
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer (Per Resident Request) *JL*
FROM: Matthew Sexton, Engineering Aide *M.S.*
DATE: August 8th, 2018
SUBJECT: Alley South of Front, Between Barlow and Rose

This memo is to formalize City Engineering's initial findings and observations in regard to the class of vehicles traveling on Alley South of Front between Barlow and Rose.

City Engineering performed a 24-hour classification count of the alley south of front beginning at 9:00 am on August 6th and ending at 2:00 pm on August 6th. The data was gathered using a Jamar Bike Counter which collected traffic data, including vehicle classification, of traffic 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 1508 vehicles traveled the Alley South of Front, Between Barlow and Rose during the 24-hour class count. The vehicle class count showed that 10 vehicles, 0.6 percent, traveling on the alley during the count were a class 6 (FHA Scheme F) or higher. This means that 0.6 percent of the vehicles traveling on the road have at least three axels.

A total of 92 bikes, 6.1 percent, traveled on the alley during the 24-hour count. The average number of the bikes traveling on the alley per hour is 4 bikes.

Of the 1508 vehicles, 11.1 percent fell into class 14 which is for unknown vehicles. 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 alley was 17 miles per hour, with 13.0% of all the vehicles travelling at the greater speed than the posted limit of 25 miles per hour.

Summary:

• Number of Vehicles:	1508 vehicles
• Class 6 or Higher:	0.6%
• Class 1 to 5:	82.2%
• Bicycles:	6.1%
• Unknown:	11.1%
• Mean Speed:	17 MPH
• 85 th Percentile of Speed:	24 MPH
• 95 th Percentile of Speed:	28 MPH

Encl.: Detailed TraxPro Classification Report

**Alley South of Front
Between Barlow and Rose**

Best Times for Enforcement

Location:

Sun

Closest Cross Street:

Mon

Combined: 4 PM to 6 PM
Direction 1: 10 AM to Noon
Direction 2: 4 PM to 6 PM

Analysis Dates:

Tue

Combined: 7 AM to 9 AM
Direction 1: 8 AM to 10 AM
Direction 2: 7 AM to 9 AM

Monday, August 06, 2018

Tuesday, August 07, 2018

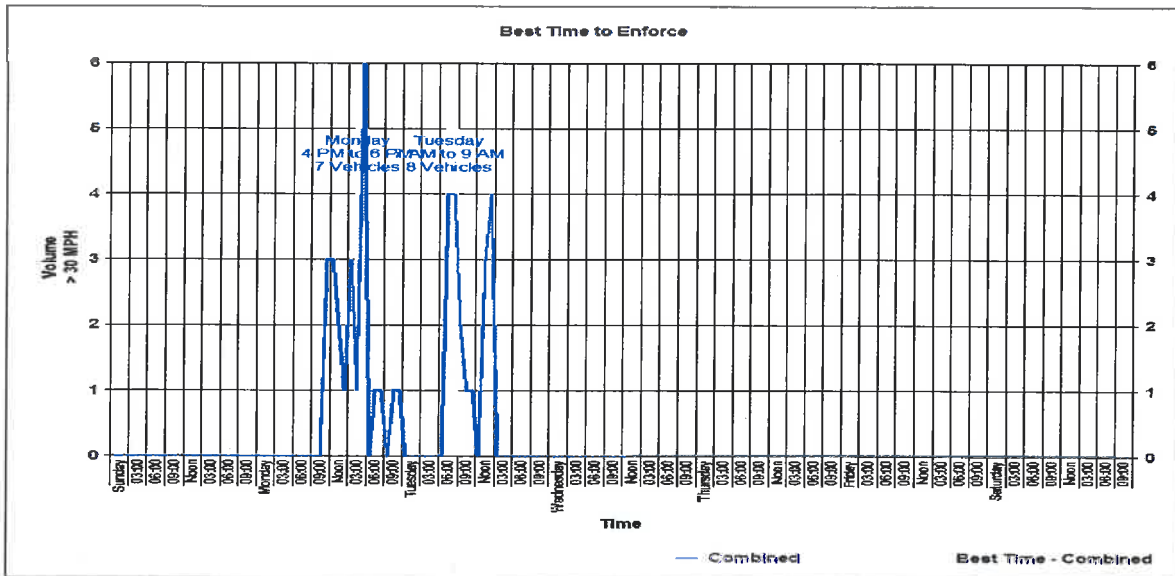
Requested By:

