.5
13:00	3	3	0	3
14:00	9	3	0	6
15:00	2	4	0	3
16:00	2	2	0	2
17:00	3	3	0	3
18:00	8	1	0	4.5
19:00	2	6	0	4
20:00	2	0	0	1
21:00	0	0	0	0
22:00	0	0	0	0
23:00	0	0	0	0
Totals	32 32	51 51	9 9	Avg annual daily bicyclists: 68



Note: The AADB of 68 is the total for trails on both side of the road.



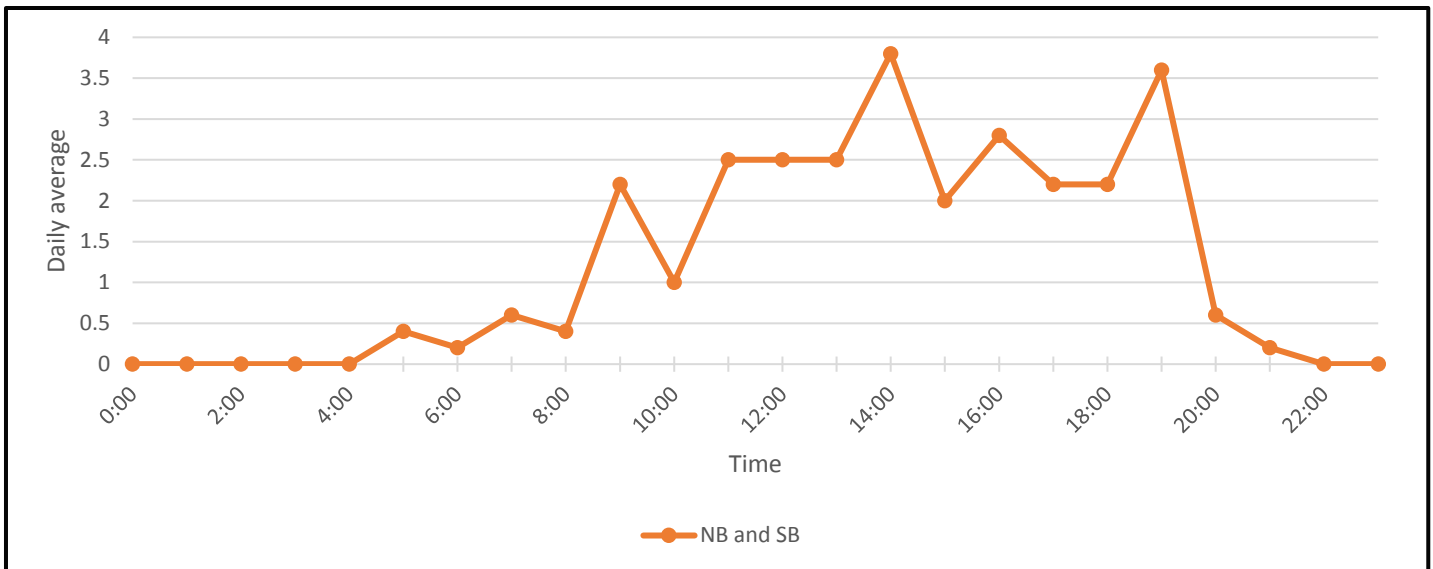
Hennepin County Bicycle Monitoring Program



Site Code: 402 west side trail
Location: CSAH 004 & N of Berger Dr

AM Peak Hour Starts At: 11:00 **2.5** bikes
PM Peak Hour Starts At: 14:00 **3.8** bikes

Time	Wednesday 8/26/2015 NB and SB	Thursday 8/27/2015 NB and SB	Friday 8/28/2015 NB and SB	Saturday 8/29/2015 NB and SB	Sunday 8/30/2015 NB and SB	Monday 8/31/2015 NB and SB	Daily Average NB and SB
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	1	0	0.4
6:00	0	0	0	0	0	1	0.2
7:00	0	1	0	2	0	0	0.6
8:00	0	0	0	2	0	0	0.4
9:00	0	4	3	2	1	1	2.2
10:00	0	4	0	0	0	0	1
11:00	0	0	3	5	2	0	2.5
12:00	0	2	3	2	3	0	2.5
13:00	0	2	1	2	5	0	2.5
14:00	7	0	4	2	6	0	3.8
15:00	1	4	2	0	3	0	2
16:00	6	2	0	5	1	0	2.8
17:00	0	2	0	0	9	0	2.2
18:00	0	4	2	0	5	0	2.2
19:00	2	3	6	1	6	0	3.6
20:00	1	1	0	1	0	0	0.6
21:00	0	0	0	0	1	0	0.2
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	17 17	29 29	25 25	24 24	43 43	2 2	Avg annual daily bicyclists: 68



Note: Data was collected at this site from 8/26 through 8/31. AADB was calculated using 8/26 through 8/28 only. The AADB of 68 is the total for both directions.

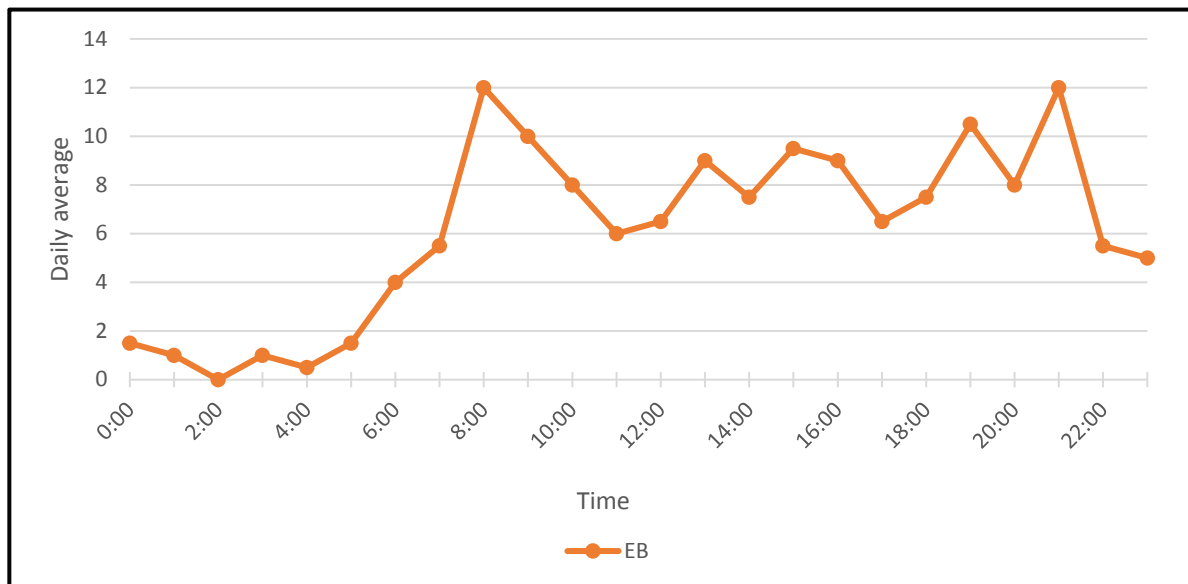


Hennepin County Bicycle Monitoring Program



Site Code: 501 eastbound AM peak: 8:00 **12** bikes
Location: CSAH 005 & E of 27th St S EB PM peak: 21:00 **12** bikes

Time	Wednesday 5/6/2015 EB	Thursday 5/7/2015 EB	Friday 5/8/2015 EB	Daily Average EB
0:00	0	1	2	1.5
1:00	0	0	2	1
2:00	0	0	0	0
3:00	0	1	1	1
4:00	0	1	0	0.5
5:00	0	2	1	1.5
6:00	0	1	7	4
7:00	0	5	6	5.5
8:00	0	10	14	12
9:00	0	3	17	10
10:00	0	4	12	8
11:00	0	6	0	6
12:00	3	10	0	6.5
13:00	12	6	0	9
14:00	12	3	0	7.5
15:00	13	6	0	9.5
16:00	7	11	0	9
17:00	8	5	0	6.5
18:00	13	2	0	7.5
19:00	15	6	0	10.5
20:00	7	9	0	8
21:00	11	13	0	12
22:00	2	9	0	5.5
23:00	5	5	0	5
Totals	108 108	119 119	62 62	Avg annual daily bicyclists: 321



Note: The AADB of 321 is the total for both directions.

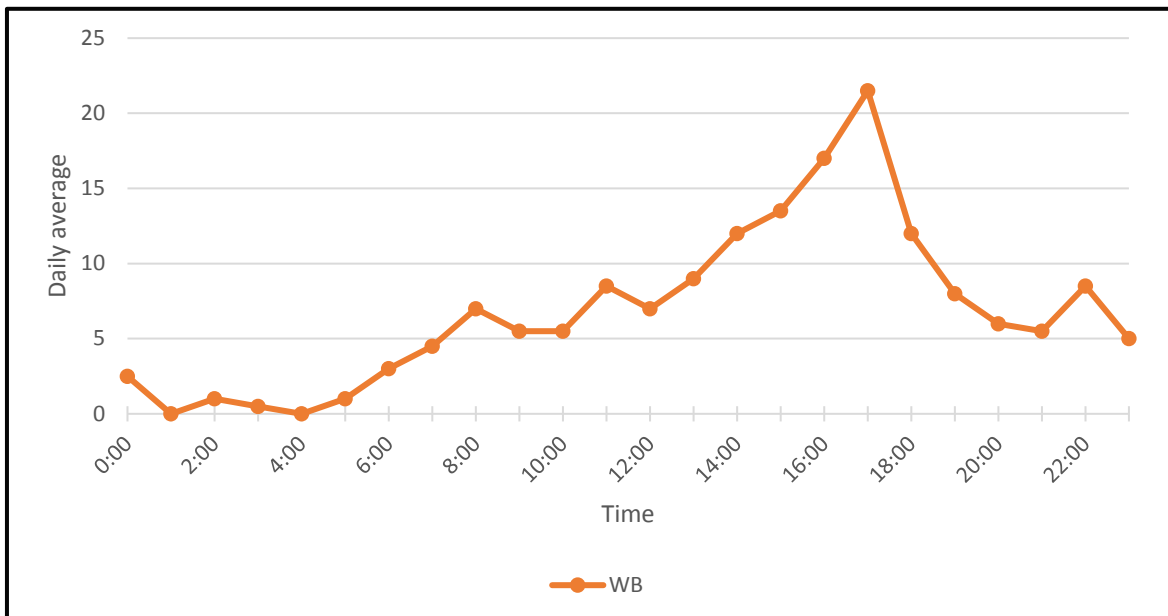


Hennepin County Bicycle Monitoring Program



Site Code:	501 westbound	AM peak: 11:00	8.5 bikes
Location:	CSAH 005 & E of 27th St S	PM peak: 17:00	21.5 bikes

Time	Wednesday 9/9/2015 WB	Thursday 9/10/2015 WB	Friday 9/11/2015 WB	Daily Average WB
0:00	0	0	5	2.5
1:00	0	0	0	0
2:00	0	0	2	1
3:00	0	1	0	0.5
4:00	0	0	0	0
5:00	0	1	1	1
6:00	0	4	2	3
7:00	0	3	6	4.5
8:00	0	6	8	7
9:00	0	4	7	5.5
10:00	0	7	4	5.5
11:00	8	9	0	8.5
12:00	5	9	0	7
13:00	8	10	0	9
14:00	9	15	0	12
15:00	13	14	0	13.5
16:00	16	18	0	17
17:00	28	15	0	21.5
18:00	13	11	0	12
19:00	10	6	0	8
20:00	7	5	0	6
21:00	3	8	0	5.5
22:00	5	12	0	8.5
23:00	6	4	0	5
Totals	131 131	162 162	35 35	Avg annual daily bicyclists: 321



Note: AADB of 321 is the total for both directions.

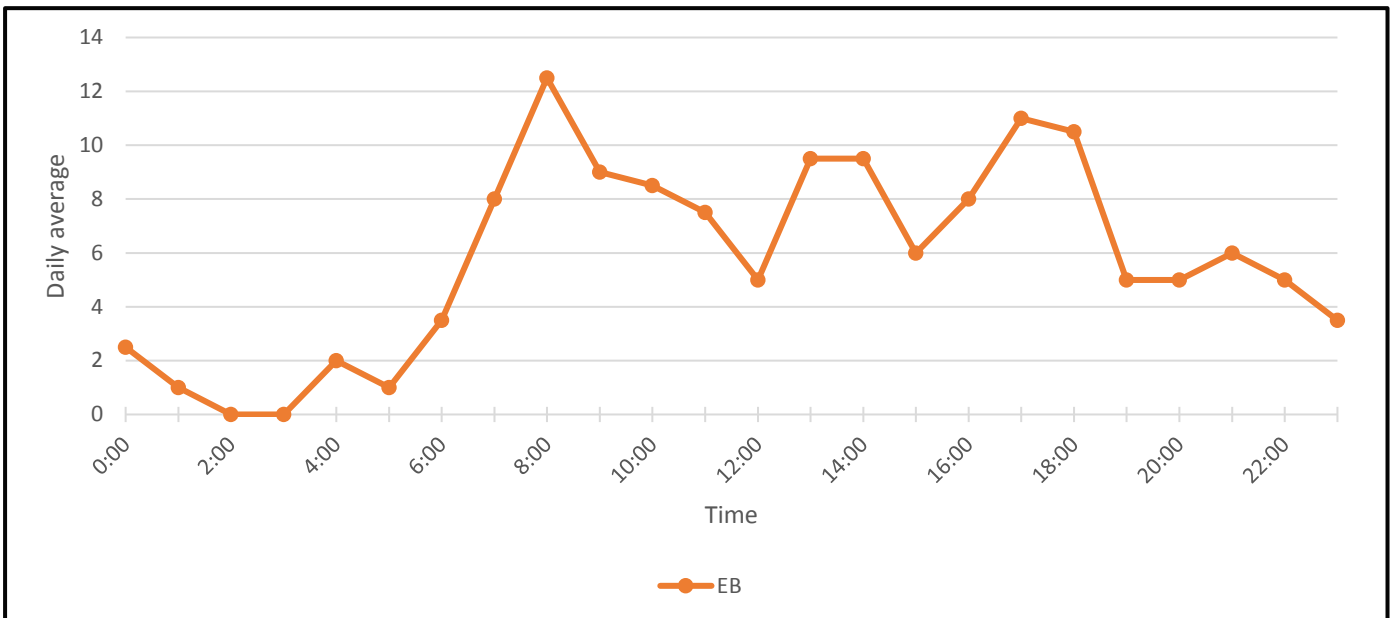


Hennepin County Bicycle Monitoring Program



Site Code: 502 eastbound AM peak: 8:00 **12.5** bikes
Location: CSAH 005 & E of Elliot Ave EB PM peak: 17:00 **11** bikes

Time	Monday 10/5/2015 EB	Tuesday 10/6/2015 EB	Wednesday 10/7/2015 EB	Daily Average EB
0:00	0	4	1	2.5
1:00	0	2	0	1
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	2	2	2
5:00	0	1	1	1
6:00	0	3	4	3.5
7:00	0	5	11	8
8:00	0	13	12	12.5
9:00	0	8	10	9
10:00	0	7	10	8.5
11:00	9	6	0	7.5
12:00	5	5	0	5
13:00	8	11	0	9.5
14:00	10	9	0	9.5
15:00	5	7	0	6
16:00	9	7	0	8
17:00	9	13	0	11
18:00	11	10	0	10.5
19:00	5	5	0	5
20:00	2	8	0	5
21:00	7	5	0	6
22:00	4	6	0	5
23:00	5	2	0	3.5
Totals	89 89	139 139	51 51	Avg annual daily bicyclists: 180



Note: The AADB of 180 is the total for both directions.

