
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Abhishek Deora, Seasonal Engineering Aide
DATE: Thursday, June 13th, 2017
SUBJECT: 24 Hour Speed and Volume of 9th St Btw Wadsworth St and Pine St

City Engineering performed a 24 hour speed study on Ninth St between Wadsworth St and Pine St beginning on Tuesday, June 13th, 2017 concluded Thursday, June 13th, 2017. This memo is to formalize City Engineering's initial data observations and findings with to the speed statistics and volume of vehicular traffic Ninth St.

The data was gathered using a JAMAR Radar Recorder, this data recorder collects both vehicle speed and volume using radar sensors in both Westbound and Eastbound lanes. The raw data compiled and analyzed using TraxPro and reported vehicle speed count for every hour during the study in the increments of 5 miles per hour. The TraxPro software also compiled a report to be sent Traverse City Police Department to evaluate the possible percentage of enforceable violations. This data is organized into a small colored meter where red means there is a high enforcement potential and green equates to a low amount of speed infractions are occurring. For this report, the enforceable minimum speed a vehicle would need to be traveling is 5 miles per hour over the posted speed limit of 25 miles per hour.

During this 24 hour study, 1297 vehicles were recorded. The average (mean) speed of the 1297 vehicles is 24 miles per hour, with 46.8% of all vehicles traveling at speeds greater than the posted limit of 25 miles per hour. Giving motorist an extra 5 miles per hour over the posted speed limit for enforcement tolerance, the number of vehicles speeding is 11.8%.

Summary (Combined):

- **Mean Speed:** 24 MPH
- **Number of Vehicles above Posted Speed Limit** 46.8%
- **85th Percentile of Speed:** 29 MPH
- **95th Percentile of Speed:** 33 MPH

Enclosed:

Detailed TraxPro Speed Reports (Combined and Directional)
TraxPro Police Enforcement Reports

9th St
Btw Wadsworth St and Pine St
Speed

Site Code: 00000001
Station ID:
9th St
Btw Wadsworth St and Pine St
Latitude: 0' 0.0000 South

A=Eastbound

Start Time	1	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	999			
07/11/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	1	2	11	4	1	1	0	0	0	0	0	0	0	0	20	20-29	15
15:00	2	3	9	9	1	0	0	0	0	0	0	0	0	0	24	21-30	18
16:00	3	3	10	7	2	0	0	0	0	0	0	0	0	0	25	21-30	17
17:00	3	2	10	7	1	0	0	0	0	0	0	0	0	0	23	21-30	17
18:00	1	2	5	1	3	0	0	0	0	0	0	0	0	0	12	16-25	7
19:00	2	2	9	3	1	0	0	0	0	0	0	0	0	0	17	19-28	12
20:00	3	1	4	2	1	0	0	0	0	0	0	0	0	0	11	21-30	6
21:00	0	2	3	1	1	0	0	0	0	0	0	0	0	0	7	16-25	5
22:00	0	0	2	3	0	0	0	0	0	0	0	0	0	0	5	21-30	5
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	15	17	63	37	11	1	0	0	0	0	0	0	0	0	144		
Percent	10.4%	11.8%	43.8%	25.7%	7.6%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	15:00	14:00	15:00	18:00	14:00									16:00		
	3	3	11	9	3	1									25		

