
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Abhishek Deora, Engineering Aide
DATE: September 15th, 2017
SUBJECT: Railroad at 14th St Classification Count

This memo is to formalize City Engineering's initial findings and observations in regard to the class of vehicles traveling on 14th St at Railroad.

City Engineering performed a 24-hour classification count of 14th St began at 11:38 am on September 14th, 2017 and ended at 1:39 pm on September 15th, 2017. The data was gathered using a Jamar Traffic Counter which collected traffic data, including vehicle classification, for each lane of traffic (northbound and southbound) using two parallel tubes that are placed on the road and are connected to the device. This information was then analyzed and the data for each lane compiled into one report, regardless of direction, using TraxPro. The TraxPro report organized the classification of the vehicles into groups. The report shows how many vehicles were within the specified class during one hour intervals as indicated by the report.

A total of 1239 vehicles traveled on 14th St during the 24-hour class count. The vehicle class count showed that 70 vehicles, 5.7 percent, traveling on 14th St during the count were a class 6 (FHA Scheme F) or higher.

788 vehicles, 63.6 percent, fell into class 14 which is for bicycles and unknown vehicles. This number suggests that many people use this section of 14th St as a bicycling route. This number could also be partially due to vehicles parking on the tubes for the traffic counter.

During the 24 Hour study the average mean speed of the vehicles travelling on the 14th St is 18 miles per hour, with 16.1% of all the vehicles travelling at the greater speed than the posted limit of 25 miles per hour.

Summary:

- Number of Vehicles: 1239 vehicles
- Class 6 or Higher: 5.7%
- Class 1 to 5: 30.7%
- Class 14 (Unknown/Bicycles): 63.6%
- Mean Speed: 18 mph
- 85th Percentile: 25 mph
- 95th Percentile: 29 mph

Encl.: Detailed TraxPro Classification Report

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	5	10	2	0	0	0	0	0	0	1	0	0	0	1	19
12 PM	2	11	1	0	0	2	0	0	0	0	0	0	2	23	41
13:00	4	20	3	0	0	2	0	0	0	1	0	0	0	2	32
14:00	2	19	1	0	0	0	1	0	0	0	0	0	0	8	31
15:00	8	24	6	0	0	0	0	0	0	0	0	0	0	10	48
16:00	10	19	3	0	0	4	0	0	0	2	0	0	1	27	66
17:00	6	28	2	0	1	5	0	0	0	0	0	0	2	20	64
18:00	6	14	4	0	0	3	0	0	0	0	0	0	0	17	44
19:00	6	8	0	0	0	3	0	0	0	0	0	0	1	19	37
20:00	3	6	0	0	0	8	0	0	0	0	0	0	0	6	23
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	52	159	22	0	1	27	1	0	0	4	0	0	6	136	408
Percent	12.7%	39.0%	5.4%	0.0%	0.2%	6.6%	0.2%	0.0%	0.0%	1.0%	0.0%	0.0%	1.5%	33.3%	
AM Peak	11:00	11:00	11:00							11:00				11:00	
Vol.	5	10	2							1				1	
PM Peak	16:00	17:00	15:00		17:00	20:00	14:00			16:00			12:00	16:00	
Vol.	10	28	6		1	8	1			2			2	27	

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/15/17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	2	3
05:00	1	0	0	0	0	1	1	0	0	0	0	0	0	2	5
06:00	0	6	0	0	0	0	0	0	0	0	0	0	1	3	10
07:00	5	9	0	0	0	5	0	0	0	0	0	0	0	13	32
08:00	4	11	2	0	0	1	0	0	0	0	0	0	0	10	28
09:00	4	20	2	0	0	0	0	0	0	0	0	0	1	5	32
10:00	2	19	3	0	0	2	0	0	0	0	0	0	0	8	34
11:00	5	14	1	0	0	1	0	0	0	0	0	0	0	8	29
12 PM	6	23	0	0	0	1	0	0	0	0	0	0	0	8	38
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	27	104	8	0	0	12	1	0	0	0	0	0	2	59	213
Percent	12.7%	48.8%	3.8%	0.0%	0.0%	5.6%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	27.7%	
AM Peak	07:00	09:00	10:00			07:00	05:00						06:00	07:00	
Vol.	5	20	3			5	1						1	13	
PM Peak	12:00	12:00				12:00								12:00	
Vol.	6	23				1								8	
Grand Total	79	263	30	0	1	39	2	0	0	4	0	0	8	195	621
Percent	12.7%	42.4%	4.8%	0.0%	0.2%	6.3%	0.3%	0.0%	0.0%	0.6%	0.0%	0.0%	1.3%	31.4%	