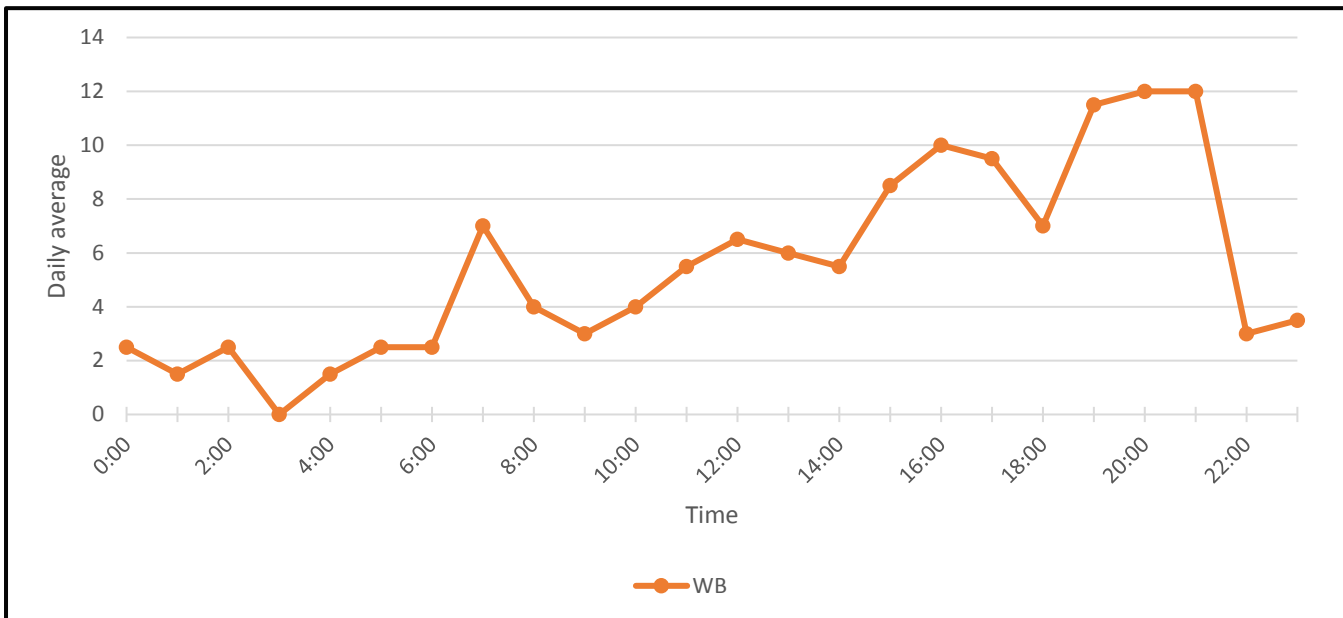


Hennepin County Bicycle Monitoring Program



Site Code: 502 westbound AM peak: 7:00 **7** bikes
Location: CSAH 005 & E of Chicago Ave PM peak: 20:00 **12** bikes

Time	Monday 9/14/2015 WB	Tuesday 9/15/2015 WB	Wednesday 9/16/2015 WB	Daily Average WB
0:00	0	3	2	2.5
1:00	0	2	1	1.5
2:00	0	3	2	2.5
3:00	0	0	0	0
4:00	0	2	1	1.5
5:00	0	1	4	2.5
6:00	0	1	4	2.5
7:00	0	8	6	7
8:00	0	4	4	4
9:00	0	4	2	3
10:00	0	5	3	4
11:00	7	4	0	5.5
12:00	8	5	0	6.5
13:00	7	5	0	6
14:00	5	6	0	5.5
15:00	5	12	0	8.5
16:00	11	9	0	10
17:00	12	7	0	9.5
18:00	9	5	0	7
19:00	18	5	0	11.5
20:00	15	9	0	12
21:00	12	12	0	12
22:00	4	2	0	3
23:00	5	2	0	3.5
Totals	118 118	116 116	29 29	Avg annual daily bicyclists: 180



Note: The AADB of 180 is the total for both directions.

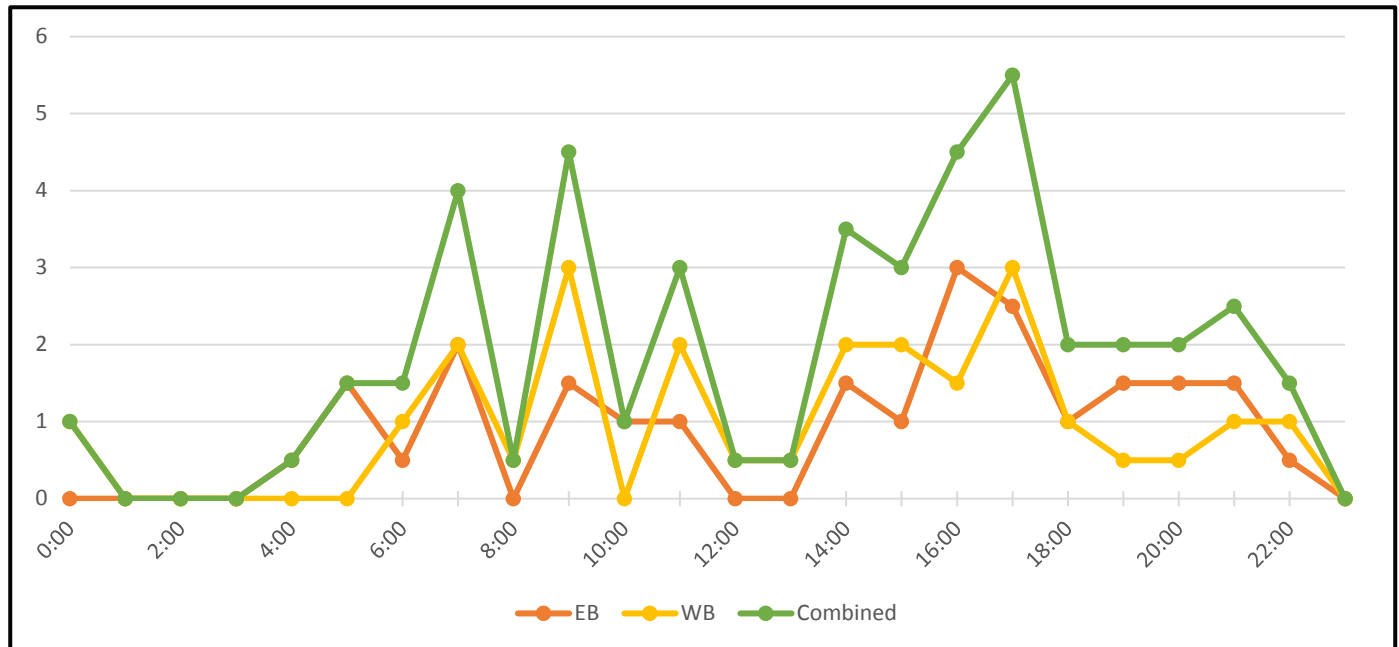


Hennepin County Bicycle Monitoring Program



Site Code: 504 AM peak: 9:00 **4.5** bikes
 Location: CSAH 005 & W of Oregon Ave S PM peak: 17:00 **5.5** bikes

Time	Monday 6/29/2015		Tuesday 6/30/2015		Wednesday 7/1/2015		Daily Average		
	EB	WB	EB	WB	EB	WB	EB	WB	Combined
0:00	0	0	0	0	0	2	0	1	1
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	1	0	0	0	0.5	0	0.5
5:00	0	0	3	0	0	0	1.5	0	1.5
6:00	0	0	1	1	0	1	0.5	1	1.5
7:00	0	0	4	2	0	2	2	2	4
8:00	0	0	0	0	0	1	0	0.5	0.5
9:00	0	0	1	3	2	3	1.5	3	4.5
10:00	0	0	1	0	1	0	1	0	1
11:00	0	0	1	1	1	3	1	2	3
12:00	0	0	0	1	0	0	0	0.5	0.5
13:00	0	0	0	0	0	1	0	0.5	0.5
14:00	3	2	0	2	0	0	1.5	2	3.5
15:00	1	1	1	3	0	0	1	2	3
16:00	1	1	5	2	0	0	3	1.5	4.5
17:00	0	2	5	4	0	0	2.5	3	5.5
18:00	2	1	0	1	0	0	1	1	2
19:00	1	1	2	0	0	0	1.5	0.5	2
20:00	0	0	3	1	0	0	1.5	0.5	2
21:00	1	0	2	2	0	0	1.5	1	2.5
22:00	0	1	1	1	0	0	0.5	1	1.5
23:00	0	0	0	0	0	0	0	0	0
Totals	9	9	31	24	4	13	Avg annual daily bicyclists: 23		
	18		55		17				



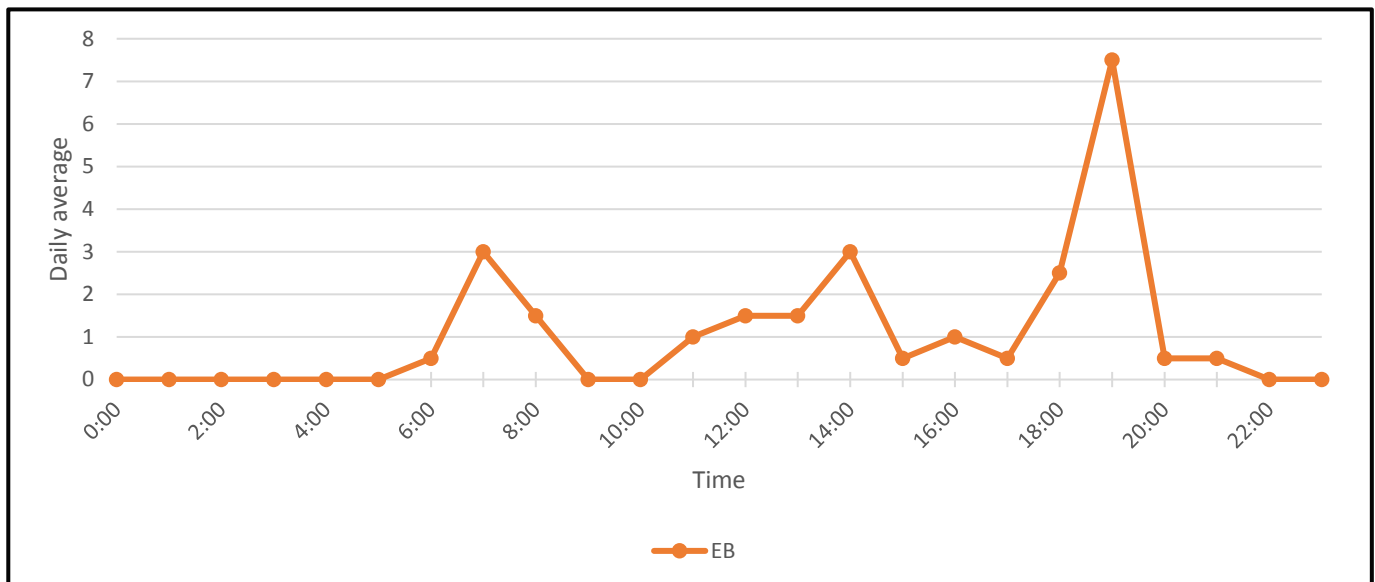


Hennepin County Bicycle Monitoring Program



Site Code: 505 eastbound AM peak: 7:00 **3** bikes
Location: CSAH 005 & E of Steele St PM peak: 19:00 **7.5** bikes

Time	Monday 6/29/2015 EB	Tuesday 6/30/2015 EB	Wednesday 7/1/2015 EB	Daily Average EB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	1	0	0.5
7:00	0	5	1	3
8:00	0	0	3	1.5
9:00	0	0	0	0
10:00	0	0	0	0
11:00	0	1	1	1
12:00	0	0	3	1.5
13:00	2	1	0	1.5
14:00	6	0	0	3
15:00	1	0	0	0.5
16:00	2	0	0	1
17:00	1	0	0	0.5
18:00	1	4	0	2.5
19:00	6	9	0	7.5
20:00	1	0	0	0.5
21:00	0	1	0	0.5
22:00	0	0	0	0
23:00	0	0	0	0
Totals	20 20	22 22	8 8	Avg annual daily bicyclists: 38



Note: The AADB of 38 is the total for both directions.

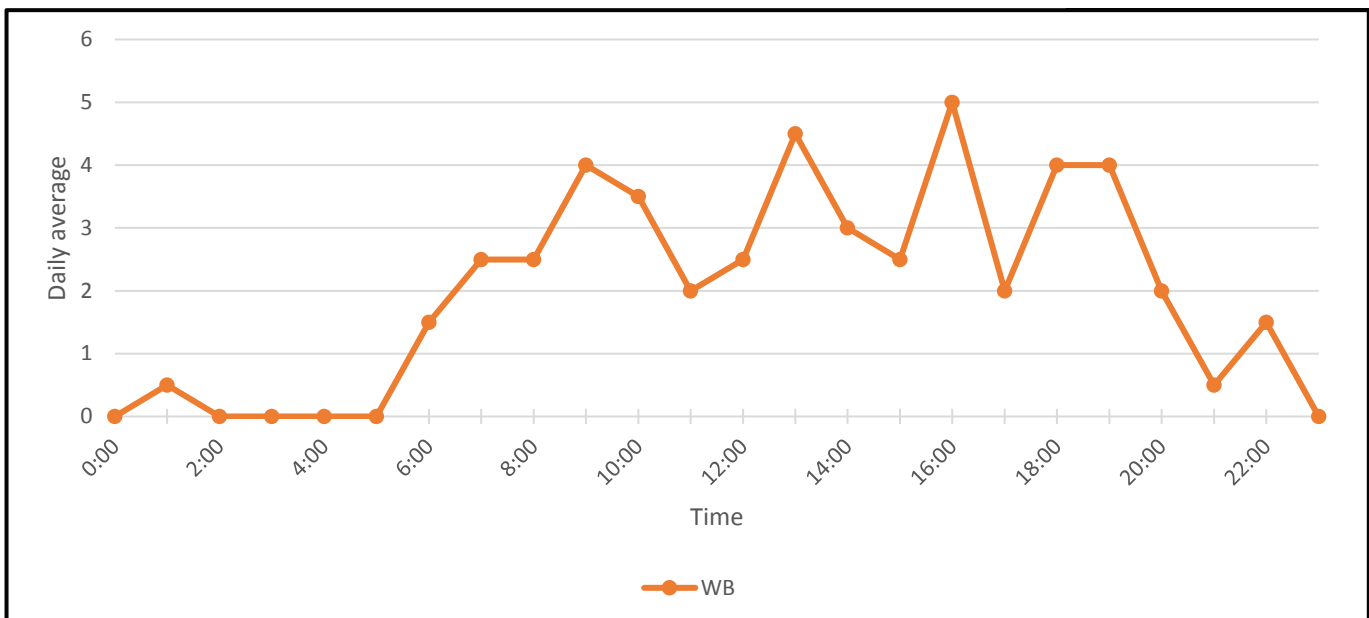


Hennepin County Bicycle Monitoring Program



Site Code: 505 westbound AM peak: 9:00 4 bikes
Location: CSAH 005 & E of Fairchild PM peak: 16:00 5 bikes

Time	Tuesday 8/4/2015 WB	Wednesday 8/5/2015 WB	Thursday 8/6/2015 WB	Daily Average WB
0:00	0	0	0	0
1:00	0	1	0	0.5
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	2	1	1.5
7:00	0	1	4	2.5
8:00	0	4	1	2.5
9:00	0	2	6	4
10:00	0	5	2	3.5
11:00	0	3	1	2
12:00	2	3	0	2.5
13:00	6	3	0	4.5
14:00	5	1	0	3
15:00	1	4	0	2.5
16:00	6	4	0	5
17:00	2	2	0	2
18:00	1	7	0	4
19:00	2	6	0	4
20:00	2	2	0	2
21:00	0	1	0	0.5
22:00	0	3	0	1.5
23:00	0	0	0	0
Totals	27 27	54 54	15 15	Avg annual daily bicyclists: 38



Note: The AADB of 38 is the total for both directions.