Wed

Thu

Fri

Sat



Alley South of Front Between Barlow and Rose

Direction 1

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/06/1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	0	22	6	0	2	0	0	0	1	0	0	0	0	1	0	32
11:00	0	32	10	0	2	0	0	0	1	0	0	0	0	0	4	49
12 PM	0	33	16	0	6	0	0	1	0	0	0	0	0	1	2	59
13:00	0	27	13	0	4	0	0	0	0	0	0	0	0	2	1	47
14:00	0	19	14	0	3	0	0	0	0	0	0	0	0	1	5	42
15:00	0	18	10	0	4	0	0	0	0	0	0	0	0	3	5	40
16:00	0	36	14	1	3	0	0	1	0	0	0	0	0	3	7	65
17:00	0	29	9	0	4	0	0	0	0	0	0	0	0	2	2	46
18:00	0	26	4	0	2	0	0	0	0	0	0	0	0	2	4	38
19:00	0	10	1	0	1	0	0	0	0	0	0	0	0	3	7	22
20:00	0	7	1	0	2	0	0	0	0	0	0	0	0	5	3	18
21:00	0	8	1	0	0	0	0	0	0	0	0	0	0	1	3	13
22:00	0	3	2	0	0	0	0	0	0	0	0	0	0	0	2	7
23:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	6
Total	0	273	101	1	33	0	0	2	2	0	0	0	0	24	48	484
Percent	0.0%	56.4%	20.9%	0.2%	6.8%	0.0%	0.0%	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	5.0%	9.9%	

**Alley South of Front
Between Barlow and Rose**

Direction 1

Start Time	Motor	Cars Trailer	2 Axle Long	2 Axle Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/07/1																
8	0	2	1	0	1	0	0	0	0	0	0	0	0	0	3	7
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2
03:00	0	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	3	0	3
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	5
07:00	0	23	8	0	2	0	0	0	0	0	0	0	0	1	5	39
08:00	0	41	23	0	1	0	0	0	0	0	0	0	0	1	2	68
09:00	1	18	9	0	2	1	0	0	0	0	0	0	0	3	1	35
10:00	0	21	7	0	2	0	0	0	0	0	0	0	0	0	0	30
11:00	0	37	9	0	2	0	0	0	0	0	0	0	0	3	2	53
12 PM	0	34	15	0	5	0	0	0	0	0	0	0	0	4	18	76
13:00	0	18	14	0	1	0	0	1	0	0	0	0	0	4	4	42
14:00	0	29	7	0	1	0	0	0	0	0	0	0	0	8	9	54
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	227	95	0	17	1	0	1	0	0	0	0	0	29	46	417
Percent	0.2%	54.4%	22.8%	0.0%	4.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	7.0%	11.0%	
Total	1	500	196	1	50	1	0	3	2	0	0	0	0	53	94	901
Percent	0.1%	55.5%	21.8%	0.1%	5.5%	0.1%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	5.9%	10.4%	