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Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
07/12/17	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	14-23	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	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	0	0	*	*
05:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
06:00	0	1	3	2	1	0	1	0	0	0	0	0	0	0	8	21-30	5
07:00	2	4	14	15	1	0	0	0	0	0	0	0	0	0	36	21-30	29
08:00	3	12	42	30	6	0	0	0	0	0	0	0	0	0	93	21-30	72
09:00	2	8	39	41	6	1	0	0	0	0	0	0	0	0	97	21-30	80
10:00	0	3	30	57	10	0	0	0	0	0	0	0	0	0	100	21-30	87
11:00	1	6	25	35	11	0	0	0	0	0	0	0	0	0	78	21-30	60
12 PM	3	2	11	7	2	1	0	0	0	0	0	0	0	0	26	21-30	18
13:00	3	8	18	8	1	0	0	0	0	0	0	0	0	0	38	21-30	26
14:00	6	7	13	6	3	0	0	0	0	0	0	0	0	0	35	16-25	20
15:00	0	4	12	8	4	1	0	0	0	0	0	0	0	0	29	21-30	20
16:00	0	2	10	23	4	0	0	0	0	0	0	0	0	0	39	21-30	33
17:00	2	7	9	10	2	1	0	0	0	0	0	0	0	0	31	21-30	19
18:00	7	3	10	6	0	0	0	0	0	0	0	0	0	0	26	21-30	16
19:00	0	0	6	5	0	0	0	0	0	0	0	0	0	0	11	21-30	11
20:00	1	5	5	2	0	0	0	0	0	0	0	0	0	0	13	16-25	10
21:00	1	3	1	0	0	0	0	0	0	0	0	0	0	0	5	16-25	4
22:00	2	1	3	1	0	0	0	0	0	0	0	0	0	0	7	21-30	4
23:00	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3	10-19	2
Total	33	78	252	259	51	5	1	0	0	0	0	0	0	0	679		
Percent	4.9%	11.5%	37.1%	38.1%	7.5%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	08:00	10:00	11:00	00:00	06:00								10:00		
Vol.	3	12	42	57	11	1	1								100		
PM Peak	18:00	13:00	13:00	16:00	15:00	12:00									16:00		
Vol.	7	8	18	23	4	1									39		

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Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
07/11/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	4	3	20	24	6	0	0	0	0	0	0	0	0	0	57	21-30	44
15:00	1	3	22	15	6	1	0	0	0	0	0	0	0	0	48	21-30	37
16:00	4	2	14	31	10	1	0	1	0	0	0	0	0	0	63	21-30	45
17:00	3	3	20	26	12	1	0	0	0	0	0	0	0	0	65	21-30	46
18:00	2	1	19	20	14	0	1	0	0	0	0	0	0	0	57	21-30	39
19:00	2	2	8	8	6	0	0	0	0	0	0	0	0	0	26	21-30	16
20:00	1	5	15	15	8	0	0	0	0	0	0	0	0	0	44	21-30	30
21:00	1	1	8	15	3	0	0	0	0	0	0	0	0	0	28	21-30	23
22:00	1	0	4	9	3	0	0	0	0	0	0	0	0	0	17	21-30	13
23:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	24-33	2
Total	19	20	130	164	69	3	1	1	0	0	0	0	0	0	407		
Percent	4.7%	4.9%	31.9%	40.3%	17.0%	0.7%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak																	
Vol.																	
PM Peak	14:00	20:00	15:00	16:00	18:00	15:00	18:00	16:00							17:00		
Vol.	4	5	22	31	14	1	1	1							65		

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Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
07/12/17	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	*	1
01:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	20-29	4
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	19-28	2
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
05:00	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4	15-24	3
06:00	0	0	3	3	1	0	0	0	0	0	0	0	0	0	7	21-30	6
07:00	1	2	5	4	3	0	0	0	0	0	0	0	0	0	15	20-29	9
08:00	1	4	11	1	3	0	0	0	0	0	0	0	0	0	20	16-25	15
09:00	6	5	15	13	3	0	0	0	0	0	0	0	0	0	42	21-30	28
10:00	6	9	21	16	4	0	0	0	0	0	0	0	0	0	56	21-30	37
11:00	5	0	17	22	9	0	0	0	0	0	0	0	0	0	53	21-30	39
12 PM	5	11	22	20	11	0	0	0	0	0	0	0	0	0	69	21-30	42
13:00	3	12	33	19	4	0	0	0	0	0	0	0	0	0	71	21-30	52
14:00	3	10	22	9	7	1	0	0	0	0	0	0	0	0	52	16-25	32
15:00	2	8	24	20	13	2	1	0	0	0	0	0	0	0	70	21-30	44
16:00	2	2	23	25	16	2	0	0	0	0	0	0	0	0	70	21-30	48
17:00	7	5	21	33	12	0	0	0	0	0	0	0	0	0	78	21-30	54
18:00	2	3	27	24	1	0	0	0	0	0	0	0	0	0	57	21-30	51
19:00	2	2	14	16	2	0	0	0	0	0	0	0	0	0	36	21-30	30
20:00	1	8	9	12	3	0	0	0	0	0	0	0	0	0	33	21-30	21
21:00	1	6	12	10	2	0	0	0	0	0	0	0	0	0	31	21-30	22
22:00	1	1	6	0	1	0	0	0	0	0	0	0	0	0	9	16-25	7
23:00	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4	15-24	2
Total	52	89	292	253	95	5	1	0	0	0	0	0	0	0	787		
Percent	6.6%	11.3%	37.1%	32.1%	12.1%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	10:00	10:00	11:00	11:00										10:00		
Vol.	6	9	21	22	9										56		
PM Peak	17:00	13:00	13:00	17:00	16:00	15:00	15:00								17:00		
Vol.	7	12	33	33	16	2	1								78		