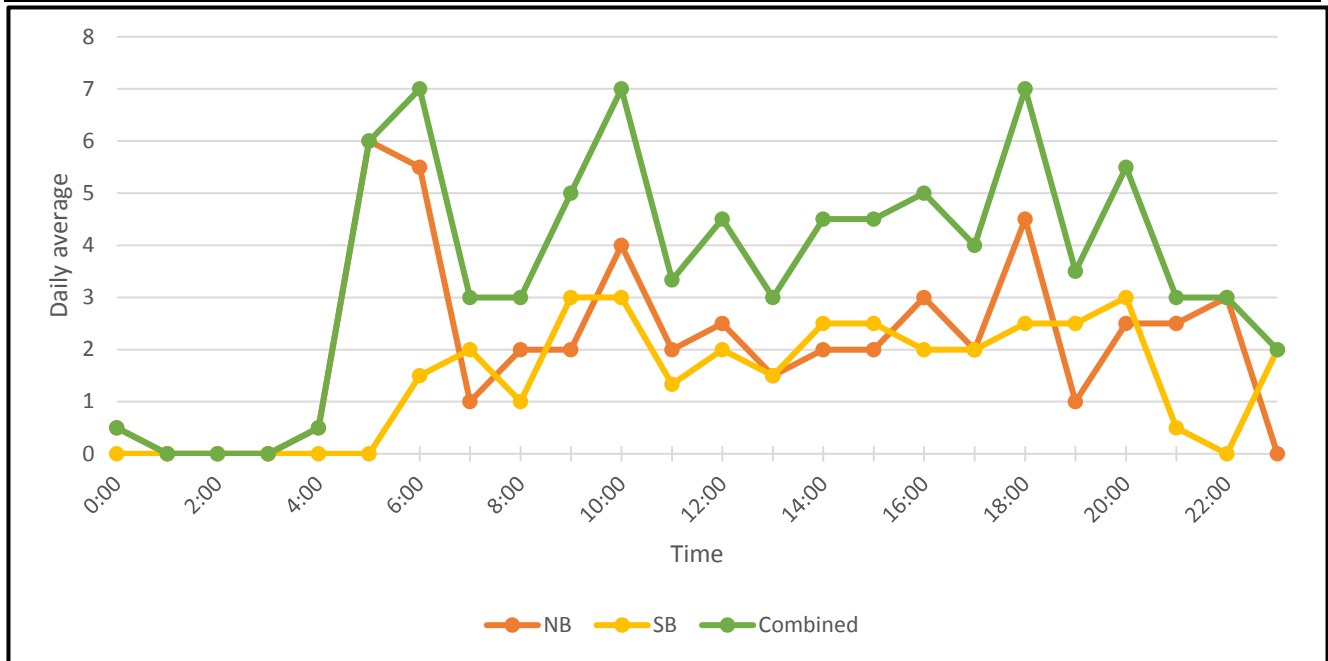


Hennepin County Bicycle Monitoring Program



Site Code: 1701 AM peak: 6:00 7 bikes
Location: CSAH 017 & N of 47th St PM peak: 18:00 7 bikes

Time	Monday 6/8/2015		Tuesday 6/9/2015		Wednesday 6/10/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	1	0	0	0	0.5	0	0.5
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	1	0	0.5	0	0.5
5:00	0	0	2	0	10	0	6	0	6
6:00	0	0	1	0	10	3	5.5	1.5	7
7:00	0	0	2	2	0	2	1	2	3
8:00	0	0	2	1	2	1	2	1	3
9:00	0	0	3	5	1	1	2	3	5
10:00	0	0	5	3	3	3	4	3	7
11:00	1	2	3	1	0	0	2	1.333	3.33
12:00	1	2	4	2	0	0	2.5	2	4.5
13:00	1	1	2	2	0	0	1.5	1.5	3
14:00	0	2	4	3	0	0	2	2.5	4.5
15:00	1	0	3	5	0	0	2	2.5	4.5
16:00	0	1	6	3	0	0	3	2	5
17:00	1	2	3	2	0	0	2	2	4
18:00	3	3	6	2	0	0	4.5	2.5	7
19:00	2	2	0	3	0	0	1	2.5	3.5
20:00	1	3	4	3	0	0	2.5	3	5.5
21:00	2	1	3	0	0	0	2.5	0.5	3
22:00	4	0	2	0	0	0	3	0	3
23:00	0	4	0	0	0	0	0	2	2
Totals	17	23	56	37	27	10	Avg annual daily bicyclists:		
	40		93		37		47		



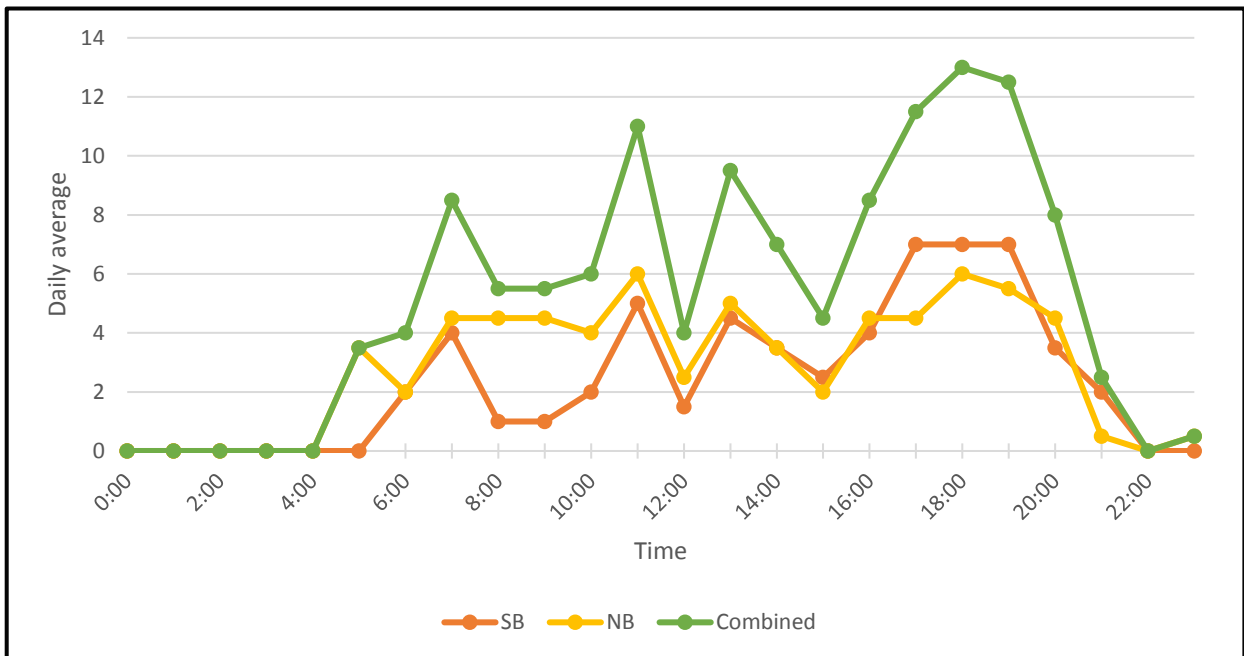


Hennepin County Bicycle Monitoring Program



Site Code: 1902 **AM peak:** 11:00 **11** bikes
Location: CSAH 019 & S of Crabapple Ln **PM peak:** 18:00 **13** bikes

Time	Monday 7/13/2015		Tuesday 7/14/2015		Wednesday 7/15/2015		Daily Average		
	SB	NB	SB	NB	SB	NB	SB	NB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	5	0	2	0	3.5	3.5
6:00	0	0	3	2	1	2	2	2	4
7:00	0	0	4	5	4	4	4	4.5	8.5
8:00	0	0	0	3	2	6	1	4.5	5.5
9:00	0	0	1	5	1	4	1	4.5	5.5
10:00	0	0	4	7	0	1	2	4	6
11:00	6	7	4	5	0	0	5	6	11
12:00	1	2	2	3	0	0	1.5	2.5	4
13:00	1	4	8	6	0	0	4.5	5	9.5
14:00	3	3	4	4	0	0	3.5	3.5	7
15:00	1	0	4	4	0	0	2.5	2	4.5
16:00	2	3	6	6	0	0	4	4.5	8.5
17:00	6	4	8	5	0	0	7	4.5	11.5
18:00	7	5	7	7	0	0	7	6	13
19:00	6	4	8	7	0	0	7	5.5	12.5
20:00	2	5	5	4	0	0	3.5	4.5	8
21:00	2	0	2	1	0	0	2	0.5	2.5
22:00	0	0	0	0	0	0	0	0	0
23:00	0	0	0	1	0	0	0	0.5	0.5
Totals	37	37	70	80	8	19	Avg annual daily bicyclists:		
	74		150		27		65		



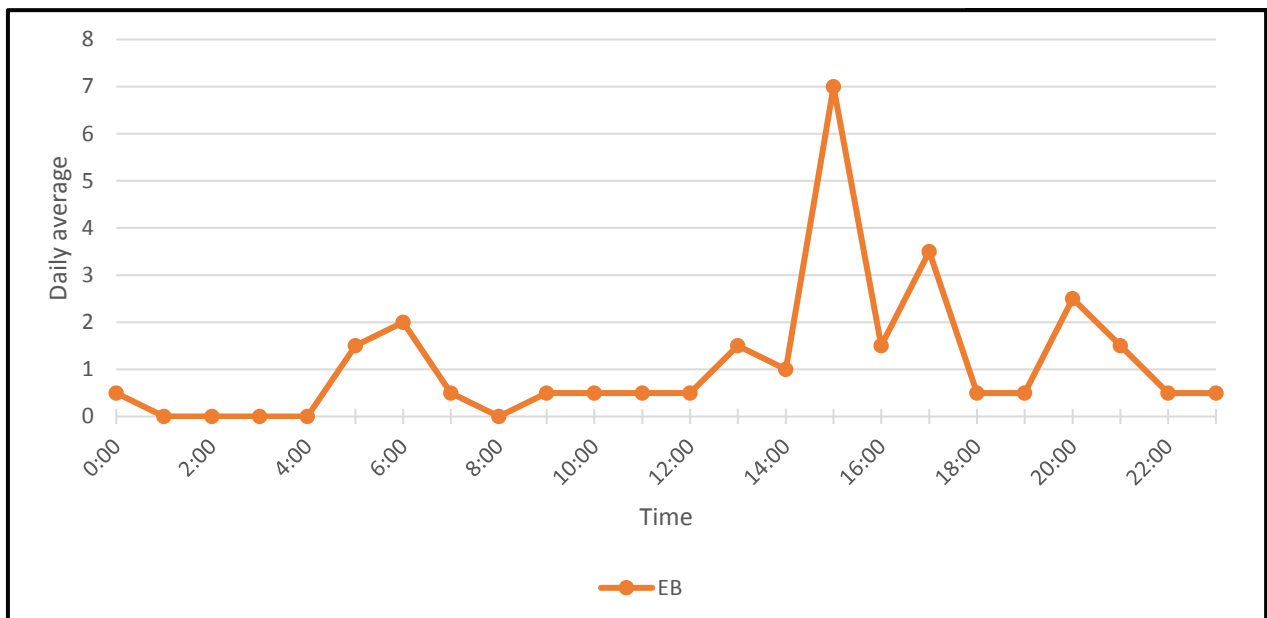


Hennepin County Bicycle Monitoring Program



Site Code: 2101 eastbound AM peak: 6:00 2 bikes
Location: CSAH 021 & E of James Ave PM peak: 15:00 7 bikes

Time	Monday 9/21/2015 EB	Tuesday 9/22/2015 EB	Wednesday 9/23/2015 EB	Daily Average EB
0:00	0	0	1	0.5
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	3	0	1.5
6:00	0	3	1	2
7:00	0	0	1	0.5
8:00	0	0	0	0
9:00	0	1	0	0.5
10:00	0	1	0	0.5
11:00	0	1	0	0.5
12:00	1	0	0	0.5
13:00	3	0	0	1.5
14:00	2	0	0	1
15:00	6	8	0	7
16:00	2	1	0	1.5
17:00	3	4	0	3.5
18:00	1	0	0	0.5
19:00	0	1	0	0.5
20:00	4	1	0	2.5
21:00	1	2	0	1.5
22:00	0	1	0	0.5
23:00	0	1	0	0.5
Totals	23 23	28 28	3 3	Avg annual daily bicyclists: 47



Note: The AADB of 47 is the total for both directions.

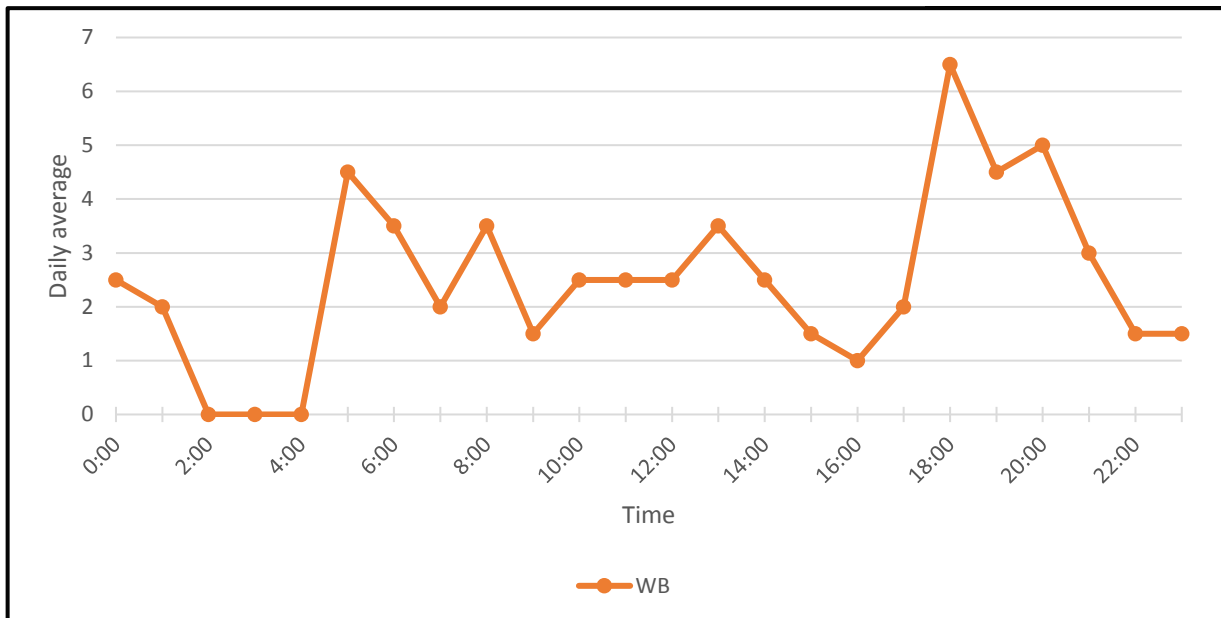


Hennepin County Bicycle Monitoring Program



Site Code:	2101 westbound	AM peak:	5:00	4.5 bikes
Location:	CSAH 021 & W of Newton Ave	PM peak:	18:00	6.5 bikes

Time	Tuesday 6/23/2015 WB	Wednesday 6/24/2015 WB	Thursday 6/25/2015 WB	Daily Average WB
0:00	0	4	1	2.5
1:00	0	0	4	2
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	3	6	4.5
6:00	0	4	3	3.5
7:00	0	3	1	2
8:00	0	4	3	3.5
9:00	0	1	2	1.5
10:00	0	1	4	2.5
11:00	2	3	0	2.5
12:00	4	1	0	2.5
13:00	4	3	0	3.5
14:00	3	2	0	2.5
15:00	1	2	0	1.5
16:00	1	1	0	1
17:00	2	2	0	2
18:00	8	5	0	6.5
19:00	4	5	0	4.5
20:00	6	4	0	5
21:00	2	4	0	3
22:00	1	2	0	1.5
23:00	2	1	0	1.5
Totals	40 40	55 55	24 24	Avg annual daily bicyclists: 47



Note: The AADB of 47 is the total for both directions.

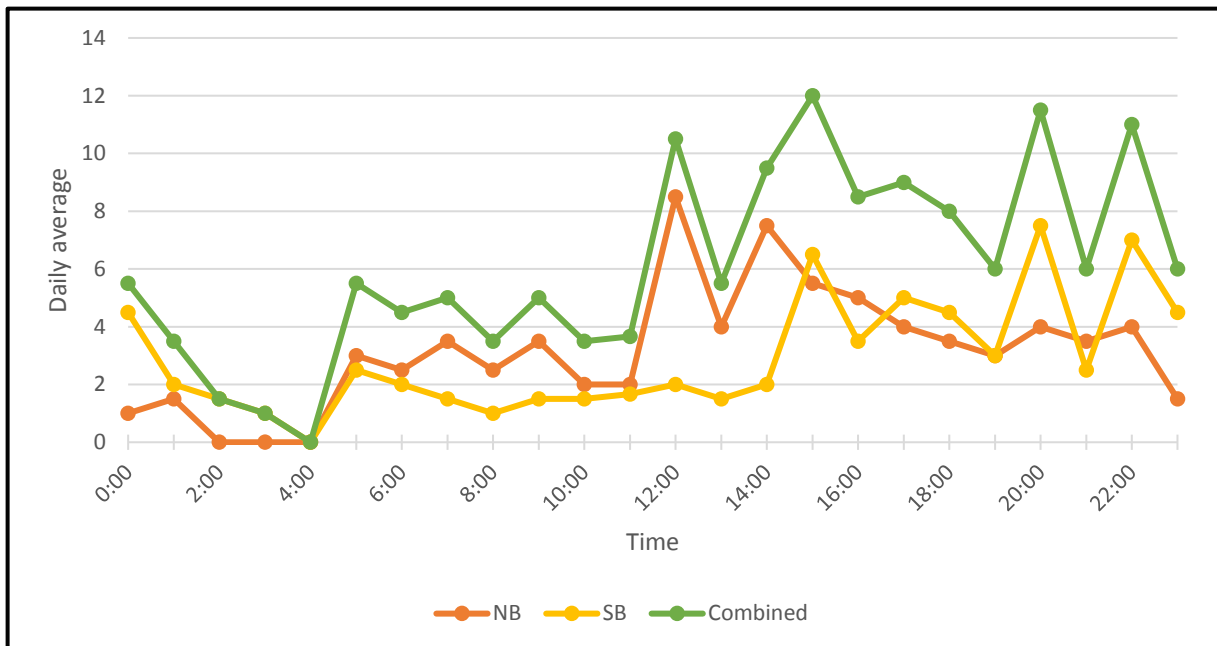


Hennepin County Bicycle Monitoring Program



Site Code: 2202 AM peak: 0:00 **5.5** bikes
Location: CSAH 022 & N of 36th St PM peak: 15:00 **12** bikes

Time	Tuesday 6/23/2015		Wednesday 6/24/2015		Thursday 6/25/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	1	5	1	4	1	4.5	5.5
1:00	0	0	3	3	0	1	1.5	2	3.5
2:00	0	0	0	2	0	1	0	1.5	1.5
3:00	0	0	0	0	0	2	0	1	1
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	3	2	3	3	3	2.5	5.5
6:00	0	0	4	2	1	2	2.5	2	4.5
7:00	0	0	5	1	2	2	3.5	1.5	5
8:00	0	0	3	2	2	0	2.5	1	3.5
9:00	0	0	5	1	2	2	3.5	1.5	5
10:00	0	0	2	2	2	1	2	1.5	3.5
11:00	2	3	2	1	0	0	2	1.667	3.67
12:00	5	0	12	4	0	0	8.5	2	10.5
13:00	5	1	3	2	0	0	4	1.5	5.5
14:00	9	3	6	1	0	0	7.5	2	9.5
15:00	7	6	4	7	0	0	5.5	6.5	12
16:00	8	2	2	5	0	0	5	3.5	8.5
17:00	5	6	3	4	0	0	4	5	9
18:00	3	4	4	5	0	0	3.5	4.5	8
19:00	4	2	2	4	0	0	3	3	6
20:00	6	7	2	8	0	0	4	7.5	11.5
21:00	4	2	3	3	0	0	3.5	2.5	6
22:00	5	5	3	9	0	0	4	7	11
23:00	2	7	1	2	0	0	1.5	4.5	6
Totals	65	48	73	75	13	18	Avg annual daily bicyclists:		
	113		148		31		69		



Note: Actual count likely to be higher. This is a minimum.