**Alley South of Front
Between Barlow and Rose**

Direction 2

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/06/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	0	3	9	0	2	0	0	0	0	0	0	0	0	0	3	17
11:00	0	6	11	0	2	1	0	0	0	0	0	0	0	0	8	28
12 PM	0	17	13	0	3	0	0	0	0	0	0	0	0	0	4	37
13:00	0	7	15	0	4	1	0	0	0	0	0	0	0	1	3	31
14:00	0	11	17	0	4	0	0	1	0	0	0	0	0	0	1	34
15:00	0	16	12	0	6	0	0	0	0	0	0	0	0	1	1	36
16:00	1	14	12	1	4	0	0	0	0	0	0	0	0	2	2	36
17:00	0	12	11	0	5	0	0	1	0	0	0	0	0	1	5	35
18:00	0	3	6	0	4	0	0	0	0	0	0	0	0	3	3	19
19:00	0	7	6	0	3	0	0	0	0	0	0	0	0	3	5	24
20:00	0	5	4	0	1	0	0	0	0	0	0	0	0	4	2	16
21:00	0	2	6	0	2	0	0	0	0	0	0	0	0	2	0	12
22:00	0	2	2	0	0	0	0	0	0	0	0	0	0	1	1	6
23:00	0	4	3	0	0	0	0	0	0	0	0	0	0	0	1	8
Total	1	109	127	1	40	2	0	2	0	0	0	0	0	18	39	339
Percent	0.3%	32.2%	37.5%	0.3%	11.8%	0.6%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	11.5%	

**Alley South of Front
Between Barlow and Rose**

Direction 2

Start Time	Cars Motor	Cars Trailer	2 Axle Long	2 Axle Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/07/1																
8	0	0	2	0	1	0	0	0	0	0	0	0	0	1	1	5
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	3
03:00	0	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	0	0	1
05:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3
06:00	0	0	4	0	1	0	0	0	0	0	0	0	0	1	0	6
07:00	0	3	11	0	3	0	0	0	0	0	0	0	0	1	2	20
08:00	0	5	11	0	2	0	0	0	0	0	0	0	0	1	4	23
09:00	0	6	8	0	3	0	0	0	0	0	0	0	0	1	2	20
10:00	1	5	10	0	1	0	0	0	0	0	0	0	0	1	4	22
11:00	0	9	16	0	2	0	0	0	0	0	0	0	0	1	5	33
12 PM	0	11	17	0	2	0	0	0	0	0	0	0	0	2	3	35
13:00	1	12	24	0	11	0	0	0	0	0	0	0	0	6	5	59
14:00	0	11	10	0	5	0	0	0	0	0	0	0	0	2	6	34
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	3	63	114	0	32	0	0	0	0	0	0	0	0	21	35	268
Percent	1.1%	23.5%	42.5%	0.0%	11.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.8%	13.1%	
Total	4	172	241	1	72	2	0	2	0	0	0	0	0	39	74	607
Percent	0.7%	28.3%	39.7%	0.2%	11.9%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	12.2%	

**Alley South of Front
Between Barlow and Rose**

Direction 1, Direction 2

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/06/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	0	25	15	0	4	0	0	0	1	0	0	0	0	1	3	49
11:00	0	38	21	0	4	1	0	0	1	0	0	0	0	0	12	77
12 PM	0	50	29	0	9	0	0	1	0	0	0	0	0	1	6	96
13:00	0	34	28	0	8	1	0	0	0	0	0	0	0	3	4	78
14:00	0	30	31	0	7	0	0	1	0	0	0	0	0	1	6	76
15:00	0	34	22	0	10	0	0	0	0	0	0	0	0	4	6	76
16:00	1	50	26	2	7	0	0	1	0	0	0	0	0	5	9	101
17:00	0	41	20	0	9	0	0	1	0	0	0	0	0	3	7	81
18:00	0	29	10	0	6	0	0	0	0	0	0	0	0	5	7	57
19:00	0	17	7	0	4	0	0	0	0	0	0	0	0	6	12	46
20:00	0	12	5	0	3	0	0	0	0	0	0	0	0	9	5	34
21:00	0	10	7	0	2	0	0	0	0	0	0	0	0	3	3	25
22:00	0	5	4	0	0	0	0	0	0	0	0	0	0	1	3	13
23:00	0	7	3	0	0	0	0	0	0	0	0	0	0	0	4	14
Total	1	382	228	2	73	2	0	4	2	0	0	0	0	42	87	823
Percent	0.1%	46.4%	27.7%	0.2%	8.9%	0.2%	0.0%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	5.1%	10.6%	