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	27	27
12 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	31	33
13:00	1	0	0	0	0	0	0	0	0	0	0	0	0	37	38
14:00	0	0	0	0	0	0	0	0	0	0	0	0	1	19	20
15:00	0	0	0	0	0	0	0	0	0	0	0	0	1	58	59
16:00	0	0	0	0	0	1	0	0	0	0	0	0	0	79	80
17:00	0	0	0	0	0	0	0	0	0	0	0	0	1	62	63
18:00	1	0	0	0	0	0	0	0	0	0	0	0	2	29	32
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
20:00	0	0	0	0	0	0	0	0	0	0	0	0	1	21	22
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total	3	0	0	0	0	1	0	0	0	0	0	0	7	412	423
Percent	0.7%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	97.4%	
AM Peak Vol.														11:00	27
PM Peak Vol.	12:00					16:00							18:00	16:00	
	1					1							2	79	

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/15/17	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
05:00	1	0	0	0	0	0	0	0	0	0	0	0	0	3	4
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
07:00	0	0	0	0	0	0	0	0	0	0	0	0	3	20	23
08:00	0	0	0	0	0	0	0	0	0	0	0	0	1	21	22
09:00	1	0	0	0	0	0	0	0	0	0	0	0	1	22	24
10:00	0	1	0	0	0	0	0	0	0	0	0	0	1	28	30
11:00	0	1	0	0	0	1	0	0	0	0	0	0	0	31	33
12 PM	1	0	0	0	0	1	0	0	0	0	0	0	1	46	49
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	3	2	0	0	0	2	0	0	0	0	0	0	7	181	195
Percent	1.5%	1.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%	92.8%	
AM Peak	05:00	10:00				11:00							07:00	11:00	
Vol.	1	1				1							3	31	
PM Peak	12:00					12:00							12:00	12:00	
Vol.	1					1							1	46	
Grand Total	6	2	0	0	0	3	0	0	0	0	0	0	14	593	618
Percent	1.0%	0.3%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	96.0%	

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	5	10	2	0	0	0	0	0	0	1	0	0	0	28	46
12 PM	3	11	1	0	0	2	0	0	0	0	0	0	3	54	74
13:00	5	20	3	0	0	2	0	0	0	1	0	0	0	39	70
14:00	2	19	1	0	0	0	1	0	0	0	0	0	1	27	51
15:00	8	24	6	0	0	0	0	0	0	0	0	0	1	68	107
16:00	10	19	3	0	0	5	0	0	0	2	0	0	1	106	146
17:00	6	28	2	0	1	5	0	0	0	0	0	0	3	82	127
18:00	7	14	4	0	0	3	0	0	0	0	0	0	2	46	76
19:00	6	8	0	0	0	3	0	0	0	0	0	0	1	55	73
20:00	3	6	0	0	0	8	0	0	0	0	0	0	1	27	45
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Total	55	159	22	0	1	28	1	0	0	4	0	0	13	548	831
Percent	6.6%	19.1%	2.6%	0.0%	0.1%	3.4%	0.1%	0.0%	0.0%	0.5%	0.0%	0.0%	1.6%	65.9%	
AM Peak	11:00	11:00	11:00							11:00				11:00	
Vol.	5	10	2							1				28	
PM Peak	16:00	17:00	15:00		17:00	20:00	14:00			16:00			12:00	16:00	
Vol.	10	28	6		1	8	1			2			3	106	