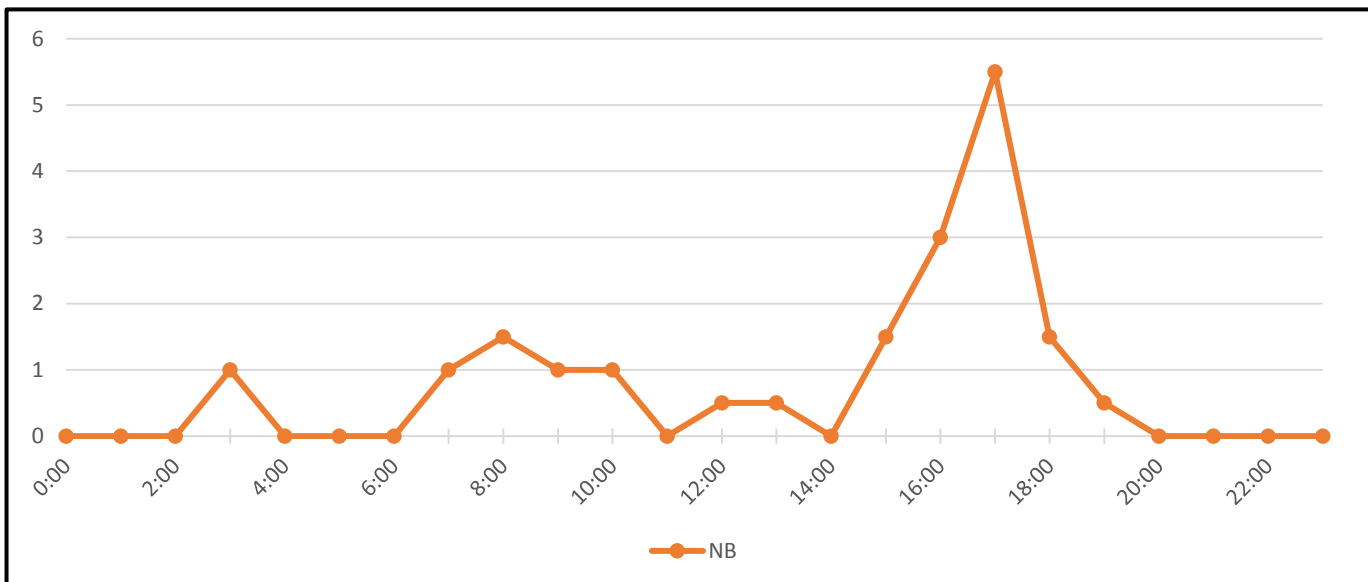


Hennepin County Bicycle Monitoring Program



Site Code: 3202 **AM peak:** 8:00 1.5 bikes
Location: CSAH 032 & N of 91st Ave **PM peak:** 17:00 5.5 bikes

Time	Wednesday 9/9/2015 NB	Thursday 9/10/2015 NB	Friday 9/11/2015 NB	Daily Average NB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	2	1
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	0	0	0
7:00	0	1	1	1
8:00	0	2	1	1.5
9:00	0	0	2	1
10:00	0	0	2	1
11:00	0	0	0	0
12:00	1	0	0	0.5
13:00	0	1	0	0.5
14:00	0	0	0	0
15:00	2	1	0	1.5
16:00	2	4	0	3
17:00	6	5	0	5.5
18:00	3	0	0	1.5
19:00	1	0	0	0.5
20:00	0	0	0	0
21:00	0	0	0	0
22:00	0	0	0	0
23:00	0	0	0	0
Totals	15	14	8	Avg annual daily bicyclists: 28



Note: No southbound data available so multiplied northbound by 2 for AADB.

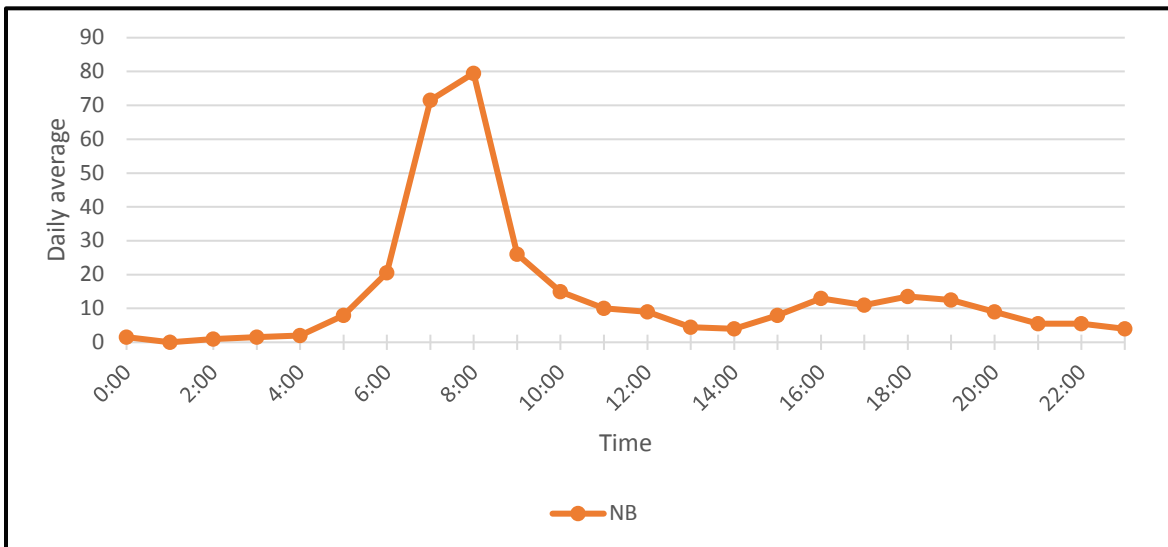


Hennepin County Bicycle Monitoring Program



Site Code: 3301 AM peak: 8:00 **79.5** bikes
Location: CSAH 033 & S of 27th St PM peak: 18:00 **13.5** bikes

Time	Monday 5/11/2015 NB	Tuesday 5/12/2015 NB	Wednesday 5/13/2015 NB	Daily Average NB
0:00	0	1	2	1.5
1:00	0	0	0	0
2:00	0	1	1	1
3:00	0	1	2	1.5
4:00	0	2	2	2
5:00	0	7	9	8
6:00	0	17	24	20.5
7:00	0	64	79	71.5
8:00	0	72	87	79.5
9:00	0	20	32	26
10:00	0	12	18	15
11:00	10	10	0	10
12:00	10	8	0	9
13:00	5	4	0	4.5
14:00	2	6	0	4
15:00	8	8	0	8
16:00	7	19	0	13
17:00	5	17	0	11
18:00	14	13	0	13.5
19:00	7	18	0	12.5
20:00	4	14	0	9
21:00	5	6	0	5.5
22:00	3	8	0	5.5
23:00	3	5	0	4
Totals	83	333	256	Avg annual daily bicyclists: 363



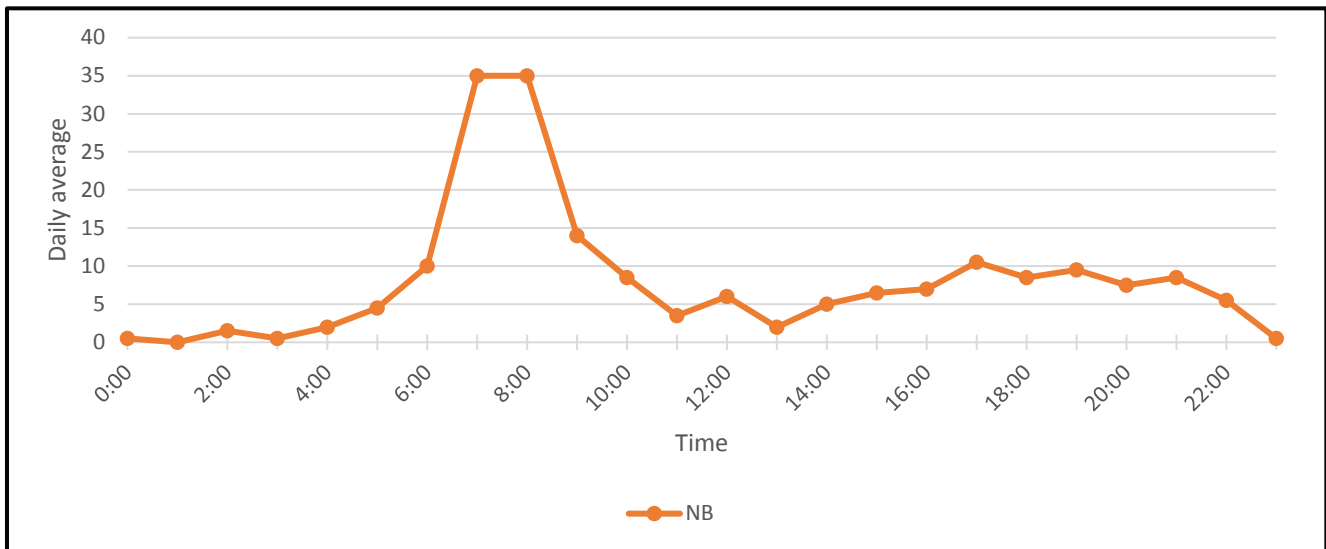


Hennepin County Bicycle Monitoring Program



Site Code: 3302 AM peak: 7:00 **35** bikes
Location: CSAH 033 & N of 38th St PM peak: 17:00 **10.5** bikes

Time	Wednesday 5/6/2015	Thursday 5/7/2015	Friday 5/8/2015	Daily Average
	NB	NB	NB	NB
0:00	0	0	1	0.5
1:00	0	0	0	0
2:00	0	1	2	1.5
3:00	0	0	1	0.5
4:00	0	4	0	2
5:00	0	3	6	4.5
6:00	0	7	13	10
7:00	0	28	42	35
8:00	0	23	47	35
9:00	0	12	16	14
10:00	0	5	12	8.5
11:00	4	3	0	3.5
12:00	2	10	0	6
13:00	2	2	0	2
14:00	6	4	0	5
15:00	8	5	0	6.5
16:00	12	2	0	7
17:00	12	9	0	10.5
18:00	12	5	0	8.5
19:00	14	5	0	9.5
20:00	8	7	0	7.5
21:00	8	9	0	8.5
22:00	8	3	0	5.5
23:00	1	0	0	0.5
Totals	97 97	147 147	140 140	Avg annual daily bicyclists: 261



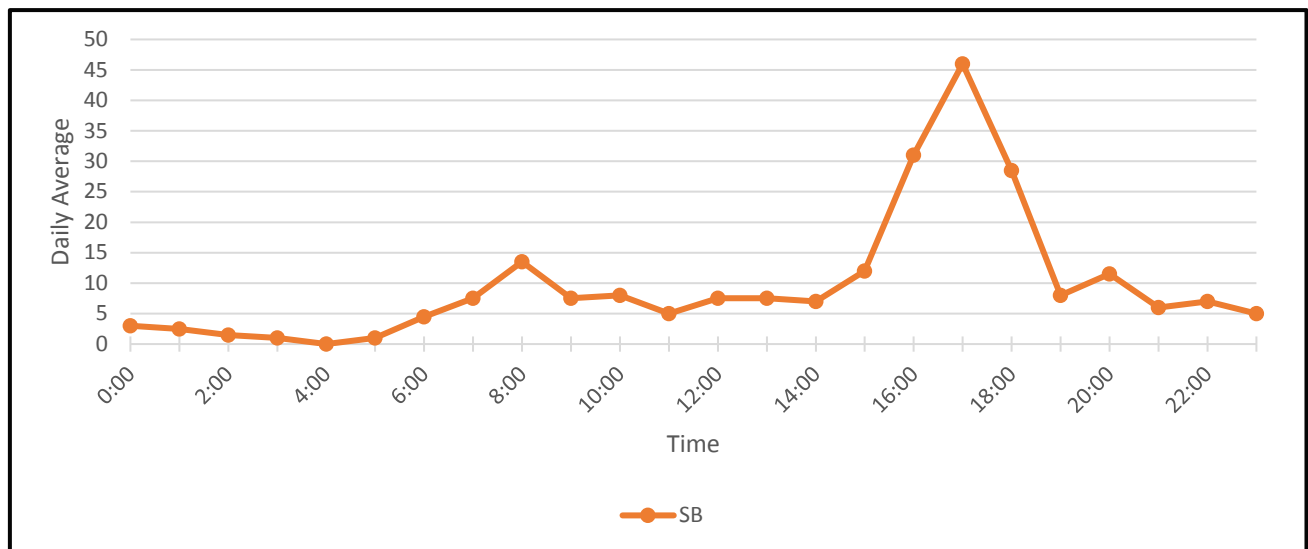


Hennepin County Bicycle Monitoring Program



Site Code: 3501 AM peak: 8:00 **13.5** bikes
Location: CSAH 035 & S of 40th St PM peak: 17:00 **46** bikes

Time	Wednesday 4/15/2015 SB	Thursday 4/16/2015 SB	Friday 4/17/2015 SB	Daily Average SB
0:00	0	4	2	3
1:00	0	1	4	2.5
2:00	0	2	1	1.5
3:00	0	0	2	1
4:00	0	0	0	0
5:00	0	0	2	1
6:00	0	4	5	4.5
7:00	0	5	10	7.5
8:00	0	11	16	13.5
9:00	0	8	7	7.5
10:00	0	5	11	8
11:00	5	5	0	5
12:00	7	8	0	7.5
13:00	7	8	0	7.5
14:00	5	9	0	7
15:00	11	13	0	12
16:00	31	31	0	31
17:00	51	41	0	46
18:00	28	29	0	28.5
19:00	8	8	0	8
20:00	11	12	0	11.5
21:00	6	6	0	6
22:00	10	4	0	7
23:00	6	4	0	5
Totals	186 186	218 218	60 60	Avg annual daily bicyclists: 198



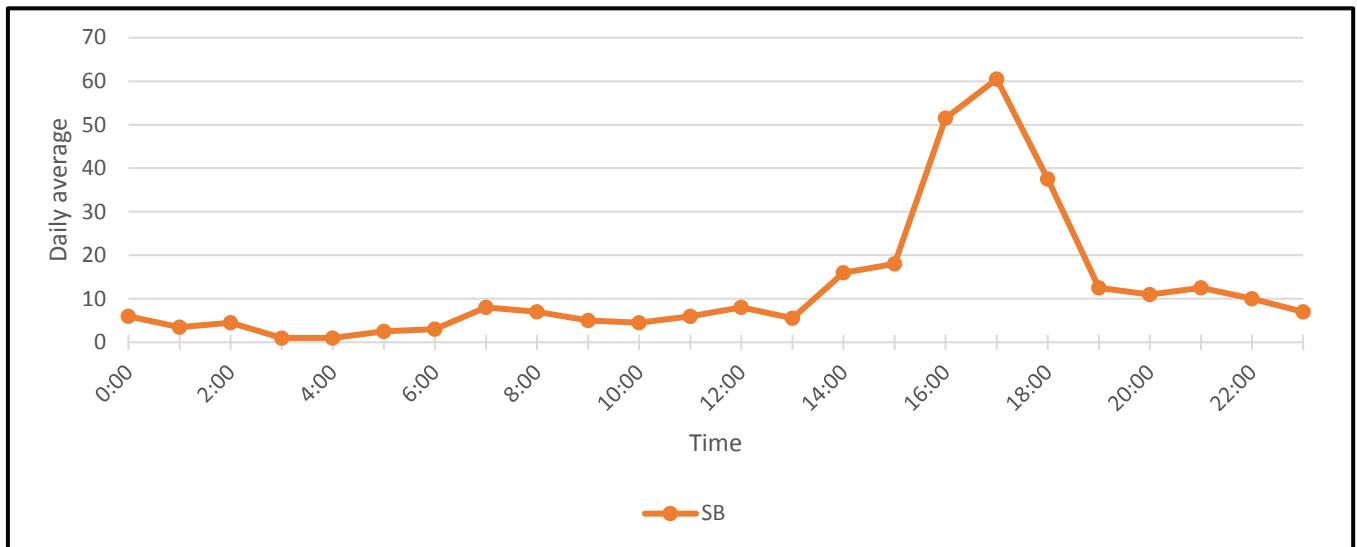


Hennepin County Bicycle Monitoring Program



Site Code: 3502 AM peak: 7:00 **8 bikes**
Location: CSAH 035 & S of 28th St PM peak: 17:00 **60.5 bikes**

