
Memorandum

The City of Traverse City
Engineering Department



TO: Transportation Committee (Per Slabtown)
FROM: Matthew Sexton, Seasonal Engineering Aide *M. J.*
DATE: Wednesday, June 27th, 2018
SUBJECT: 24 Hour Speed and Volume of Randolph Street, Near Monroe Street

City Engineering performed a 24 hour speed study on Randolph Street, Near Monroe Street beginning on Monday, June 25th, 2018 and concluding on Tuesday, June 26th, 2018. This memo is to formalize City Engineering's initial data observations and findings with to the speed statistics and volume of vehicular traffic on Randolph Street.

The data was gathered using a JAMAR Radar Recorder; this data recorder collects both vehicle speed and volume using radar sensors in both Eastbound and Westbound 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, 1060 vehicles were recorded. The average (mean) speed of the 1060 vehicles was 19 miles per hour, with 24.8% 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 was 5.9%.

Summary (Combined):

- **Mean Speed:** 19 MPH
- **Number of Vehicles above Posted Speed Limit** 24.8%
- **85th Percentile of Speed:** 27 MPH
- **95th Percentile of Speed:** 29 MPH

Enclosed:

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

Randolph St between Monroe and Madison

Best Times for Enforcement

Location:
Randolph Street
Closest Cross Street:
 Monroe Street

Analysis Dates:
 Monday, June 25, 2018
 Wednesday, June 27, 2018

Requested By:
 Slabtown

Sun

Mon

Combined: 9 AM to 11 AM

Lane1: Noon to 2 PM

Lane2: 9 AM to 11 AM

Tue

Combined: 6 AM to 8 AM

Lane1: 6 AM to 8 AM

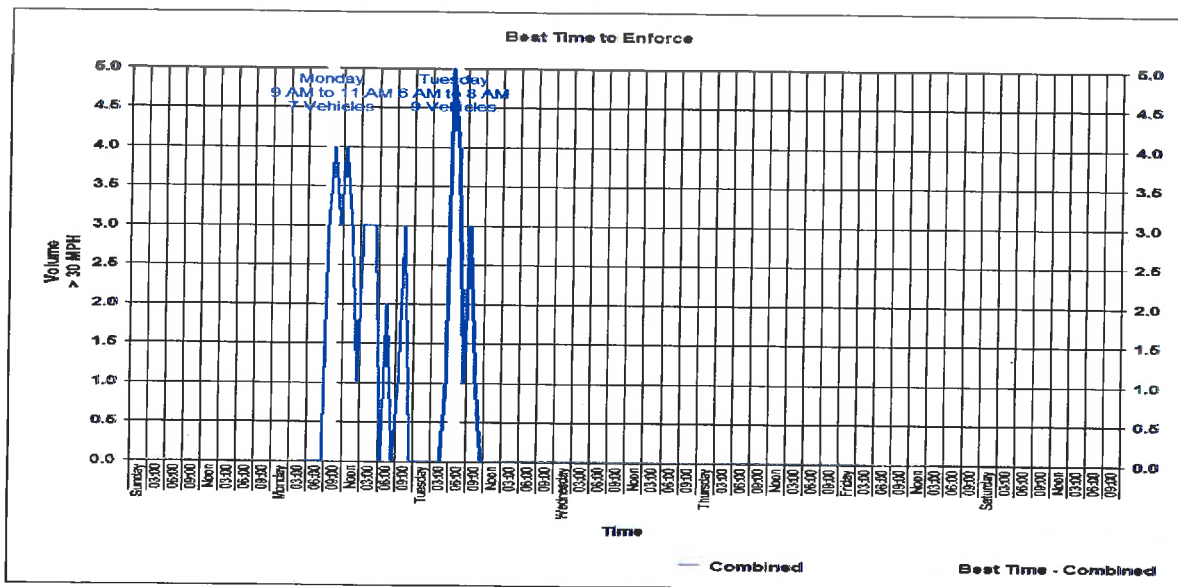
Lane2: 8 AM to 10 AM

Wed

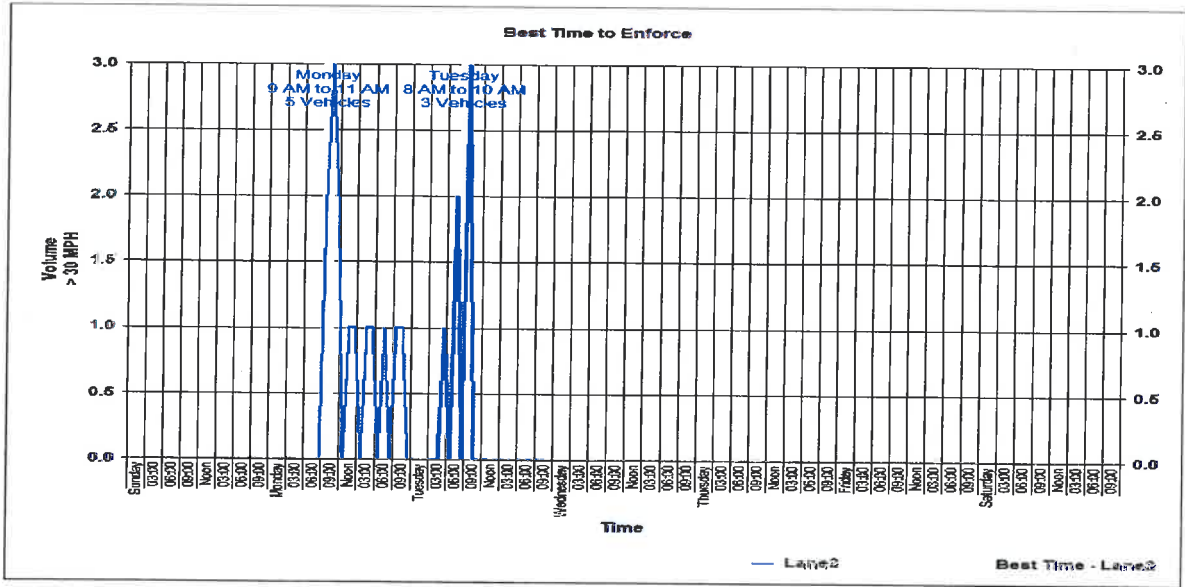
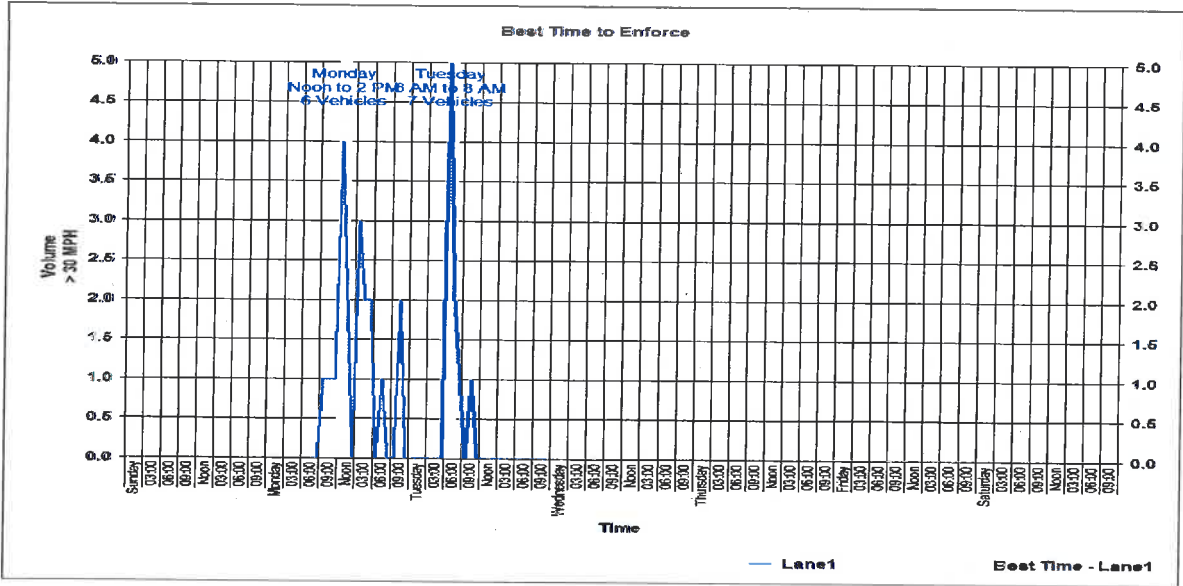
Thu