**Alley South of Front
Between Barlow and Rose**

Direction 1, Direction 2

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
08/07/1																
8	0	2	3	0	2	0	0	0	0	0	0	0	0	1	4	12
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	6
02:00	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	5
03:00	0	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	3	0	4
05:00	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	4
06:00	0	2	6	0	1	0	0	0	0	0	0	0	0	2	0	11
07:00	0	26	19	0	5	0	0	0	0	0	0	0	0	2	7	59
08:00	0	46	34	0	3	0	0	0	0	0	0	0	0	2	6	91
09:00	1	24	17	0	5	1	0	0	0	0	0	0	0	4	3	55
10:00	1	26	17	0	3	0	0	0	0	0	0	0	0	1	4	52
11:00	0	46	25	0	4	0	0	0	0	0	0	0	0	4	7	86
12 PM	0	45	32	0	7	0	0	0	0	0	0	0	0	6	21	111
13:00	1	30	38	0	12	0	0	1	0	0	0	0	0	10	9	101
14:00	0	40	17	0	6	0	0	0	0	0	0	0	0	10	15	88
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4	290	209	0	49	1	0	1	0	0	0	0	0	50	81	685
Percent	0.6%	42.3%	30.5%	0.0%	7.2%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%	11.8%	
Total	5	672	437	2	122	3	0	5	2	0	0	0	0	92	168	1508
Percent	0.3%	44.6%	29.0%	0.1%	8.1%	0.2%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	6.1%	11.1%	

Alley South of Front

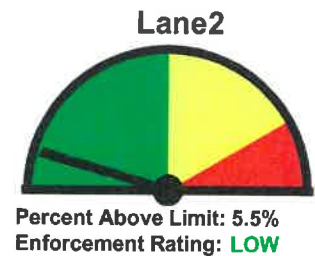
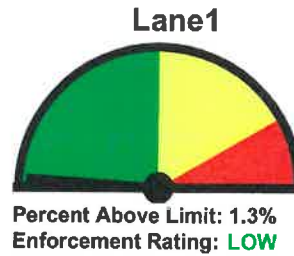
Speed Enforcement Evaluator

Location:
Alley South of front

Total Percentage of Enforceable Violations

Closest Cross Street:
Barlow & Rose

Analysis Dates:
Monday, August 06, 2018
Tuesday, August 07, 2018



Combined

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
6	106	294	424	390	138	36	5	1	0	0	0	0	0

85 percentile = 24

Lane1

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
2	60	182	283	232	66	10	1	0	0	0	0	0	0

85 percentile = 23

Lane2

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
4	46	112	141	158	72	26	4	1	0	0	0	0	0

85 percentile = 25

**Alley South of Front
Between Barlow and Rose**

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number	
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in	
08/06/18		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		Pace
	01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	10:00	12	10	9	1	0	0	0	0	0	0	0	0	0	0	32	16-25	19	
	11:00	18	15	9	4	3	0	0	0	0	0	0	0	0	0	49	16-25	24	
	12 PM	16	24	14	5	0	0	0	0	0	0	0	0	0	0	59	16-25	38	
	13:00	12	18	15	1	1	0	0	0	0	0	0	0	0	0	47	16-25	33	
	14:00	20	12	10	0	0	0	0	0	0	0	0	0	0	0	42	16-25	22	
	15:00	12	14	11	2	1	0	0	0	0	0	0	0	0	0	40	16-25	25	
	16:00	20	23	18	4	0	0	0	0	0	0	0	0	0	0	65	16-25	41	
	17:00	12	13	16	4	1	0	0	0	0	0	0	0	0	0	46	16-25	29	
	18:00	12	7	13	6	0	0	0	0	0	0	0	0	0	0	38	16-25	20	
	19:00	14	7	1	0	0	0	0	0	0	0	0	0	0	0	22	11-20	12	
	20:00	13	5	0	0	0	0	0	0	0	0	0	0	0	0	18	11-20	9	
	21:00	9	3	0	1	0	0	0	0	0	0	0	0	0	0	13	1-10	6	
	22:00	4	3	0	0	0	0	0	0	0	0	0	0	0	0	7	12-21	4	
	23:00	3	1	2	0	0	0	0	0	0	0	0	0	0	0	6	14-23	3	
	Total	177	155	118	28	6	0	0	0	0	0	0	0	0	0	484			
	Percent	36.6%	32.0%	24.4%	5.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
	AM Peak	11:00	11:00	10:00	11:00	11:00										11:00			
	Vol.	18	15	9	4	3										49			
	PM Peak	14:00	12:00	16:00	18:00	13:00										16:00			
	Vol.	20	24	18	6	1										65			