Time	Monday 5/18/2015 SB	Tuesday 5/19/2015 SB	Wednesday 5/20/2015 SB	Daily Average SB
0:00	0	0	12	6
1:00	0	4	3	3.5
2:00	0	4	5	4.5
3:00	0	2	0	1
4:00	0	0	2	1
5:00	0	2	3	2.5
6:00	0	2	4	3
7:00	0	7	9	8
8:00	0	6	8	7
9:00	0	2	8	5
10:00	0	1	8	4.5
11:00	7	5	0	6
12:00	5	11	0	8
13:00	6	5	0	5.5
14:00	8	24	0	16
15:00	14	22	0	18
16:00	45	58	0	51.5
17:00	49	72	0	60.5
18:00	32	43	0	37.5
19:00	7	18	0	12.5
20:00	10	12	0	11
21:00	7	18	0	12.5
22:00	13	7	0	10
23:00	5	9	0	7
Totals	208 208	334 334	62 62	Avg annual daily bicyclists: 364



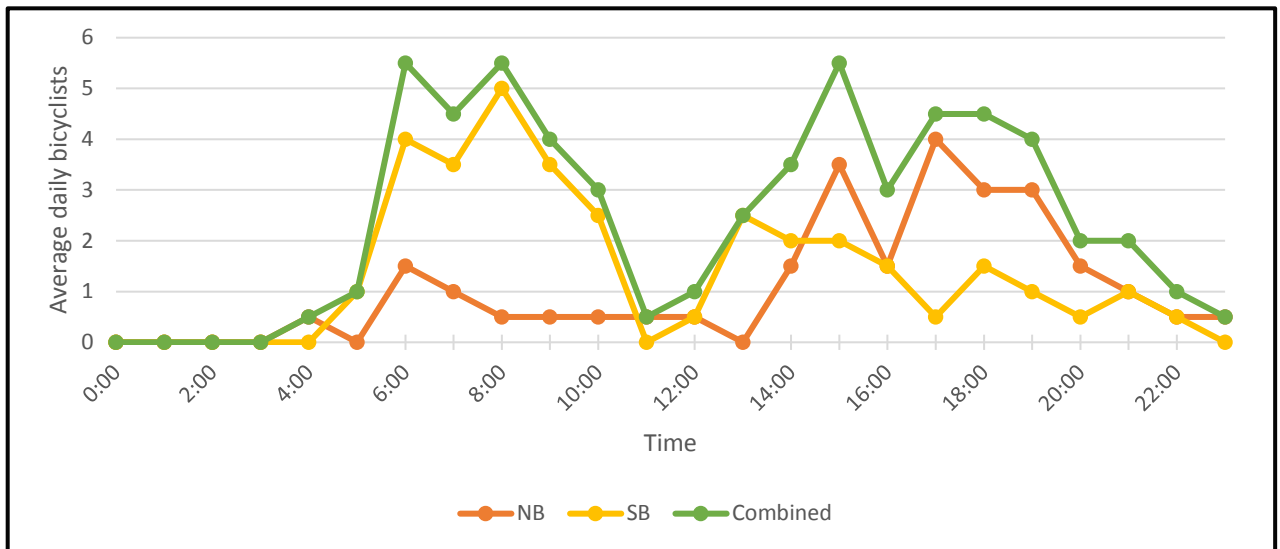


Hennepin County Bicycle Monitoring Program



Site Code: 3503 AM peak: 6:00 **5.5** bikes
Location: CSAH 035 & N of 74th St PM peak: 15:00 **5.5** bikes

Time	Monday 5/18/2015		Tuesday 5/19/2015		Wednesday 5/20/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	1	0	0	0	0.5	0	0.5
5:00	0	0	0	0	0	2	0	1	1
6:00	0	0	2	4	1	4	1.5	4	5.5
7:00	0	0	2	3	0	4	1	3.5	4.5
8:00	0	0	0	4	1	6	0.5	5	5.5
9:00	0	0	0	4	1	3	0.5	3.5	4
10:00	0	0	1	3	0	2	0.5	2.5	3
11:00	0	0	1	0	0	0	0.5	0	0.5
12:00	0	0	0	1	1	0	0.5	0.5	1
13:00	0	0	0	5	0	0	0	2.5	2.5
14:00	1	0	2	4	0	0	1.5	2	3.5
15:00	1	2	6	2	0	0	3.5	2	5.5
16:00	0	1	3	2	0	0	1.5	1.5	3
17:00	4	0	4	1	0	0	4	0.5	4.5
18:00	1	2	5	1	0	0	3	1.5	4.5
19:00	3	0	3	2	0	0	3	1	4
20:00	0	0	3	1	0	0	1.5	0.5	2
21:00	1	0	1	2	0	0	1	1	2
22:00	1	0	0	1	0	0	0.5	0.5	1
23:00	0	0	1	0	0	0	0.5	0	0.5
Totals	12	5	35	40	4	21	Avg annual daily bicyclists: 66		
	17		75		25				



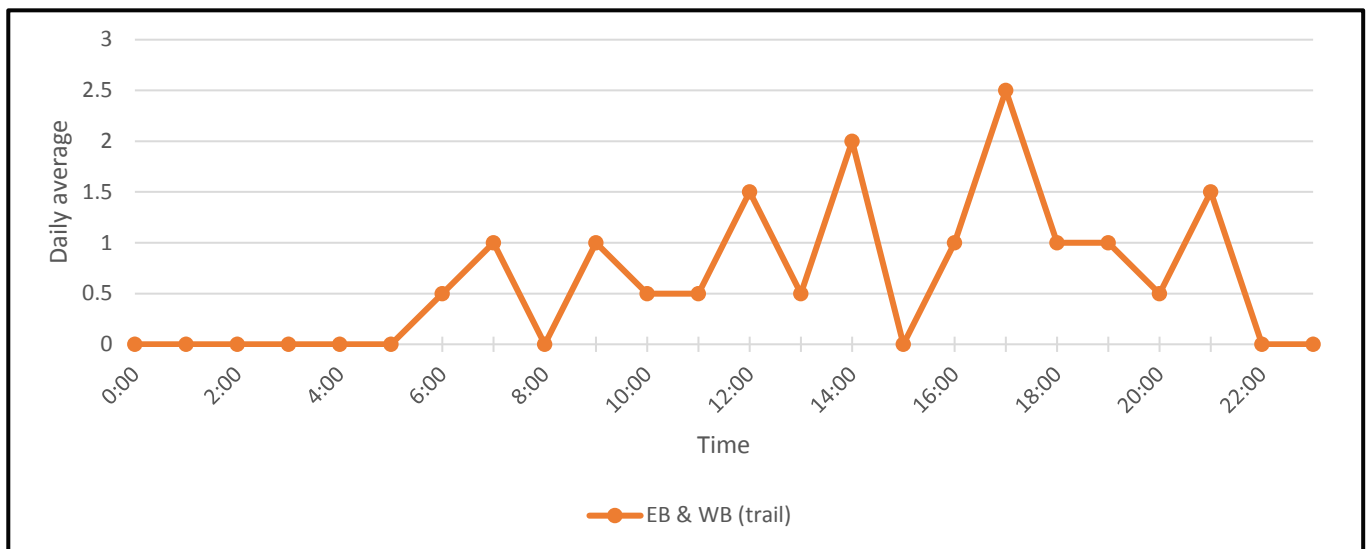


Hennepin County Bicycle Monitoring Program



Site Code: 3901 AM peak: 7:00 1 bikes
Location: CSAH 039 & W of Anagram Drive EB & WB (trail) PM peak: 17:00 2.5 bikes

Time	Monday 8/31/2015 EB & WB (trail)	Tuesday 9/1/2015 EB & WB (trail)	Wednesday 9/2/2015 EB & WB (trail)	Daily Average EB & WB (trail)
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	1	0	0.5
7:00	0	2	0	1
8:00	0	0	0	0
9:00	0	0	2	1
10:00	0	1	0	0.5
11:00	0	1	0	0.5
12:00	1	2	0	1.5
13:00	1	0	0	0.5
14:00	3	1	0	2
15:00	0	0	0	0
16:00	0	2	0	1
17:00	2	3	0	2.5
18:00	0	2	0	1
19:00	1	1	0	1
20:00	0	1	0	0.5
21:00	1	2	0	1.5
22:00	0	0	0	0
23:00	0	0	0	0
Totals	9	19	2	Avg annual daily bicyclists: 17
	9	19	2	



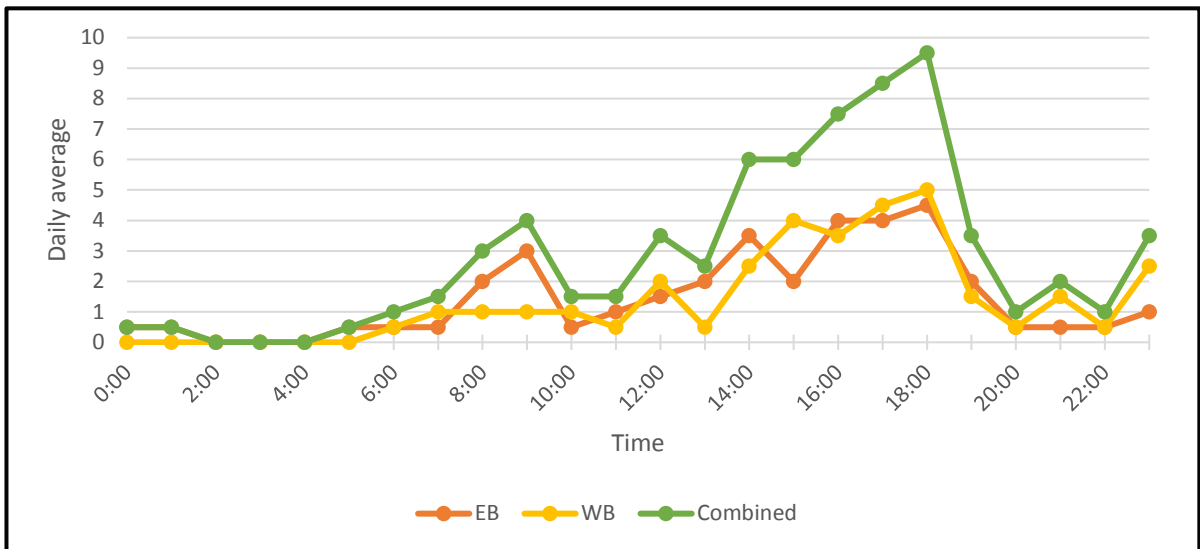


Hennepin County Bicycle Monitoring Program



Site Code: 4201 AM peak: 9:00 **4** bikes
Location: CSAH 042 & W of 22nd St PM peak: 18:00 **9.5** bikes

Time	Monday 3/30/2015		Tuesday 3/31/2015		Wednesday 4/1/2015		Daily Average		
	EB	WB	EB	WB	EB	WB	EB	WB	Combined
0:00	0	0	0	0	1	0	0.5	0	0.5
1:00	0	0	0	0	1	0	0.5	0	0.5
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	1	0	0.5	0	0.5
6:00	0	0	1	0	0	1	0.5	0.5	1
7:00	0	0	1	1	0	1	0.5	1	1.5
8:00	0	0	1	1	3	1	2	1	3
9:00	0	0	4	0	2	2	3	1	4
10:00	0	0	0	1	1	1	0.5	1	1.5
11:00	0	1	2	0	0	0	1	0.5	1.5
12:00	0	0	3	4	0	0	1.5	2	3.5
13:00	0	0	4	1	0	0	2	0.5	2.5
14:00	2	2	5	3	0	0	3.5	2.5	6
15:00	1	1	3	7	0	0	2	4	6
16:00	1	2	7	5	0	0	4	3.5	7.5
17:00	2	4	6	5	0	0	4	4.5	8.5
18:00	2	5	7	5	0	0	4.5	5	9.5
19:00	2	1	2	2	0	0	2	1.5	3.5
20:00	0	0	1	1	0	0	0.5	0.5	1
21:00	0	0	1	3	0	0	0.5	1.5	2
22:00	0	1	1	0	0	0	0.5	0.5	1
23:00	0	2	2	3	0	0	1	2.5	3.5
Totals	10	19	51	42	9	6	Avg annual daily bicyclists:		
	29		93		15		73		



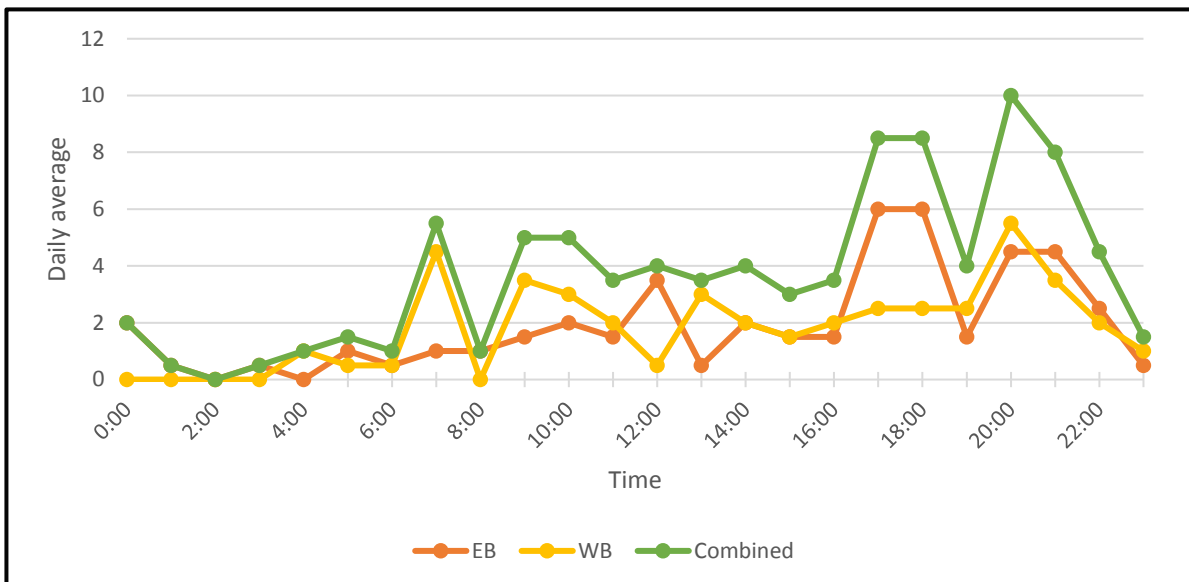


Hennepin County Bicycle Monitoring Program



Site Code: 4601 AM peak: 7:00 **5.5** bikes
Location: 4601 - CSAH 046 & E of Pleasant PM peak: 20:00 **10** bikes

Time	Wednesday 6/17/2015		Thursday 6/18/2015		Friday 6/19/2015		Daily Average		
	EB	WB	EB	WB	EB	WB	EB	WB	Combined
0:00	0	0	3	0	1	0	2	0	2
1:00	0	0	1	0	0	0	0.5	0	0.5
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	1	0	0.5	0	0.5
4:00	0	0	0	1	0	1	0	1	1
5:00	0	0	1	1	1	0	1	0.5	1.5
6:00	0	0	0	1	1	0	0.5	0.5	1
7:00	0	0	0	3	2	6	1	4.5	5.5
8:00	0	0	1	0	1	0	1	0	1
9:00	0	0	1	5	2	2	1.5	3.5	5
10:00	0	0	3	2	1	4	2	3	5
11:00	3	1	0	3	0	0	1.5	2	3.5
12:00	5	0	2	1	0	0	3.5	0.5	4
13:00	1	2	0	4	0	0	0.5	3	3.5
14:00	0	0	4	4	0	0	2	2	4
15:00	1	0	2	3	0	0	1.5	1.5	3
16:00	1	1	2	3	0	0	1.5	2	3.5
17:00	4	1	8	4	0	0	6	2.5	8.5
18:00	3	3	9	2	0	0	6	2.5	8.5
19:00	1	3	2	2	0	0	1.5	2.5	4
20:00	6	1	3	10	0	0	4.5	5.5	10
21:00	5	4	4	3	0	0	4.5	3.5	8
22:00	5	0	0	4	0	0	2.5	2	4.5
23:00	1	2	0	0	0	0	0.5	1	1.5
Totals	36	18	46	56	10	13	Avg annual daily bicyclists:		
	54		102		23		55		