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Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
07/11/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	5	5	31	28	7	1	0	0	0	0	0	0	0	0	77	21-30	59
15:00	3	6	31	24	7	1	0	0	0	0	0	0	0	0	72	21-30	55
16:00	7	5	24	38	12	1	0	1	0	0	0	0	0	0	88	21-30	62
17:00	6	5	30	33	13	1	0	0	0	0	0	0	0	0	88	21-30	63
18:00	3	3	24	21	17	0	1	0	0	0	0	0	0	0	69	21-30	45
19:00	4	4	17	11	7	0	0	0	0	0	0	0	0	0	43	21-30	28
20:00	4	6	19	17	9	0	0	0	0	0	0	0	0	0	55	21-30	36
21:00	1	3	11	16	4	0	0	0	0	0	0	0	0	0	35	21-30	27
22:00	1	0	6	12	3	0	0	0	0	0	0	0	0	0	22	21-30	18
23:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	24-33	2
Total	34	37	193	201	80	4	1	1	0	0	0	0	0	0	551		
Percent	6.2%	6.7%	35.0%	36.5%	14.5%	0.7%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	15:00	14:00	16:00	18:00	14:00	18:00	16:00							16:00		
	7	6	31	38	17	1	1	1							88		

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	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
07/12/17	1	0	1	1	0	1	0	0	0	0	0	0	0	0	4	19-28	2
01:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	20-29	4
02:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	20-29	3
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
05:00	0	1	2	2	0	0	0	0	0	0	0	0	0	0	5	19-28	4
06:00	0	1	6	5	2	0	1	0	0	0	0	0	0	0	15	21-30	11
07:00	3	6	19	19	4	0	0	0	0	0	0	0	0	0	51	21-30	38
08:00	4	16	53	31	9	0	0	0	0	0	0	0	0	0	113	21-30	84
09:00	8	13	54	54	9	1	0	0	0	0	0	0	0	0	139	21-30	108
10:00	6	12	51	73	14	0	0	0	0	0	0	0	0	0	156	21-30	124
11:00	6	6	42	57	20	0	0	0	0	0	0	0	0	0	131	21-30	99
12 PM	8	13	33	27	13	1	0	0	0	0	0	0	0	0	95	21-30	60
13:00	6	20	51	27	5	0	0	0	0	0	0	0	0	0	109	21-30	78
14:00	9	17	35	15	10	1	0	0	0	0	0	0	0	0	87	16-25	52
15:00	2	12	36	28	17	3	1	0	0	0	0	0	0	0	99	21-30	64
16:00	2	4	33	48	20	2	0	0	0	0	0	0	0	0	109	21-30	81
17:00	9	12	30	43	14	1	0	0	0	0	0	0	0	0	109	21-30	73
18:00	9	6	37	30	1	0	0	0	0	0	0	0	0	0	83	21-30	67
19:00	2	2	20	21	2	0	0	0	0	0	0	0	0	0	47	21-30	41
20:00	2	13	14	14	3	0	0	0	0	0	0	0	0	0	46	21-30	28
21:00	2	9	13	10	2	0	0	0	0	0	0	0	0	0	36	19-28	23
22:00	3	2	9	1	1	0	0	0	0	0	0	0	0	0	16	16-25	11
23:00	2	2	2	1	0	0	0	0	0	0	0	0	0	0	7	16-25	4
Total	85	167	544	512	146	10	2	0	0	0	0	0	0	0	1466		
Percent	5.8%	11.4%	37.1%	34.9%	10.0%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	08:00	09:00	10:00	11:00	00:00	06:00								10:00		
Vol.	8	16	54	73	20	1	1								156		
PM Peak	14:00	13:00	13:00	16:00	16:00	15:00	15:00								13:00		
Vol.	9	20	51	48	20	3	1								109		