Railroad at 14th St
Class

Site Code: 000000000000
Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13	Class 14	Total
09/15/17	0	1	0	0	0	0	0	0	0	0	0	0	0	2	3
01:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	4	5
05:00	2	0	0	0	0	1	1	0	0	0	0	0	0	5	9
06:00	0	6	0	0	0	0	0	0	0	0	0	0	1	8	15
07:00	5	9	0	0	0	5	0	0	0	0	0	0	3	33	55
08:00	4	11	2	0	0	1	0	0	0	0	0	0	1	31	50
09:00	5	20	2	0	0	0	0	0	0	0	0	0	2	27	56
10:00	2	20	3	0	0	2	0	0	0	0	0	0	1	36	64
11:00	5	15	1	0	0	2	0	0	0	0	0	0	0	39	62
12 PM	7	23	0	0	0	2	0	0	0	0	0	0	1	54	87
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	30	106	8	0	0	14	1	0	0	0	0	0	9	240	408
Percent	7.4%	26.0%	2.0%	0.0%	0.0%	3.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	58.8%	
AM Peak	07:00	09:00	10:00			07:00	05:00						07:00	11:00	
Vol.	5	20	3			5	1						3	39	
PM Peak	12:00	12:00				12:00							12:00	12:00	
Vol.	7	23				2							1	54	
Grand Total	85	265	30	0	1	42	2	0	0	4	0	0	22	788	1239
Percent	6.9%	21.4%	2.4%	0.0%	0.1%	3.4%	0.2%	0.0%	0.0%	0.3%	0.0%	0.0%	1.8%	63.6%	

Rairoad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9999	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	4	6	7	2	0	0	0	0	0	0	0	0	0	0	19	16-25	13
12 PM	8	20	12	1	0	0	0	0	0	0	0	0	0	0	41	16-25	32
13:00	8	10	13	0	1	0	0	0	0	0	0	0	0	0	32	16-25	23
14:00	13	10	7	1	0	0	0	0	0	0	0	0	0	0	31	16-25	17
15:00	24	11	12	1	0	0	0	0	0	0	0	0	0	0	48	16-25	24
16:00	33	20	7	4	0	1	0	0	0	0	0	0	0	1	66	11-20	31
17:00	35	16	6	5	0	0	0	0	0	1	0	0	0	1	64	11-20	28
18:00	20	17	4	3	0	0	0	0	0	0	0	0	0	0	44	11-20	24
19:00	20	12	5	0	0	0	0	0	0	0	0	0	0	0	37	11-20	19
20:00	10	6	6	1	0	0	0	0	0	0	0	0	0	0	23	16-25	12
21:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
Total	175	128	82	18	1	1	0	0	0	1	0	0	0	2	408		
Percent	42.9%	31.4%	20.1%	4.4%	0.2%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%			
AM Peak	11:00	11:00	11:00	11:00												11:00	
Vol.	4	6	7	2												19	
PM Peak	17:00	12:00	13:00	17:00	13:00	16:00				17:00				16:00	16:00		
Vol.	35	20	13	5	1	1			1				1	66			

Rairoad at 14th St
Class

Site Code: 000000000000
Station ID:

Latitude: 0' 0.0000 South

A to B

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	9999			
09/15/17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
01:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	14-23	2
05:00	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5	16-25	3
06:00	2	3	5	0	0	0	0	0	0	0	0	0	0	0	10	16-25	8
07:00	7	8	11	6	0	0	0	0	0	0	0	0	0	0	32	16-25	19
08:00	3	8	11	6	0	0	0	0	0	0	0	0	0	0	28	16-25	19
09:00	2	12	12	6	0	0	0	0	0	0	0	0	0	0	32	16-25	24
10:00	11	11	11	0	0	0	0	0	0	0	0	0	0	1	34	16-25	22
11:00	4	6	16	3	0	0	0	0	0	0	0	0	0	0	29	16-25	22
12 PM	13	7	13	4	1	0	0	0	0	0	0	0	0	0	38	16-25	20
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	45	57	83	26	1	0	0	0	0	0	0	0	0	1	213		
Percent	21.1%	26.8%	39.0%	12.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%			
AM Peak	10:00	09:00	11:00	07:00										10:00	10:00		
Vol.	11	12	16	6										1	34		
PM Peak	12:00	12:00	12:00	12:00	12:00										12:00		
Vol.	13	7	13	4	1										38		
Total	220	185	165	44	2	1	0	0	0	1	0	0	0	3	621		
Percent	35.4%	29.8%	26.6%	7.1%	0.3%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%			

15th Percentile : 6 MPH
50th Percentile : 17 MPH
85th Percentile : 23 MPH
95th Percentile : 27 MPH

Stats
10 MPH Pace Speed : 16-25 MPH
Number in Pace : 358
Percent in Pace : 57.6%
Number of Vehicles > 25 MPH : 51
Percent of Vehicles > 25 MPH : 8.2%
Mean Speed(Average) : 17 MPH