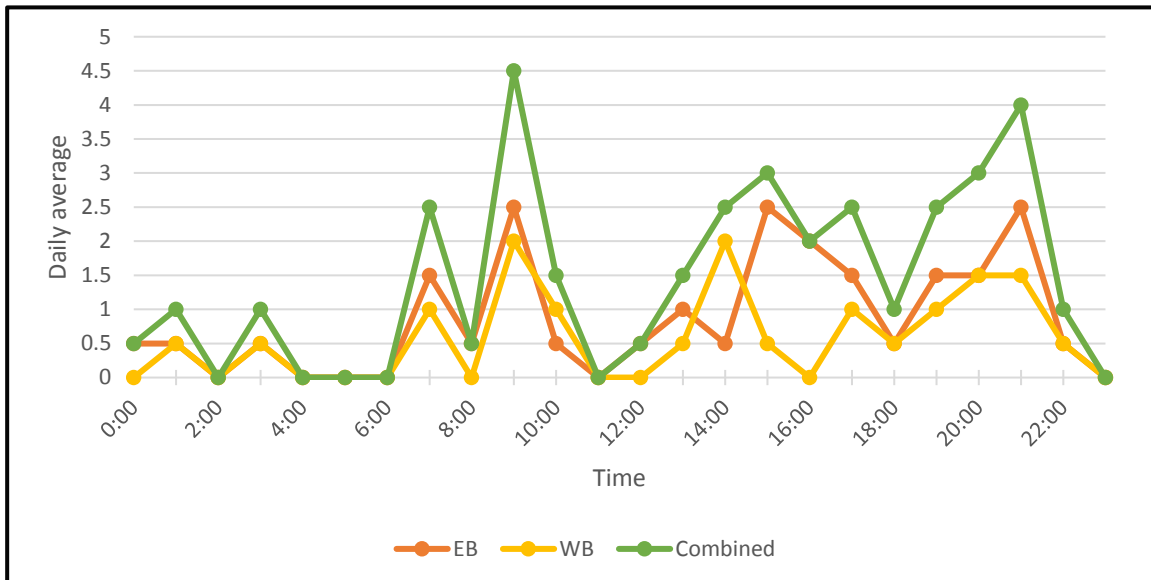


Hennepin County Bicycle Monitoring Program



Site Code: 4602 AM peak: 9:00 **4.5** bikes
Location: CSAH 046 & E of 17th Ave PM peak: 21:00 **4** bikes

Time	Wednesday 6/17/2015		Thursday 6/18/2015		Friday 6/19/2015		Daily Average		
	EB	WB	EB	WB	EB	WB	EB	WB	Combined
0:00	0	0	0	0	1	0	0.5	0	0.5
1:00	0	0	1	1	0	0	0.5	0.5	1
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	1	1	0	0	0.5	0.5	1
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0
7:00	0	0	2	1	1	1	1.5	1	2.5
8:00	0	0	1	0	0	0	0.5	0	0.5
9:00	0	0	3	2	2	2	2.5	2	4.5
10:00	0	0	0	1	1	1	0.5	1	1.5
11:00	0	0	0	0	0	0	0	0	0
12:00	0	0	1	0	0	0	0.5	0	0.5
13:00	0	1	2	0	0	0	1	0.5	1.5
14:00	0	0	1	4	0	0	0.5	2	2.5
15:00	3	1	2	0	0	0	2.5	0.5	3
16:00	0	0	4	0	0	0	2	0	2
17:00	1	0	2	2	0	0	1.5	1	2.5
18:00	0	1	1	0	0	0	0.5	0.5	1
19:00	1	0	2	2	0	0	1.5	1	2.5
20:00	3	3	0	0	0	0	1.5	1.5	3
21:00	0	1	5	2	0	0	2.5	1.5	4
22:00	1	1	0	0	0	0	0.5	0.5	1
23:00	0	0	0	0	0	0	0	0	0
Totals	9	8	28	16	5	4	Avg annual daily bicyclists:		
	17		44		9		21		



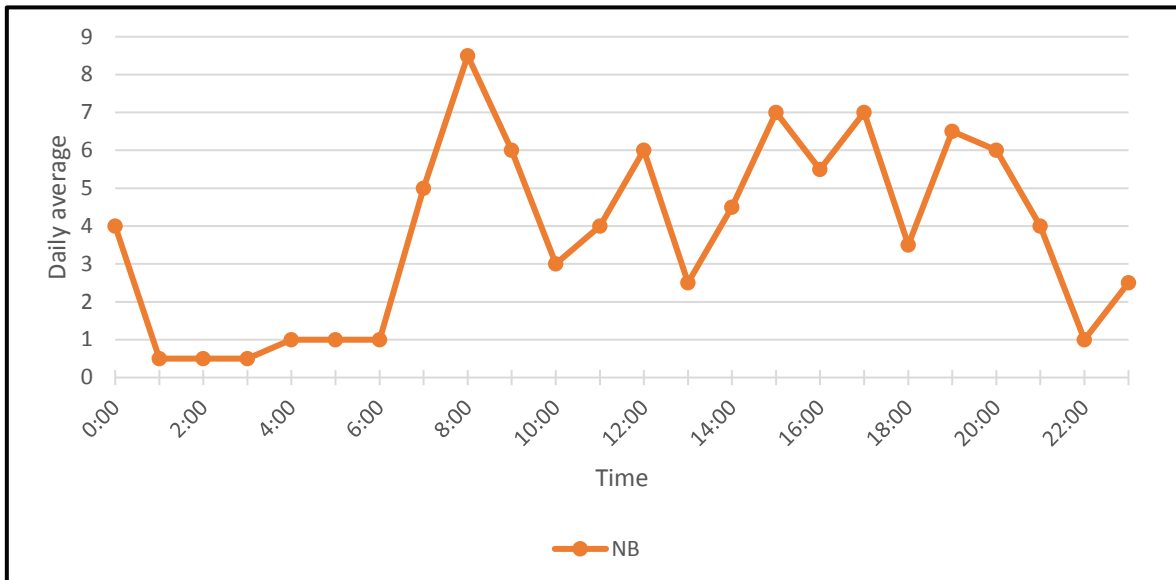


Hennepin County Bicycle Monitoring Program



Site Code: 4802 Northbound AM peak: 8:00 **8.5** bikes
Location: CSAH 048 & S of Midtown Greenway PM peak: 15:00 **7** bikes

Time	Wednesday 8/12/2015 NB	Thursday 8/13/2015 NB	Friday 8/14/2015 NB	Daily Average NB
0:00	0	6	2	4
1:00	0	1	0	0.5
2:00	0	1	0	0.5
3:00	0	0	1	0.5
4:00	0	1	1	1
5:00	0	1	1	1
6:00	0	0	2	1
7:00	0	5	5	5
8:00	0	6	11	8.5
9:00	0	6	6	6
10:00	0	2	4	3
11:00	3	5	0	4
12:00	3	9	0	6
13:00	3	2	0	2.5
14:00	7	2	0	4.5
15:00	4	10	0	7
16:00	6	5	0	5.5
17:00	6	8	0	7
18:00	5	2	0	3.5
19:00	9	4	0	6.5
20:00	6	6	0	6
21:00	4	4	0	4
22:00	0	2	0	1
23:00	1	4	0	2.5
Totals	57	92	33	Avg annual daily bicyclists: 99



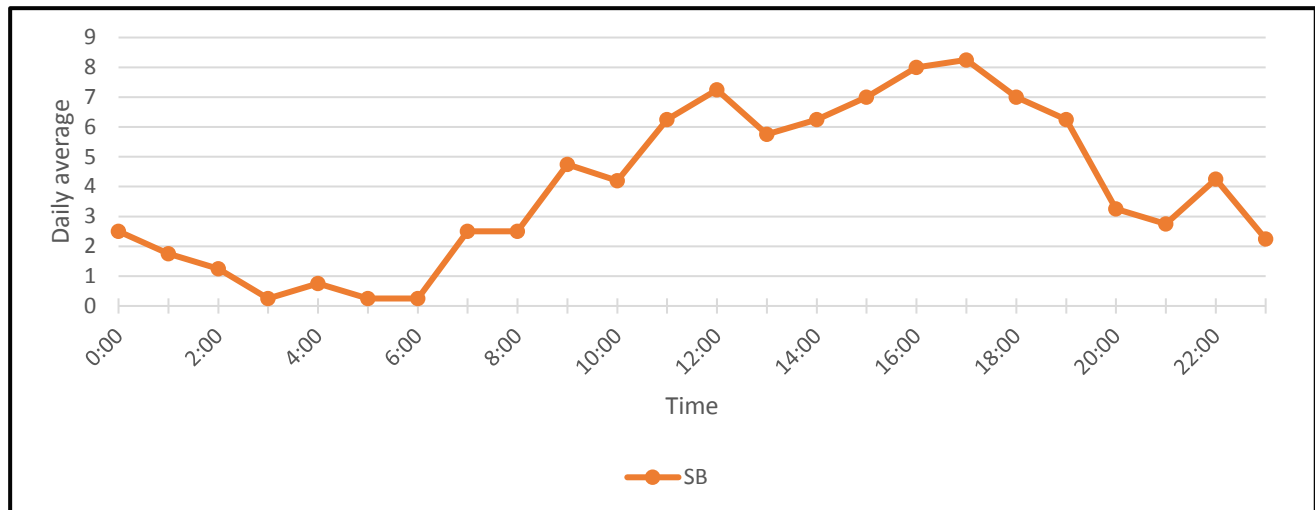


Hennepin County Bicycle Monitoring Program



Site Code: 4802 Southbound **AM Peak Hour Starts At:** 11:00 **6.25** bikes
Location: CSAH 158 & E of Vernon Ln **PM Peak Hour Starts At:** 17:00 **8.25** bikes

Time	Friday 7/17/2015 SB	Saturday 7/18/2015 SB	Sunday 7/19/2015 SB	Monday 7/20/2015 SB	Tuesday 7/21/2015 SB	Daily Average SB
0:00	0	2	6	0	2	2.5
1:00	0	1	1	2	3	1.75
2:00	0	0	3	1	1	1.25
3:00	0	0	1	0	0	0.25
4:00	0	0	1	0	2	0.75
5:00	0	0	0	0	1	0.25
6:00	0	0	0	1	0	0.25
7:00	0	3	1	3	3	2.5
8:00	0	1	1	5	3	2.5
9:00	0	6	2	6	5	4.75
10:00	8	6	4	2	1	4.2
11:00	8	8	7	2	0	6.25
12:00	4	12	9	4	0	7.25
13:00	3	6	7	7	0	5.75
14:00	7	5	5	8	0	6.25
15:00	9	7	4	8	0	7
16:00	11	7	9	5	0	8
17:00	4	10	8	11	0	8.25
18:00	12	6	1	9	0	7
19:00	3	8	8	6	0	6.25
20:00	2	8	3	0	0	3.25
21:00	5	0	5	1	0	2.75
22:00	6	5	1	5	0	4.25
23:00	0	3	4	2	0	2.25
Totals	82	104	91	88	21	Avg annual daily bicyclists: 99



Note: Data was collected at this site from 7/17 through 7/21 but only 7/19 through 7/21 was used for AADB calculation. AADB of 99 is the total for both northbound and southbound.

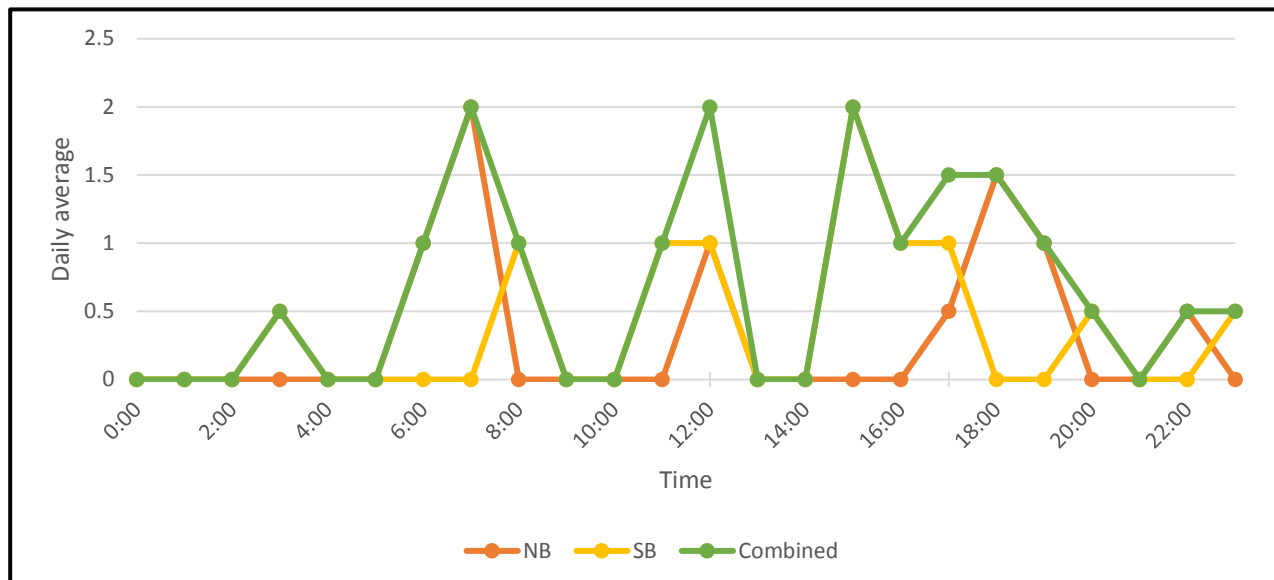


Hennepin County Bicycle Monitoring Program



Site Code: 5201 AM peak: 7:00 2 bikes
Location: CSAH 052 & N of 90th St PM peak: 12:00 2 bikes

Time	Tuesday 6/2/2015		Wednesday 6/3/2015		Thursday 6/4/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	1	0	0.5	0.5
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0
6:00	0	0	2	0	0	0	1	0	1
7:00	0	0	2	0	2	0	2	0	2
8:00	0	0	0	2	0	0	0	1	1
9:00	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0
11:00	0	2	0	0	0	0	0	1	1
12:00	0	2	2	0	0	0	1	1	2
13:00	0	0	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0	0	0
15:00	0	4	0	0	0	0	0	2	2
16:00	0	0	0	2	0	0	0	1	1
17:00	0	2	1	0	0	0	0.5	1	1.5
18:00	3	0	0	0	0	0	1.5	0	1.5
19:00	2	0	0	0	0	0	1	0	1
20:00	0	1	0	0	0	0	0	0.5	0.5
21:00	0	0	0	0	0	0	0	0	0
22:00	1	0	0	0	0	0	0.5	0	0.5
23:00	0	1	0	0	0	0	0	0.5	0.5
Totals	6	12	7	4	2	1	Avg annual daily bicyclists:		
	18		11		3		13		



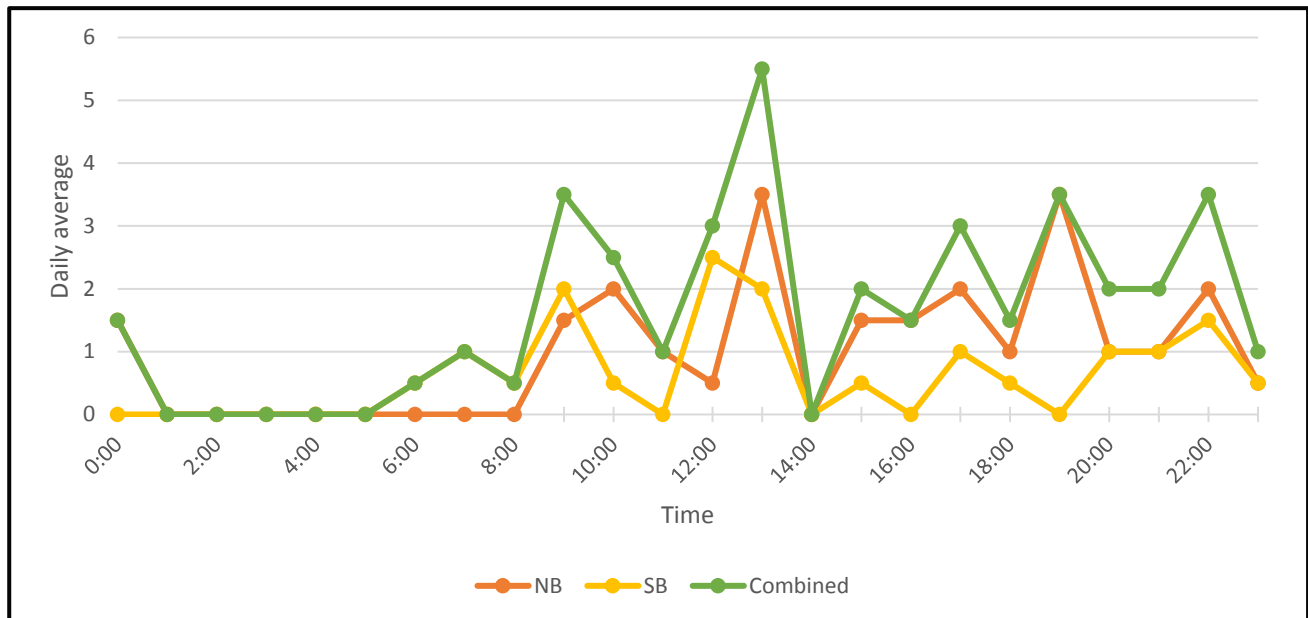


Hennepin County Bicycle Monitoring Program



Site Code: 5202 AM peak: 9:00 **3.5** bikes
Location: CSAH 052 & N of 76th St PM peak: 13:00 **5.5** bikes