Fri

Sat



Randolph St between Monroe and Madison



Randolph St between Monroe and Madison

Speed Enforcement Evaluator

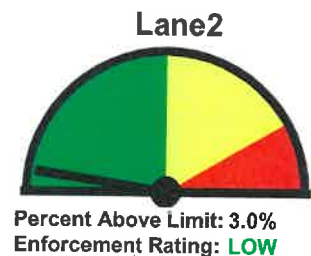
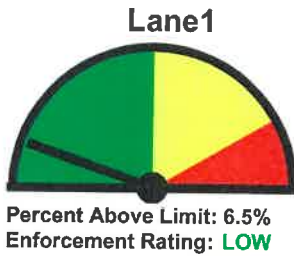
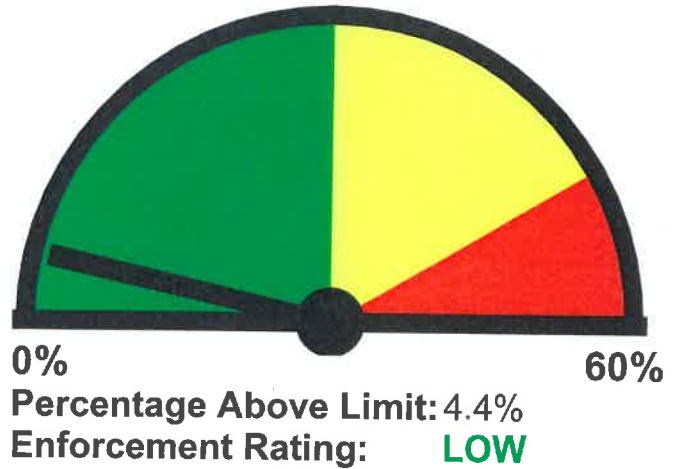
Location:
Randolph Street

Total Percentage of
Enforceable Violations

Closest Cross Street:
Monroe Street

Analysis Dates:
Monday, June 25, 2018
Wednesday, June 27, 2018

Requested By:
Slabtown



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 | 39 | 288 | 182 | 313 | 223 | 41 | 5 | 0 | 0 | 1 | 0 | 0 | 1 |

85 percentile = 26

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 | 25 | 71 | 54 | 140 | 111 | 22 | 4 | 0 | 0 | 1 | 0 | 0 | 1 |

85 percentile = 27

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 | 14 | 217 | 128 | 173 | 112 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

85 percentile = 26

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Direction 1 | Start Time | 15 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | Total | Pace Speed | Number in Pace | |
|-------------|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|------------|----------------|---|
| 06/25/18 | 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 10:00 | 8 | 3 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 21-30 | 7 | |
| | 11:00 | 8 | 7 | 18 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 21-30 | 26 | |
| | 12 PM | 9 | 3 | 15 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 21-30 | 24 | |
| | 13:00 | 10 | 3 | 6 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 21-30 | 14 | |
| | 14:00 | 3 | 3 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 20-29 | 15 | |
| | 15:00 | 10 | 2 | 9 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 21-30 | 19 | |
| | 16:00 | 6 | 6 | 15 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 21-30 | 24 | |
| | 17:00 | 7 | 6 | 10 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 21-30 | 24 | |
| | 18:00 | 9 | 1 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 21-30 | 16 | |
| | 19:00 | 4 | 1 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 21-30 | 7 | |
| | 20:00 | 9 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 20-29 | 7 | |
| | 21:00 | 2 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 16-25 | 9 | |
| | 22:00 | 5 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 21-30 | 5 | |
| | 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | |
| Total | | 90 | 41 | 112 | 83 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 | | | |
| Percent | | 26.2% | 11.9% | 32.6% | 24.1% | 4.9% | 0.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | | |
| AM Peak | 10:00 | 11:00 | 11:00 | 11:00 | 11:00 | 10:00 | | | | | | | | | | | | | |
| Vol. | 8 | 7 | 18 | 8 | 1 | | | | | | | | | | | 11:00 | | | |
| PM Peak | 13:00 | 16:00 | 12:00 | 17:00 | 12:00 | 12:00 | 12:00 | | | | | | | | | 42 | | | |
| Vol. | 10 | 6 | 15 | 14 | 3 | 1 | | | | | | | | | | 12:00 | | | |
| | | | | | | | | | | | | | | | | 40 | | | |