Rairoad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9999	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	4	6	10	5	2	0	0	0	0	0	0	0	0	0	27	16-25	16
12 PM	10	5	10	6	2	0	0	0	0	0	0	0	0	0	33	21-30	16
13:00	6	12	8	8	4	0	0	0	0	0	0	0	0	0	38	16-25	20
14:00	6	2	6	4	2	0	0	0	0	0	0	0	0	0	20	21-30	10
15:00	12	23	11	9	4	0	0	0	0	0	0	0	0	0	59	16-25	34
16:00	26	28	19	5	2	0	0	0	0	0	0	0	0	0	80	16-25	48
17:00	24	15	18	5	0	1	0	0	0	0	0	0	0	0	63	16-25	34
18:00	7	8	10	5	2	0	0	0	0	0	0	0	0	0	32	16-25	18
19:00	2	7	17	7	3	0	0	0	0	0	0	0	0	0	36	21-30	24
20:00	6	2	9	4	1	0	0	0	0	0	0	0	0	0	22	21-30	13
21:00	0	2	5	1	1	0	0	0	0	0	0	0	0	0	9	16-25	7
22:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
23:00	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3	15-24	2
Total	103	110	125	60	24	1	0	0	0	0	0	0	0	0	423		
Percent	24.3%	26.0%	29.6%	14.2%	5.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	11:00	11:00	11:00										11:00		
Vol.	4	6	10	5	2										27		
PM Peak	16:00	16:00	16:00	15:00	13:00	17:00									16:00		
Vol.	26	28	19	9	4	1									80		

Rairoad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
09/15/17	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	26-35	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	2
05:00	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	4	15-24	3
06:00	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	5	21-30	3
07:00	14	4	2	3	0	0	0	0	0	0	0	0	0	0	0	23	7-16	9
08:00	8	8	4	2	0	0	0	0	0	0	0	0	0	0	0	22	16-25	12
09:00	5	5	6	7	1	0	0	0	0	0	0	0	0	0	0	24	21-30	13
10:00	7	9	5	8	1	0	0	0	0	0	0	0	0	0	0	30	17-26	14
11:00	6	5	7	11	3	1	0	0	0	0	0	0	0	0	0	33	21-30	18
12 PM	8	5	14	16	6	0	0	0	0	0	0	0	0	0	0	49	21-30	30
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	51	38	43	50	12	1	0	0	0	0	0	0	0	0	0	195		
Percent	26.2%	19.5%	22.1%	25.6%	6.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	10:00	11:00	11:00	11:00	11:00												11:00
Vol.	14	9	7	11	3	1												33
PM Peak	12:00	12:00	12:00	12:00	12:00													12:00
Vol.	8	5	14	16	6													49
Total	154	148	168	110	36	2	0	0	0	0	0	0	0	0	0	618		
Percent	24.9%	23.9%	27.2%	17.8%	5.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 9 MPH
 50th Percentile : 20 MPH
 85th Percentile : 27 MPH
 95th Percentile : 31 MPH

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 321
 Percent in Pace : 51.9%
 Number of Vehicles > 25 MPH : 148
 Percent of Vehicles > 25 MPH : 23.9%
 Mean Speed(Average) : 20 MPH

Rairoad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
09/14/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	8	12	17	7	2	0	0	0	0	0	0	0	0	0	0	46	16-25	29
12 PM	18	25	22	7	2	0	0	0	0	0	0	0	0	0	0	74	16-25	48
13:00	14	22	21	8	5	0	0	0	0	0	0	0	0	0	0	70	16-25	44
14:00	19	12	13	5	2	0	0	0	0	0	0	0	0	0	0	51	16-25	26
15:00	36	34	23	10	4	0	0	0	0	0	0	0	0	0	0	107	16-25	58
16:00	59	48	26	9	2	1	0	0	0	0	0	0	0	0	1	146	16-25	76
17:00	59	31	24	10	0	1	0	0	0	1	0	0	0	0	1	127	16-25	57
18:00	27	25	14	8	2	0	0	0	0	0	0	0	0	0	0	76	16-25	40
19:00	22	19	22	7	3	0	0	0	0	0	0	0	0	0	0	73	16-25	42
20:00	16	8	15	5	1	0	0	0	0	0	0	0	0	0	0	45	16-25	24
21:00	0	2	7	1	1	0	0	0	0	0	0	0	0	0	0	11	16-25	9
22:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	19-28	1
23:00	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	4	16-25	3
Total	278	238	207	78	25	2	0	0	0	1	0	0	0	0	2	831		
Percent	33.5%	28.6%	24.9%	9.4%	3.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%			
AM Peak	11:00	11:00	11:00	11:00	11:00												11:00	
Vol.	8	12	17	7	2												46	
PM Peak	16:00	16:00	16:00	15:00	13:00	16:00				17:00				16:00	16:00			
Vol.	59	48	26	10	5	1				1				1	146			