**Alley South of Front
Between Barlow and Rose**

Direction 2		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85		Speed	in Pace
08/06/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	6	4	5	2	0	0	0	0	0	0	0	0	0	0	0	17	16-25	9
11:00	14	7	6	1	0	0	0	0	0	0	0	0	0	0	0	28	15-24	13
12 PM	9	8	10	7	3	0	0	0	0	0	0	0	0	0	0	37	16-25	18
13:00	11	7	10	2	1	0	0	0	0	0	0	0	0	0	0	31	16-25	17
14:00	7	12	13	1	0	1	0	0	0	0	0	0	0	0	0	34	16-25	25
15:00	11	10	6	7	2	0	0	0	0	0	0	0	0	0	0	36	15-24	16
16:00	8	10	9	8	1	0	0	0	0	0	0	0	0	0	0	36	16-25	19
17:00	9	9	8	4	3	2	0	0	0	0	0	0	0	0	0	35	16-25	17
18:00	9	5	3	2	0	0	0	0	0	0	0	0	0	0	0	19	10-19	8
19:00	13	5	4	1	1	0	0	0	0	0	0	0	0	0	0	24	15-24	9
20:00	10	2	1	2	0	0	1	0	0	0	0	0	0	0	0	16	1-10	7
21:00	4	1	6	1	0	0	0	0	0	0	0	0	0	0	0	12	21-30	7
22:00	3	1	1	0	1	0	0	0	0	0	0	0	0	0	0	6	16-25	2
23:00	3	1	3	0	1	0	0	0	0	0	0	0	0	0	0	8	16-25	4
Total	117	82	85	38	13	3	1	0	0	0	0	0	0	0	0	339		
Percent	34.5%	24.2%	25.1%	11.2%	3.8%	0.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	11:00	10:00												11:00		
Vol.	14	7	6	2												28		
PM Peak	19:00	14:00	14:00	16:00	12:00	17:00	20:00									12:00		
Vol.	13	12	13	8	3	2	1									37		

**Alley South of Front
Between Barlow and Rose**

Direction 2		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	mph	
08/07/18	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	5	16-25	3
01:00	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	*	2
02:00	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	8-17	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
05:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	19-28	2
06:00	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	6	16-25	5
07:00	4	4	6	3	3	0	0	0	0	0	0	0	0	0	0	20	16-25	10
08:00	6	6	4	4	2	1	0	0	0	0	0	0	0	0	0	23	16-25	10
09:00	4	6	7	3	0	0	0	0	0	0	0	0	0	0	0	20	16-25	13
10:00	9	2	6	4	1	0	0	0	0	0	0	0	0	0	0	22	21-30	10
11:00	12	5	12	3	1	0	0	0	0	0	0	0	0	0	0	33	16-25	17
12 PM	14	11	6	4	0	0	0	0	0	0	0	0	0	0	0	35	15-24	17
13:00	22	15	14	5	3	0	0	0	0	0	0	0	0	0	0	59	16-25	29
14:00	11	6	9	5	3	0	0	0	0	0	0	0	0	0	0	34	16-25	15
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	92	58	71	33	13	1	0	0	0	0	0	0	0	0	0	268		
Percent	34.3%	21.6%	26.5%	12.3%	4.9%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	08:00	11:00	08:00	07:00	08:00												
Vol.	12	6	12	4	3	1										11:00		
PM Peak	13:00	13:00	13:00	13:00	13:00											13:00		
Vol.	22	15	14	5	3											33		
Total	209	140	156	71	26	4	1	0	0	0	0	0	0	0	0	59		
Percent	34.4%	23.1%	25.7%	11.7%	4.3%	0.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	607		