9th St
Btw Wadsworth St and Pine St
Volume

Site Code: 0000001
Station ID:

Latitude: 0' 0.0000 South

Start Time	10-Jul-17 Mon	11-Jul-17 Tue	12-Jul-17 Wed	13-Jul-17 Thu	14-Jul-17 Fri	Weekday Average	15-Jul-17 Sat	16-Jul-17 Sun
12:00 AM	*	*	4	15	*	10	*	*
01:00	*	*	4	36	*	20	*	*
02:00	*	*	3	3	*	3	*	*
03:00	*	*	1	2	*	2	*	*
04:00	*	*	1	3	*	2	*	*
05:00	*	*	5	5	*	5	*	*
06:00	*	*	15	14	*	14	*	*
07:00	*	*	51	60	*	56	*	*
08:00	*	*	113	84	*	98	*	*
09:00	*	*	139	20	*	80	*	*
10:00	*	*	156	1	*	78	*	*
11:00	*	*	131	*	*	131	*	*
12:00 PM	*	*	95	*	*	95	*	*
01:00	*	*	109	*	*	109	*	*
02:00	*	77	87	*	*	82	*	*
03:00	*	72	99	*	*	86	*	*
04:00	*	88	109	*	*	98	*	*
05:00	*	88	109	*	*	98	*	*
06:00	*	69	83	*	*	76	*	*
07:00	*	43	47	*	*	45	*	*
08:00	*	55	46	*	*	50	*	*
09:00	*	35	36	*	*	36	*	*
10:00	*	22	16	*	*	19	*	*
11:00	*	2	7	*	*	4	*	*
Total	0	551	1466	243	0		0	0
Percentage	0.0%	42.5%	113.0%	18.7%	0.0%		0.0%	0.0%
AM Peak	-	-	10:00	08:00	-	-	-	-
Vol.	-	-	156	84	-	-	-	-
PM Peak	-	16:00	13:00	-	-	-	-	-
Vol.	-	88	109	-	-	-	-	-
Total		551	1466					

Speed Enforcement Evaluator

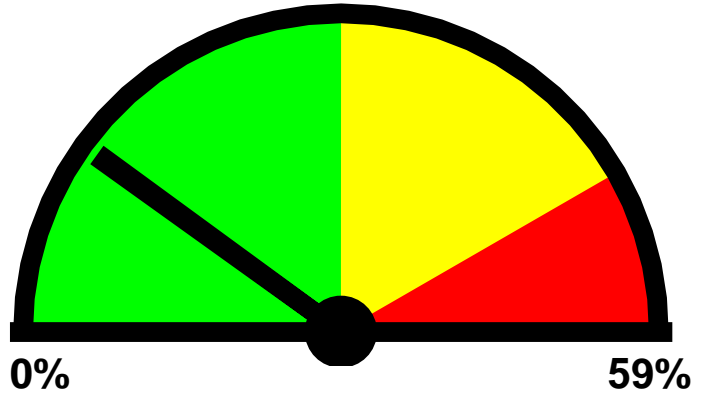
Location:
9th St

Total Percentage of Enforceable Violations

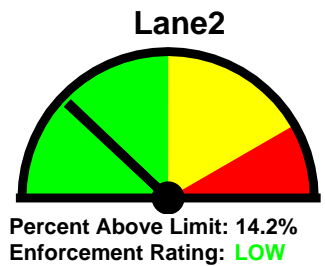
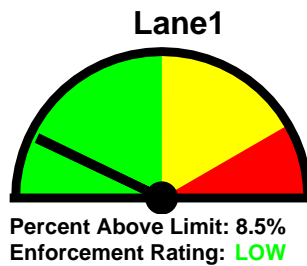
Closest Cross Street:
Btw Wadsworth St and Pine St