Rairoad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

A to B, B to A

Start Time	0	16	21	26	31	36	41	46	51	56	61	66	71	76	9999	Total	Pace Speed	Number in Pace
09/15/17	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	26-35	1
01:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	5	19-28	4
05:00	2	2	4	0	1	0	0	0	0	0	0	0	0	0	0	9	16-25	6
06:00	4	3	7	1	0	0	0	0	0	0	0	0	0	0	0	15	16-25	10
07:00	21	12	13	9	0	0	0	0	0	0	0	0	0	0	0	55	16-25	26
08:00	11	16	15	8	0	0	0	0	0	0	0	0	0	0	0	50	16-25	31
09:00	7	17	18	13	1	0	0	0	0	0	0	0	0	0	0	56	16-25	35
10:00	18	20	16	8	1	0	0	0	0	0	0	0	0	1	0	64	16-25	37
11:00	10	11	23	14	3	1	0	0	0	0	0	0	0	0	0	62	21-30	37
12 PM	21	12	27	20	7	0	0	0	0	0	0	0	0	0	0	87	21-30	48
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	96	95	126	76	13	1	0	0	0	0	0	0	0	0	1	408		
Percent	23.5%	23.3%	30.9%	18.6%	3.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%			
AM Peak	07:00	10:00	11:00	11:00	11:00	11:00									10:00	10:00		
Vol.	21	20	23	14	3	1									1	64		
PM Peak	12:00	12:00	12:00	12:00	12:00											12:00		
Vol.	21	12	27	20	7											87		
Total	374	333	333	154	38	3	0	0	0	1	0	0	0	0	3	1239		
Percent	30.2%	26.9%	26.9%	12.4%	3.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%			

15th Percentile : 7 MPH
 50th Percentile : 18 MPH
 85th Percentile : 25 MPH
 95th Percentile : 29 MPH

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 679
 Percent in Pace : 54.8%
 Number of Vehicles > 25 MPH : 199
 Percent of Vehicles > 25 MPH : 16.1%
 Mean Speed(Average) : 18 MPH

Railroad at 14th St
Class

Site Code: 00000000000
Station ID:

Latitude: 0' 0.0000 South

Start Time	11-Sep-17 Mon	12-Sep-17 Tue	13-Sep-17 Wed	14-Sep-17 Thu	15-Sep-17 Fri	Weekday Average	16-Sep-17 Sat	17-Sep-17 Sun
12:00 AM	*	*	*	*	3	3	*	*
01:00	*	*	*	*	1	1	*	*
02:00	*	*	*	*	1	1	*	*
03:00	*	*	*	*	0	0	*	*
04:00	*	*	*	*	5	5	*	*
05:00	*	*	*	*	9	9	*	*
06:00	*	*	*	*	15	15	*	*
07:00	*	*	*	*	55	55	*	*
08:00	*	*	*	*	50	50	*	*
09:00	*	*	*	*	56	56	*	*
10:00	*	*	*	*	64	64	*	*
11:00	*	*	*	46	62	54	*	*
12:00 PM	*	*	*	74	87	80	*	*
01:00	*	*	*	70	*	70	*	*
02:00	*	*	*	51	*	51	*	*
03:00	*	*	*	107	*	107	*	*
04:00	*	*	*	146	*	146	*	*
05:00	*	*	*	127	*	127	*	*
06:00	*	*	*	76	*	76	*	*
07:00	*	*	*	73	*	73	*	*
08:00	*	*	*	45	*	45	*	*
09:00	*	*	*	11	*	11	*	*
10:00	*	*	*	1	*	1	*	*
11:00	*	*	*	4	*	4	*	*
Total	0	0	0	831	408		0	0
Percentage	0.0%	0.0%	0.0%	75.3%	37.0%		0.0%	0.0%
AM Peak	-	-	-	11:00	10:00	-	-	-
Vol.	-	-	-	46	64	-	-	-
PM Peak	-	-	-	16:00	12:00	-	-	-
Vol.	-	-	-	146	87	-	-	-
Total		0	0					