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 296
 Percent in Pace : 48.8%
 Number of Vehicles > 25 MPH : 102
 Percent of Vehicles > 25 MPH : 16.8%
 Mean Speed(Average) : 18 MPH

**Alley South of Front
Between Barlow and Rose**

Direction 1, Direction 2		16	21	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146	151	156	161	166	171	176	181	186	191	196	201	206	211	216	221	226	231	236	241	246	251	256	261	266	271	276	281	286	291	296	301	306	311	316	321	326	331	336	341	346	351	356	361	366	371	376	381	386	391	396	401	406	411	416	421	426	431	436	441	446	451	456	461	466	471	476	481	486	491	496	501	506	511	516	521	526	531	536	541	546	551	556	561	566	571	576	581	586	591	596	601	606	611	616	621	626	631	636	641	646	651	656	661	666	671	676	681	686	691	696	701	706	711	716	721	726	731	736	741	746	751	756	761	766	771	776	781	786	791	796	801	806	811	816	821	826	831	836	841	846	851	856	861	866	871	876	881	886	891	896	901	906	911	916	921	926	931	936	941	946	951	956	961	966	971	976	981	986	991	996	1001	1006	1011	1016	1021	1026	1031	1036	1041	1046	1051	1056	1061	1066	1071	1076	1081	1086	1091	1096	1101	1106	1111	1116	1121	1126	1131	1136	1141	1146	1151	1156	1161	1166	1171	1176	1181	1186	1191	1196	1201	1206	1211	1216	1221	1226	1231	1236	1241	1246	1251	1256	1261	1266	1271	1276	1281	1286	1291	1296	1301	1306	1311	1316	1321	1326	1331	1336	1341	1346	1351	1356	1361	1366	1371	1376	1381	1386	1391	1396	1401	1406	1411	1416	1421	1426	1431	1436	1441	1446	1451	1456	1461	1466	1471	1476	1481	1486	1491	1496	1501	1506	1511	1516	1521	1526	1531	1536	1541	1546	1551	1556	1561	1566	1571	1576	1581	1586	1591	1596	1601	1606	1611	1616	1621	1626	1631	1636	1641	1646	1651	1656	1661	1666	1671	1676	1681	1686	1691	1696	1701	1706	1711	1716	1721	1726	1731	1736	1741	1746	1751	1756	1761	1766	1771	1776	1781	1786	1791	1796	1801	1806	1811	1816	1821	1826	1831	1836	1841	1846	1851	1856	1861	1866	1871	1876	1881	1886	1891	1896	1901	1906	1911	1916	1921	1926	1931	1936	1941	1946	1951	1956	1961	1966	1971	1976	1981	1986	1991	1996	2001	2006	2011	2016	2021	2026	2031	2036	2041	2046	2051	2056	2061	2066	2071	2076	2081	2086	2091	2096	2101	2106	2111	2116	2121	2126	2131	2136	2141	2146	2151	2156	2161	2166	2171	2176	2181	2186	2191	2196	2201	2206	2211	2216	2221	2226	2231	2236	2241	2246	2251	2256	2261	2266	2271	2276	2281	2286	2291	2296	2301	2306	2311	2316	2321	2326	2331	2336	2341	2346	2351	2356	2361	2366	2371	2376	2381	2386	2391	2396	2401	2406	2411	2416	2421	2426	2431	2436	2441	2446	2451	2456	2461	2466	2471	2476	2481	2486	2491	2496	2501	2506	2511	2516	2521	2526	2531	2536	2541	2546	2551	2556	2561	2566	2571	2576	2581	2586	2591	2596	2601	2606	2611	2616	2621	2626	2631	2636	2641	2646	2651	2656	