Time	Monday 6/8/2015		Tuesday 6/9/2015		Wednesday 6/10/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	2	0	1	0	1.5	0	1.5
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0
6:00	0	0	0	1	0	0	0	0.5	0.5
7:00	0	0	0	1	0	1	0	1	1
8:00	0	0	0	0	0	1	0	0.5	0.5
9:00	0	0	0	0	3	4	1.5	2	3.5
10:00	0	0	2	1	2	0	2	0.5	2.5
11:00	2	0	0	0	0	0	1	0	1
12:00	1	4	0	1	0	0	0.5	2.5	3
13:00	5	4	2	0	0	0	3.5	2	5.5
14:00	0	0	0	0	0	0	0	0	0
15:00	3	1	0	0	0	0	1.5	0.5	2
16:00	2	0	1	0	0	0	1.5	0	1.5
17:00	3	2	1	0	0	0	2	1	3
18:00	2	1	0	0	0	0	1	0.5	1.5
19:00	2	0	5	0	0	0	3.5	0	3.5
20:00	1	1	1	1	0	0	1	1	2
21:00	1	2	1	0	0	0	1	1	2
22:00	2	1	2	2	0	0	2	1.5	3.5
23:00	0	1	1	0	0	0	0.5	0.5	1
Totals	24	17	18	7	6	6	Avg annual daily bicyclists:		
	41		25		12		21		



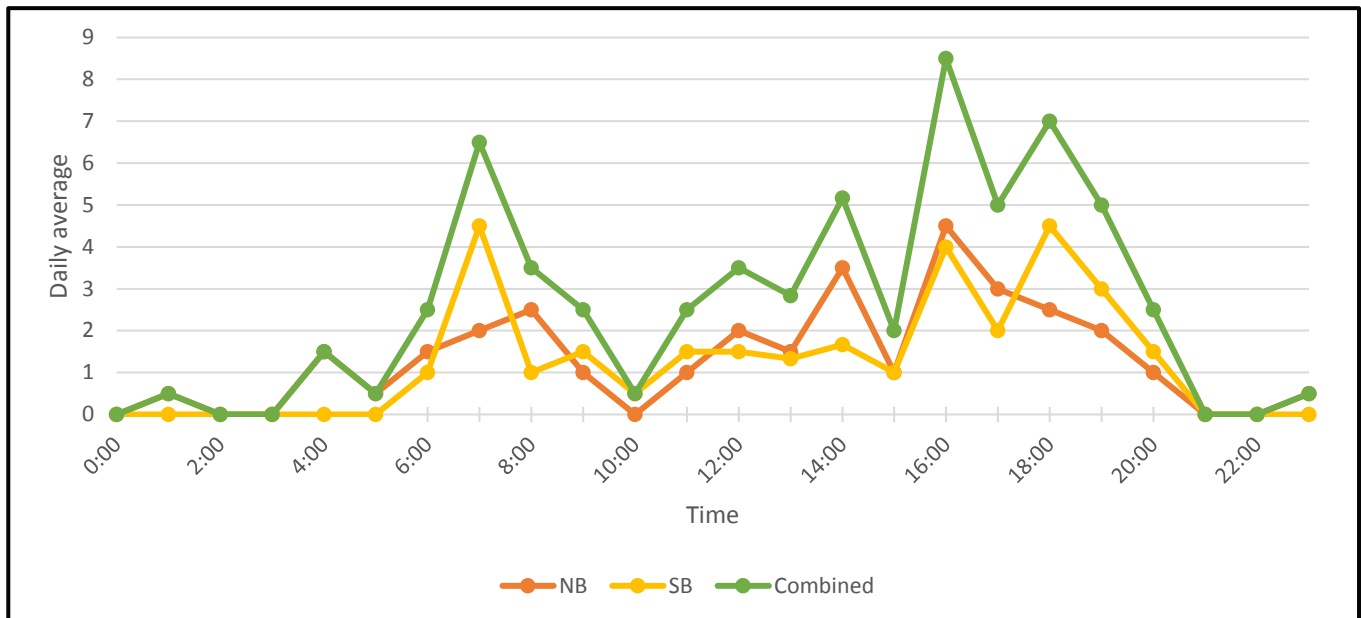


Hennepin County Bicycle Monitoring Program



Site Code: 6001 AM peak: 7:00 **6.5** bikes
Location: CSAH 060 & N of Excelsior Blvd PM peak: 16:00 **8.5** bikes

Time	Wednesday 8/12/2015		Thursday 8/13/2015		Friday 8/14/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	1	0	0	0	0.5	0	0.5
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	3	0	1.5	0	1.5
5:00	0	0	0	0	1	0	0.5	0	0.5
6:00	0	0	0	0	3	2	1.5	1	2.5
7:00	0	0	3	4	1	5	2	4.5	6.5
8:00	0	0	2	1	3	1	2.5	1	3.5
9:00	0	0	2	0	0	3	1	1.5	2.5
10:00	0	0	0	1	0	0	0	0.5	0.5
11:00	0	0	2	0	0	3	1	1.5	2.5
12:00	0	0	3	2	1	1	2	1.5	3.5
13:00	0	0	2	1	1	2	1.5	1.333	2.83
14:00	1	2	6	3	0	0	3.5	1.667	5.17
15:00	0	0	2	2	0	0	1	1	2
16:00	4	5	5	3	0	0	4.5	4	8.5
17:00	5	3	1	1	0	0	3	2	5
18:00	4	4	1	5	0	0	2.5	4.5	7
19:00	2	2	2	4	0	0	2	3	5
20:00	2	2	0	1	0	0	1	1.5	2.5
21:00	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0
23:00	1	0	0	0	0	0	0.5	0	0.5
Totals	19	18	32	28	13	17	Avg annual daily bicyclists:		
	37		60		30		36		





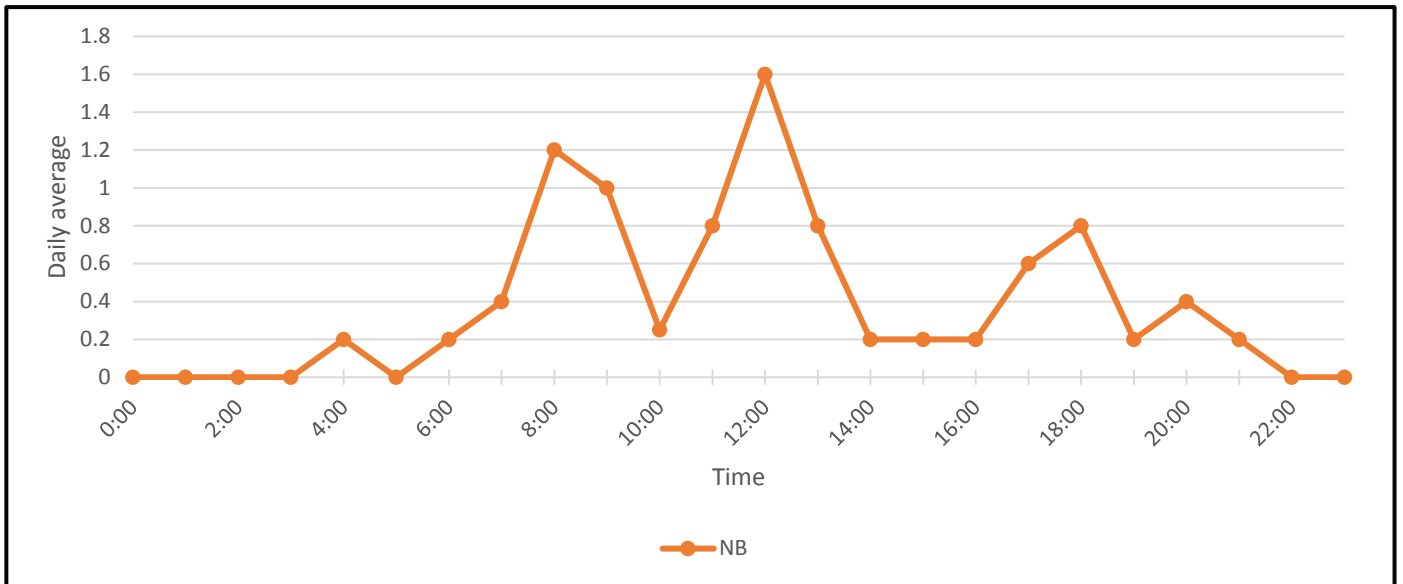
Hennepin County Bicycle Monitoring Program



Site Code: 9201 Northbound
Location: CSAH 092 & N of Trista Ln

AM Peak Hour Starts At: 8:00 **1.2** bikes
PM Peak Hour Starts At: 12:00 **1.6** bikes

Time	Wednesday 8/26/2015 NB	Thursday 8/27/2015 NB	Friday 8/28/2015 NB	Saturday 8/29/2015 NB	Sunday 8/30/2015 NB	Monday 8/31/2015 NB NULL	Daily Average 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	1	0.2
5:00	0	0	0	0	0	0	0
6:00	0	0	1	0	0	0	0.2
7:00	0	0	0	2	0	0	0.4
8:00	0	0	0	4	2	0	1.2
9:00	0	0	0	2	3	0	1
10:00	0	0	0	1	0	0	0.25
11:00	0	0	0	1	3	0	0.8
12:00	0	1	1	2	4	0	1.6
13:00	0	0	0	0	4	0	0.8
14:00	0	0	0	1	0	0	0.2
15:00	0	0	0	1	0	0	0.2
16:00	0	0	0	1	0	0	0.2
17:00	3	0	0	0	0	0	0.6
18:00	1	0	3	0	0	0	0.8
19:00	0	0	0	0	1	0	0.2
20:00	0	0	0	0	2	0	0.4
21:00	0	0	0	1	0	0	0.2
22:00	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0
Totals	4	1	5	16	19	1	Avg annual daily bicyclists: 5



Note: Data at this site was collected from 8/26 through 8/31 but AADB calculation includes only 8/26 to 8/28. AADB of 5 is the total for both directions and is representative of weekdays. Weekend counts were higher.

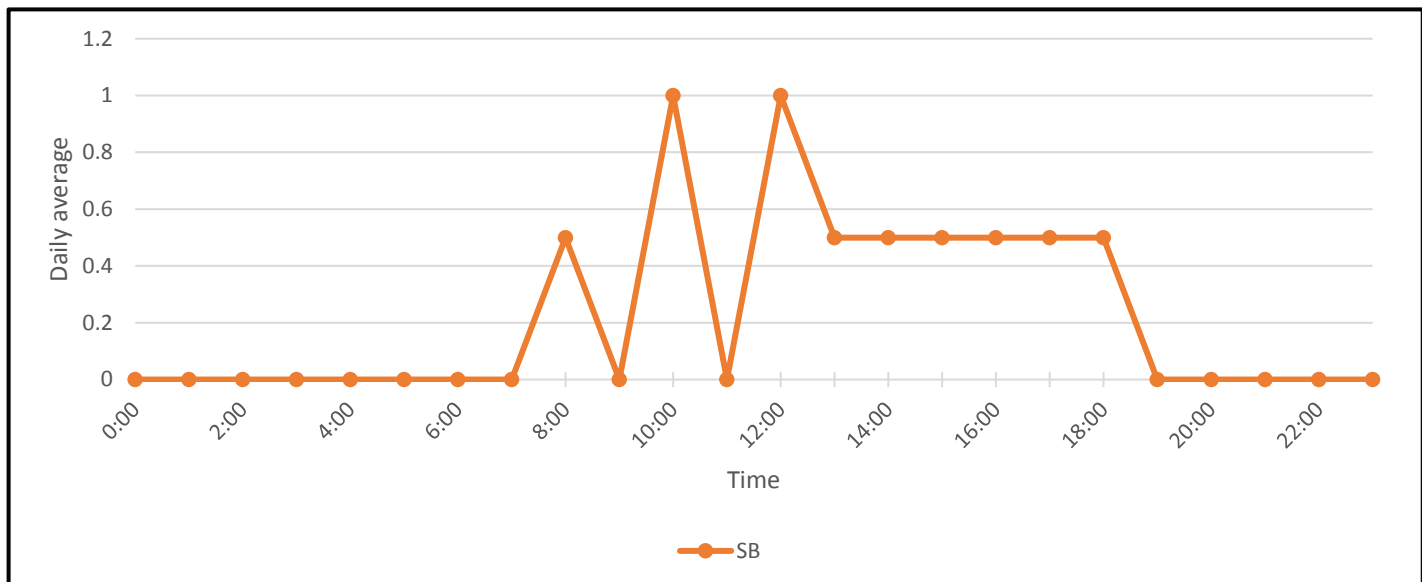


Hennepin County Bicycle Monitoring Program



Site Code: 9201 SB AM peak: 10:00 1 bikes
Location: CSAH 092 & N of Trista Ln PM peak: 12:00 1 bikes

Time	Tuesday 5/26/2015 SB	Wednesday 5/27/2015 SB	Thursday 5/28/2015 SB	Daily Average SB
0:00	0	0	0	0
1:00	0	0	0	0
2:00	0	0	0	0
3:00	0	0	0	0
4:00	0	0	0	0
5:00	0	0	0	0
6:00	0	0	0	0
7:00	0	0	0	0
8:00	0	0	1	0.5
9:00	0	0	0	0
10:00	0	0	2	1
11:00	0	0	0	0
12:00	1	1	0	1
13:00	1	0	0	0.5
14:00	0	1	0	0.5
15:00	0	1	0	0.5
16:00	0	1	0	0.5
17:00	0	1	0	0.5
18:00	0	1	0	0.5
19:00	0	0	0	0
20:00	0	0	0	0
21:00	0	0	0	0
22:00	0	0	0	0
23:00	0	0	0	0
Totals	2	6	3	Avg annual daily bicyclists: 5



Note: The AADB of 5 is the total for both directions.

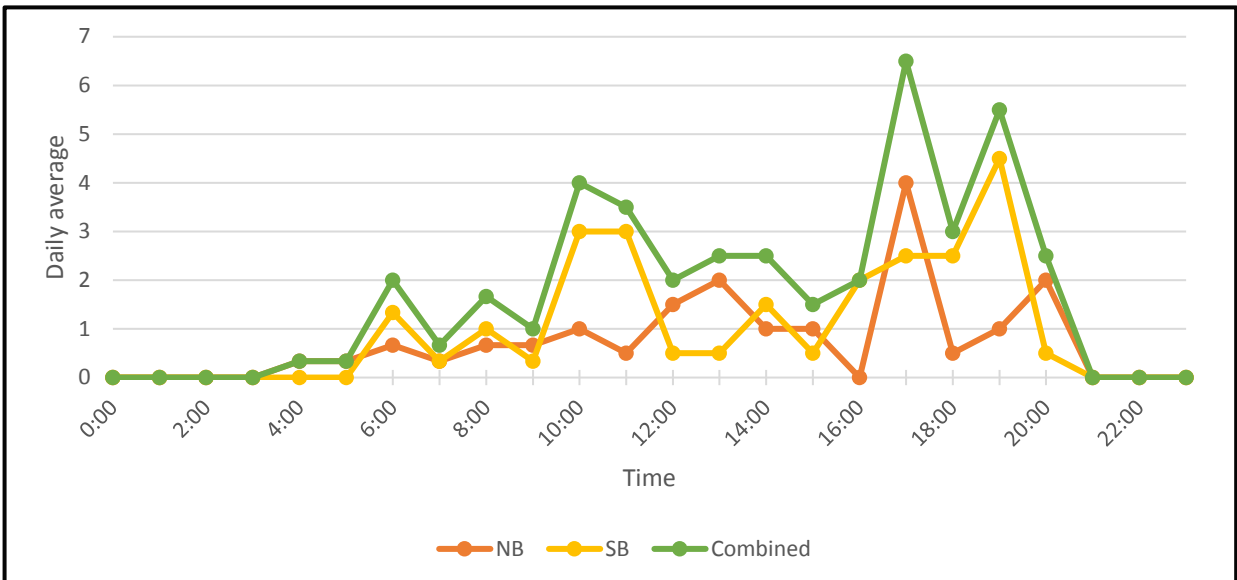


Hennepin County Bicycle Monitoring Program



Site Code: 11001 AM peak: 10:00 **4** bikes
Location: CSAH 110 & N of Grandview Blvd / Sherwood Dr PM peak: 17:00 **6.5** bikes

Time	Wednesday 5/27/2015		Thursday 5/28/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	Combined
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	0.33	0	0.33
5:00	1	0	0	0	0.33	0	0.33
6:00	1	0	1	2	0.67	1.33	2
7:00	0	1	0	0	0.33	0.33	0.67
8:00	0	0	2	2	0.67	1	1.67
9:00	1	0	1	1	0.67	0.33	1
10:00	1	4	1	2	1	3	4
11:00	1	4	0	2	0.5	3	3.5
12:00	3	1	0	0	1.5	0.5	2
13:00	3	1	1	0	2	0.5	2.5
14:00	0	1	2	2	1	1.5	2.5
15:00	1	0	1	1	1	0.5	1.5
16:00	0	2	0	2	0	2	2
17:00	3	3	5	2	4	2.5	6.5
18:00	0	5	1	0	0.5	2.5	3
19:00	2	4	0	5	1	4.5	5.5
20:00	3	1	1	0	2	0.5	2.5
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	20	27	17	21	Avg annual daily bicyclists:		
	47		38		22		