Analysis Dates:
Tuesday, July 11, 2017
Thursday, July 13, 2017

Equipment Used:



0% **59%**
Posted Speed Limit: 25 MPH
Enforcement Tolerance: 5 MPH
Enforcement Limit: 31 MPH & Up
Percentage Above Limit: 11.8%
Enforcement Rating: **LOW**



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
0	14	118	240	816	792	244	18	3	1	0	0	0	0

85 percentile = 29

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
0	9	37	105	369	334	71	7	1	0	0	0	0	0

85 percentile = 28

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
0	5	81	135	447	458	173	11	2	1	0	0	0	0

85 percentile = 29

Best Times for Enforcement

Location:
9th St
Closest Cross Street:
 Btw Wadsworth St and Pine St

Analysis Dates:
 Tuesday, July 11, 2017
 Thursday, July 13, 2017

Sun

Mon

Tue

Combined: 5 PM to 7 PM
 Lane1: 5 PM to 7 PM
 Lane2: 5 PM to 7 PM

Wed

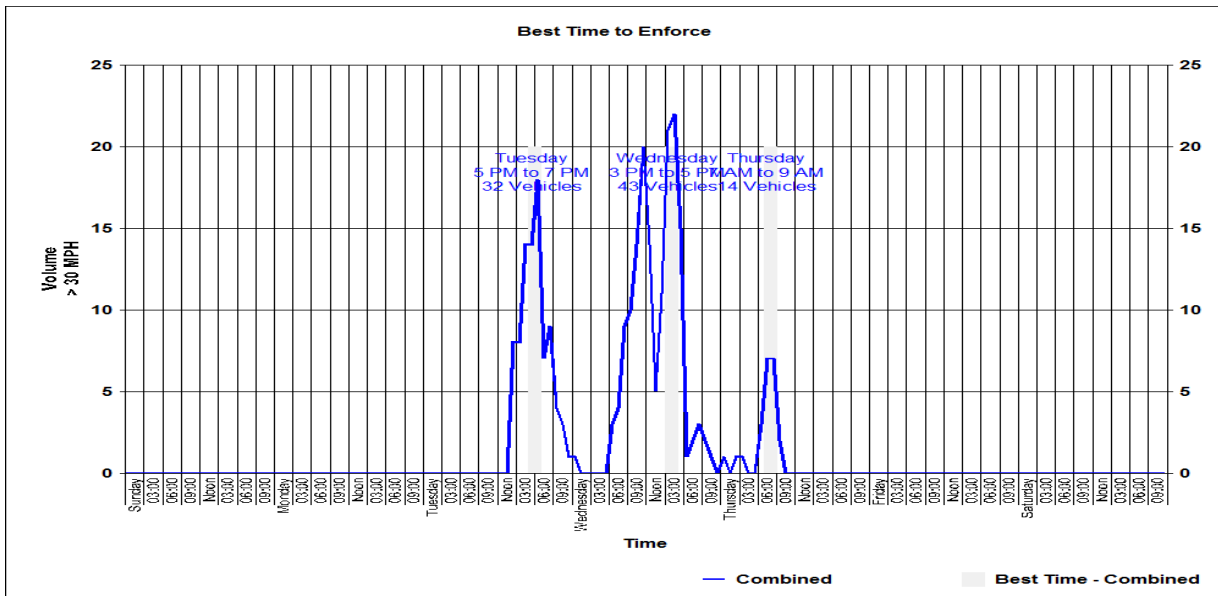
Combined: 3 PM to 5 PM
 Lane1: 10 AM to Noon
 Lane2: 3 PM to 5 PM

Thu

Combined: 7 AM to 9 AM
 Lane1: 7 AM to 9 AM
 Lane2: 7 AM to 9 AM

Fri

Sat



9th St
Btw Wadsworth St and Pine St
Speed