2661	2666	2671	2676	2681	2686	2691	2696	2701	2706	2711	2716	2721	2726	2731	2736	2741	2746	2751	2756	2761	2766	2771	2776	2781	2786	2791	2796	2801	2806	2811	2816	2821	2826	2831	2836	2841	2846	2851	2856	2861	2866	2871	2876	2881	2886	2891	2896	2901	2906	2911	2916	2921	2926	2931	2936	2941	2946	2951	2956	2961	2966	2971	2976	2981	2986	2991	2996	3001	3006	3011	3016	3021	3026	3031	3036	3041	3046	3051	3056	3061	3066	3071	3076	3081	3086	3091	3096	3101	3106	3111	3116	3121	3126	3131	3136	3141	3146	3151	3156	3161	3166	3171	3176	3181	3186	3191	3196	3201	3206	3211	3216	3221	3226	3231	3236	3241	3246	3251	3256	3261	3266	3271	3276	3281	3286	3291	3296	3301	3306	3311	3316	3321	3326	3331	3336	3341	3346	3351	3356	3361	3366	3371	3376	3381	3386	3391	3396	3401	3406	3411	3416	3421	3426	3431	3436	3441	3446	3451	3456	3461	3466	3471	3476	3481	3486	3491	3496	3501	3506	3511	3516	3521	3526	3531	3536	3541	3546	3551	3556	3561	3566	3571	3576	3581	3586	3591	3596	3601	3606	3611	3616	3621	3626	3631	3636	3641	3646	3651	3656	3661	3666	3671	3676	3681	3686	3691	3696	3701	3706	3711	3716	3721	3726	3731	3736	3741	3746	3751	3756	3761	3766	3771	3776	3781	3786	3791	3796	3801	3806	3811	3816	3821	3826	3831	3836	3841	3846	3851	3856	3861	3866	3871	3876	3881	3886	3891	3896	3901	3906	3911	3916	3921	3926	3931	3936	3941	3946	3951	3956	3961	3966	3971	3976	3981	3986	3991	3996	4001	4006	4011	4016	4021	4026	4031	4036	4041	4046	4051	4056	4061	4066	4071	4076	4081	4086	4091	4096	4101	4106	4111	4116	4121	4126	4131	4136	4141	4146	4151	4156	4161	4166	4171	4176	4181	4186	4191	4196	4201	4206	4211	4216	4221	4226	4231	4236	4241	4246	4251	4256	4261	4266	4271	4276	4281	4286	4291	4296	4301	4306	4311	4316	4321	4326	4331	4336	4341	4346	4351	4356	4361	4366	4371	4376	4381	4386	4391	4396	4401	4406	4411	4416	4421	4426	4431	4436	4441	4446	4451	4456	4461	4466	4471	4476	4481	4486	4491	4496	4501	4506	4511	4516	4521	4526	4531	4536	4541	4546	4551	4556	4561	4566	4571	4576	4581	4586	4591	4596	4601	4606	4611	4616	4621	4626	4631	4636	4641	4646	4651	4656	4661	4666	4671	4676	4681	4686	4691	4696	4701	4706	4711	4716	4721	4726	4731	4736	4741	4746	4751	4756	4761	4766	4771	4776	4781	4786	4791	4796	4801	4806	4811	4816	4821	4826	4831	4836	4841	4846	4851	4856	4861	4866	4871	4876	4881	4886	4891	4896	4901	4906	4911	4916	4921	4926	4931	4936	4941	4946	4951	4956	4961	4966	4971	4976	4981	4986	4991	4996	5001	5006	5011	5016	5021	5026	5031	5036	5041	5046	5051	5056	5061	5066	5071	5076	5081	5086	5091	5096	5101	5106	5111	5116	5121	5126	5131	5136	5141	5146	5151	5156	5161	5166	5171	5176	5181	5186	5191	5196	5201	5206	5211	5216	5221	5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**Alley South of Front
Between Barlow and Rose**