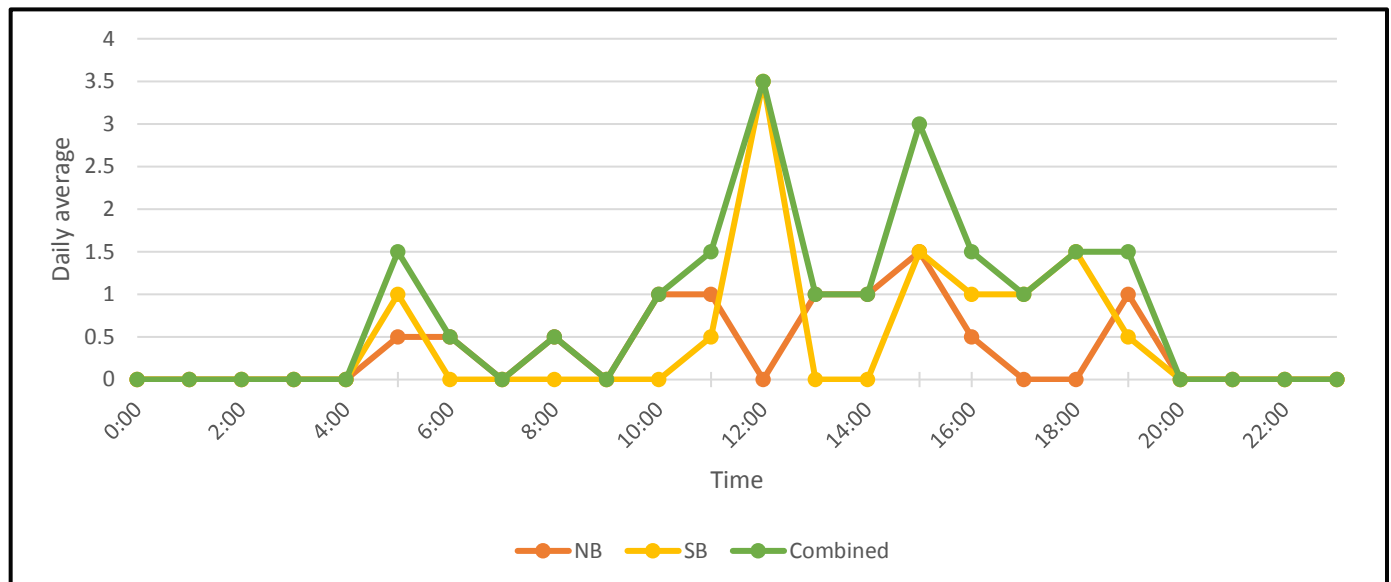


Hennepin County Bicycle Monitoring Program



Site Code: 15101 AM peak: 5:00 **1.5** bikes
Location: CSAH 151 & N of Cherry Ave PM peak: 12:00 **3.5** bikes

Time	Tuesday 8/4/2015		Wednesday 8/5/2015		Thursday 8/6/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	1	2	0	0	0.5	1	1.5
6:00	0	0	1	0	0	0	0.5	0	0.5
7:00	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	1	0	0.5	0	0.5
9:00	0	0	0	0	0	0	0	0	0
10:00	0	0	1	0	1	0	1	0	1
11:00	2	0	0	1	0	0	1	0.5	1.5
12:00	0	7	0	0	0	0	0	3.5	3.5
13:00	2	0	0	0	0	0	1	0	1
14:00	2	0	0	0	0	0	1	0	1
15:00	3	3	0	0	0	0	1.5	1.5	3
16:00	0	2	1	0	0	0	0.5	1	1.5
17:00	0	2	0	0	0	0	0	1	1
18:00	0	2	0	1	0	0	0	1.5	1.5
19:00	2	1	0	0	0	0	1	0.5	1.5
20:00	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0
Totals	11	17	4	4	2	0	Avg annual daily bicyclists:		
	28		8		2		10		



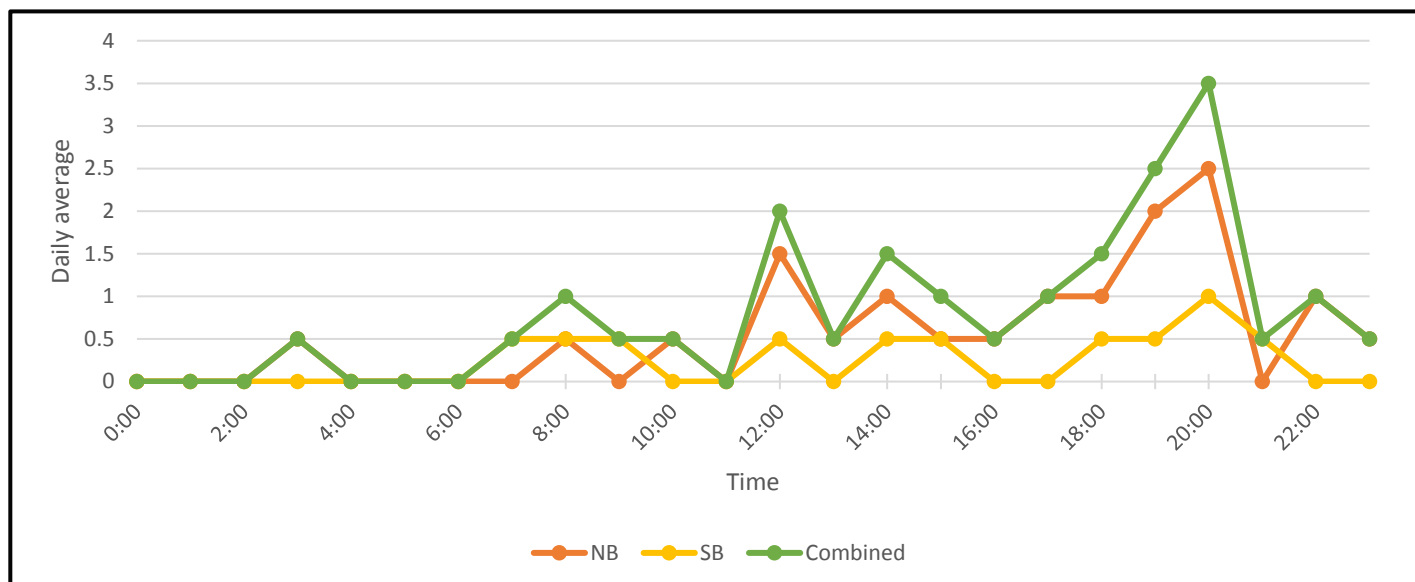


Hennepin County Bicycle Monitoring Program



Site Code: 15201 **AM peak:** 8:00 **1** bikes
Location: CSAH 152 & N of Nokomis Pkwy **PM peak:** 20:00 **3.5** bikes

Time	Wednesday 7/22/2015		Thursday 7/23/2015		Friday 7/24/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	1	0	0.5	0	0.5
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0
7:00	0	0	0	1	0	0	0	0.5	0.5
8:00	0	0	1	1	0	0	0.5	0.5	1
9:00	0	0	0	0	0	1	0	0.5	0.5
10:00	0	0	0	0	1	0	0.5	0	0.5
11:00	0	0	0	0	0	0	0	0	0
12:00	3	1	0	0	0	0	1.5	0.5	2
13:00	0	0	1	0	0	0	0.5	0	0.5
14:00	0	1	2	0	0	0	1	0.5	1.5
15:00	0	0	1	1	0	0	0.5	0.5	1
16:00	1	0	0	0	0	0	0.5	0	0.5
17:00	0	0	2	0	0	0	1	0	1
18:00	1	1	1	0	0	0	1	0.5	1.5
19:00	2	0	2	1	0	0	2	0.5	2.5
20:00	1	1	4	1	0	0	2.5	1	3.5
21:00	0	1	0	0	0	0	0	0.5	0.5
22:00	2	0	0	0	0	0	1	0	1
23:00	1	0	0	0	0	0	0.5	0	0.5
Totals	11	5	14	5	2	1	Avg annual daily bicyclists:		
	16		19		3		8		



Note: unexplained significant % difference between NB and SB

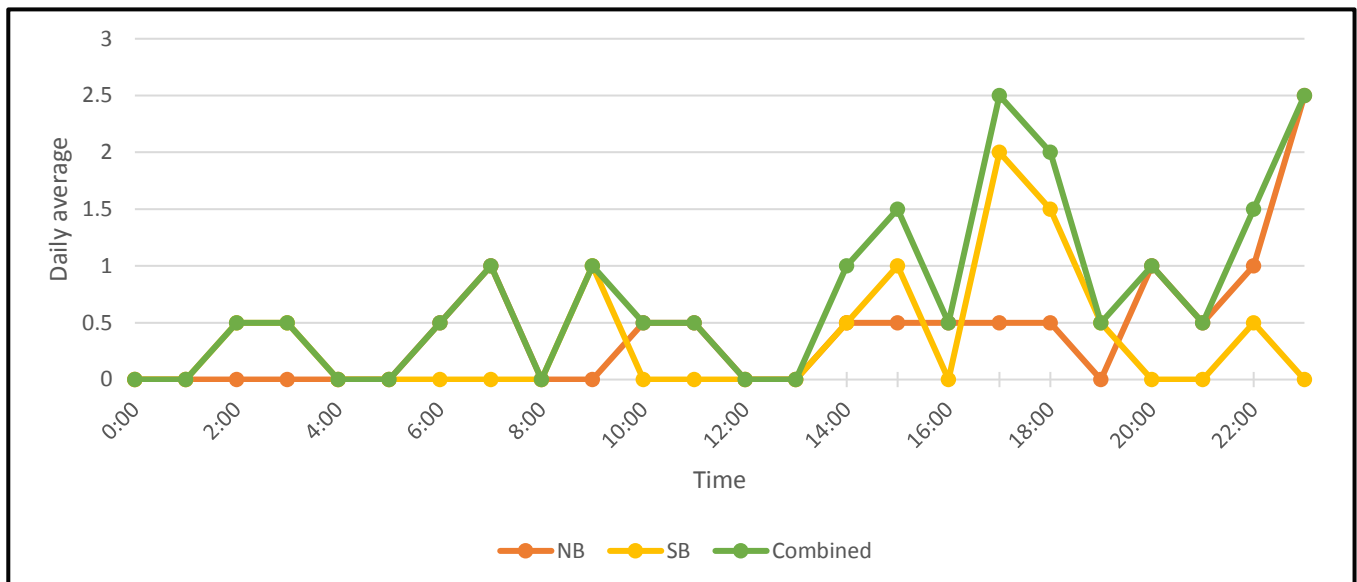


Hennepin County Bicycle Monitoring Program



Site Code: 15203 **AM peak:** 7:00 **1** bikes
Location: CSAH 152 & S of 40th St **PM peak:** 17:00 **2.5** bikes

Time	Monday 5/11/2015		Tuesday 5/12/2015		Wednesday 5/13/2015		Daily Average		
	NB	SB	NB	SB	NB	SB	NB	SB	Combined
0:00	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	1	0	0	0	0.5	0.5
3:00	0	0	0	0	0	1	0	0.5	0.5
4:00	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	1	0	0.5	0	0.5
7:00	0	0	1	0	1	0	1	0	1
8:00	0	0	0	0	0	0	0	0	0
9:00	0	0	0	1	0	1	0	1	1
10:00	0	0	1	0	0	0	0.5	0	0.5
11:00	0	0	1	0	0	0	0.5	0	0.5
12:00	0	0	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0	0	0
14:00	0	0	1	1	0	0	0.5	0.5	1
15:00	1	1	0	1	0	0	0.5	1	1.5
16:00	1	0	0	0	0	0	0.5	0	0.5
17:00	0	1	1	3	0	0	0.5	2	2.5
18:00	1	3	0	0	0	0	0.5	1.5	2
19:00	0	1	0	0	0	0	0	0.5	0.5
20:00	1	0	1	0	0	0	1	0	1
21:00	1	0	0	0	0	0	0.5	0	0.5
22:00	0	0	2	1	0	0	1	0.5	1.5
23:00	2	0	3	0	0	0	2.5	0	2.5
Totals	7	6	11	8	2	2	Avg annual daily bicyclists:		
	13		19		4		20		



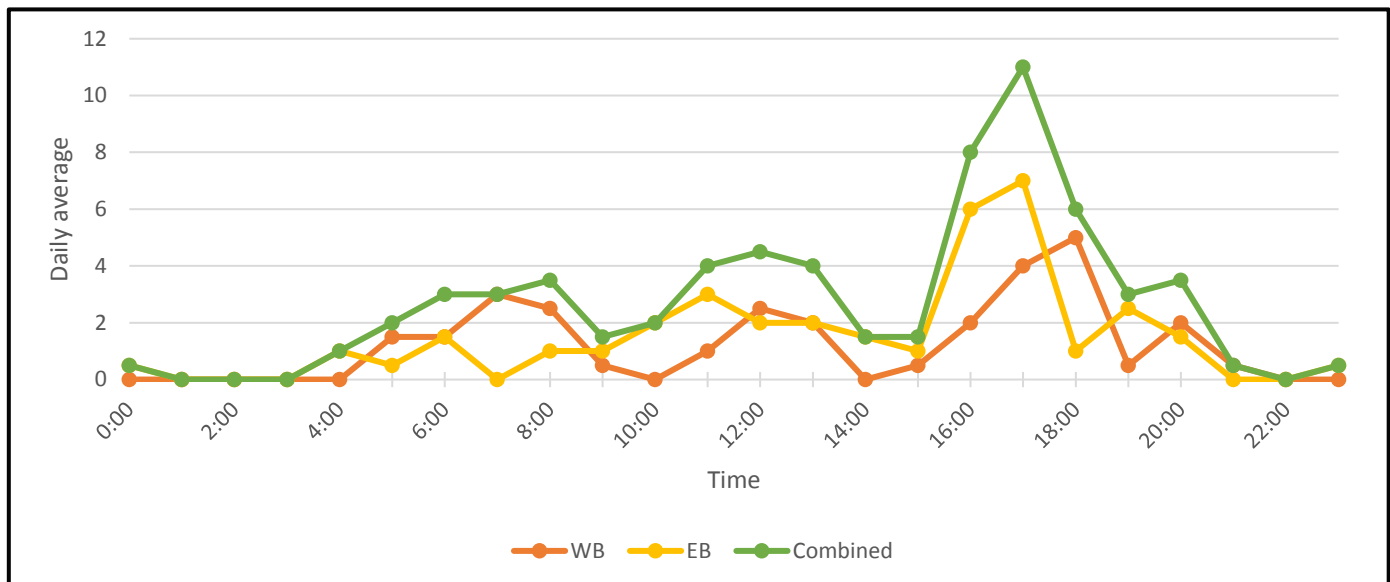


Hennepin County Bicycle Monitoring Program



Site Code: 15801 **AM peak:** 11:00 **4** bikes
Location: CSAH 158 & E of Vernon Ln **PM peak:** 17:00 **11** bikes

Time	Wednesday 7/22/2015		Thursday 7/23/2015		Friday 7/24/2015		Daily Average		
	WB	EB	WB	EB	WB	EB	WB	EB	Combined
0:00	0	0	0	1	0	0	0	0.5	0.5
1:00	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	1	0	1	1
5:00	0	0	3	1	0	0	1.5	0.5	2
6:00	0	0	3	3	0	0	1.5	1.5	3
7:00	0	0	5	0	1	0	3	0	3
8:00	0	0	5	1	0	1	2.5	1	3.5
9:00	0	0	0	2	1	0	0.5	1	1.5
10:00	0	0	0	2	0	2	0	2	2
11:00	2	5	0	1	0	0	1	3	4
12:00	2	2	3	2	0	0	2.5	2	4.5
13:00	3	1	1	3	0	0	2	2	4
14:00	0	2	0	1	0	0	0	1.5	1.5
15:00	1	0	0	2	0	0	0.5	1	1.5
16:00	2	6	2	6	0	0	2	6	8
17:00	5	9	3	5	0	0	4	7	11
18:00	4	0	6	2	0	0	5	1	6
19:00	1	2	0	3	0	0	0.5	2.5	3
20:00	4	1	0	2	0	0	2	1.5	3.5
21:00	0	0	1	0	0	0	0.5	0	0.5
22:00	0	0	0	0	0	0	0	0	0
23:00	0	0	0	1	0	0	0	0.5	0.5
Totals	24	28	32	39	2	4	Avg annual daily bicyclists: 29		
	52		71		6				



Hennepin County

Public Works

701 Fourth Avenue South, Suite 400

Tel 612-543-1963

www.hennepin.us/bike