Direction 1, Direction 2		1	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number
Start	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Speed	in Pace
Time	20	25	30	35	40	45	50	55	60	65	70	75	999			
08/07/18	6	3	1	0	0	0	0	0	0	0	0	0	0	12	16-25	5
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	6	7-16	3
02:00	3	1	0	0	0	0	0	0	0	0	0	0	0	5	11-20	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	3	1	0	0	0	0	0	0	0	0	0	0	0	4	*	2
05:00	1	1	1	0	0	0	0	0	0	0	0	0	0	4	13-22	2
06:00	3	2	5	0	0	0	0	0	0	0	0	0	0	11	16-25	7
07:00	14	19	8	3	1	0	0	0	0	0	0	0	0	59	16-25	33
08:00	16	31	14	3	1	0	0	0	0	0	0	0	0	91	16-25	57
09:00	16	17	4	2	0	0	0	0	0	0	0	0	0	55	16-25	33
10:00	18	11	16	6	1	0	0	0	0	0	0	0	0	52	16-25	27
11:00	29	21	26	9	1	0	0	0	0	0	0	0	0	86	16-25	47
12 PM	52	37	15	7	0	0	0	0	0	0	0	0	0	111	11-20	54
13:00	36	24	28	10	3	0	0	0	0	0	0	0	0	101	16-25	52
14:00	29	22	25	8	4	0	0	0	0	0	0	0	0	88	16-25	47
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	231	183	182	17	2	0	0	0	0	0	0	0	0	685		
Percent	33.7%	26.7%	26.6%	2.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	11:00	08:00	08:00	07:00	07:00									08:00		
Vol.	29	31	26	3	1									91		
PM Peak	12:00	13:00	13:00	14:00										12:00		
Vol.	52	37	28	4										111		
Total	525	420	385	36	5	1	0	0	0	0	0	0	0	1508		
Percent	34.8%	27.9%	25.5%	2.4%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
15th Percentile : 6 MPH 50th Percentile : 17 MPH 85th Percentile : 24 MPH 95th Percentile : 28 MPH																
10 MPH Pace Speed : 16-25 MPH Number in Pace : 805 Percent in Pace : 53.4% Number of Vehicles > 25 MPH : 178 Percent of Vehicles > 25 MPH : 11.8% Mean Speed(Average) : 17 MPH																

**Alley South of Front
Between Barlow and Rose**

Start Time	8/6/2018 Mon	8/7/2018 Tue	8/8/2018 Wed	8/9/2018 Thu	8/10/2018 Fri	Weekday Average	8/11/2018 Sat	8/12/2018 Sun
12:00 AM	*	12	*	*	*	12	*	*
01:00	*	6	*	*	*	6	*	*
02:00	*	5	*	*	*	5	*	*
03:00	*	0	*	*	*	0	*	*
04:00	*	4	*	*	*	4	*	*
05:00	*	4	*	*	*	4	*	*
06:00	*	11	*	*	*	11	*	*
07:00	*	59	*	*	*	59	*	*
08:00	*	91	*	*	*	91	*	*
09:00	*	55	*	*	*	55	*	*
10:00	49	52	*	*	*	50	*	*
11:00	77	86	*	*	*	82	*	*
12:00 PM	96	111	*	*	*	104	*	*
01:00	78	101	*	*	*	90	*	*
02:00	76	88	*	*	*	82	*	*
03:00	76	*	*	*	*	76	*	*
04:00	101	*	*	*	*	101	*	*
05:00	81	*	*	*	*	81	*	*
06:00	57	*	*	*	*	57	*	*
07:00	46	*	*	*	*	46	*	*
08:00	34	*	*	*	*	34	*	*
09:00	25	*	*	*	*	25	*	*
10:00	13	*	*	*	*	13	*	*
11:00	14	*	*	*	*	14	*	*
Total	823	685	0	0	0		0	0
Percentage	74.7%	62.2%	0.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	11:00	08:00	-	-	-	-	-	-
Vol.	77	91	-	-	-	-	-	-
PM Peak	16:00	12:00	-	-	-	-	-	-
Vol.	101	111	-	-	-	-	-	-
Total		685	0					