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Direction 1 | 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 | 999 | | | |
| 06/26/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 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 | 0 | 0 | * | * |
| 03:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | * |
| 04:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | * |
| 05:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | * |
| 06:00 | 4 | 3 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | * | * |
| 07:00 | 7 | 4 | 4 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 16-25 | 4 |
| 08:00 | 6 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 21-30 | 12 |
| 09:00 | 1 | 1 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 21-30 | 6 |
| 10:00 | 3 | 4 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 21-30 | 15 |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 14 | 21-30 | 6 |
| 12 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 14:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 15:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 16:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 17:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 18:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 21:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 22:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 23:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Total | 24 | 13 | 19 | 22 | 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 87 | | * |
| Percent | 27.6% | 14.9% | 21.8% | 25.3% | 5.7% | 2.3% | 0.0% | 0.0% | 1.1% | 0.0% | 0.0% | 0.0% | 0.0% | 1.1% | | | * |
| AM Peak | 07:00 | 07:00 | 09:00 | 07:00 | 06:00 | 06:00 | | | 06:00 | | | | | 06:00 | | | * |
| Vol. | 7 | 4 | 10 | 8 | 2 | 1 | | | 1 | | | | | 1 | | | * |
| PM Peak | | | | | | | | | | | | | | | | | * |
| Vol. | | | | | | | | | | | | | | | | | * |

| Total | 114 | 54 | 131 | 105 | 22 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 87 | | |
|-------------------|-------|-------|-------|-------|--------|------|------|------|------|------|------|------|------|------|------|--|--|
| Percent | 26.5% | 12.5% | 30.4% | 24.4% | 5.1% | 0.7% | 0.0% | 0.0% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 1.1% | | |
| 15th Percentile : | | | | | 8 MPH | | | | | | | | | | | | |
| 50th Percentile : | | | | | 21 MPH | | | | | | | | | | | | |
| 85th Percentile : | | | | | 28 MPH | | | | | | | | | | | | |
| 95th Percentile : | | | | | 31 MPH | | | | | | | | | | | | |

Stats 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 236
 Percent in Pace : 54.8%
 Number of Vehicles > 25 MPH : 132
 Percent of Vehicles > 25 MPH : 30.6%
 Mean Speed(Average) : 20 MPH

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Direction | Start Time | 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 | | | | | |
|-------------|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------|----------------|------|------|------|------|--|
| Direction 2 | 06/26/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | | | | | |
| | 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | | | | | |
| | 03:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * | | | | | |
| | 04:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 05:00 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 06:00 | 7 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 07:00 | 14 | 5 | 7 | 7 | 8 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 08:00 | 18 | 10 | 15 | 15 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 09:00 | 27 | 9 | 5 | 5 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 10:00 | 11 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| | 12 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| | 13:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| | 14:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 15:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 16:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 17:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 18:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 19:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 20:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 21:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 22:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 23:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Total | 78 | 24 | 33 | 33 | 26 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Percent | 46.7% | 14.4% | 19.8% | 19.8% | 15.6% | 3.6% | 3.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | |
| | AM Peak | 09:00 | 08:00 | 08:00 | 08:00 | 07:00 | 09:00 | 09:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vol. | 27 | 10 | 15 | 15 | 8 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PM Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vol. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Direction | Start Time | 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 | | | | | | |
|-------------------|------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------|----------------|------|------|------|--|--|--|
| Total | 225 | 121 | 159 | 106 | 17 | 17 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Percent | 35.8% | 19.2% | 25.3% | 16.9% | 2.7% | 2.7% | 3.6% | 3.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |
| 15th Percentile : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50th Percentile : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85th Percentile : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95th Percentile : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Stats

10 MPH Pace Speed : 16-25 MPH

Number in Pace : 280

Percent in Pace : 44.5%

Number of Vehicles > 25 MPH : 124

Percent of Vehicles > 25 MPH : 19.7%

Mean Speed(Average) : 18 MPH

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Direction 1, 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 | 999 | | Speed | in Pace |
| 06/25/18 | | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 01:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 02:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 03:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 04:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 05:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 06:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 07:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 08:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 09:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 10:00 | 22 | 8 | 13 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 21-30 | 28 |
| | 11:00 | 22 | 13 | 29 | 16 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 21-30 | 45 |
| | 12 PM | 23 | 12 | 26 | 19 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 21-30 | 45 |
| | 13:00 | 30 | 16 | 26 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 16-25 | 42 |
| | 14:00 | 20 | 19 | 15 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 16-25 | 34 |
| | 15:00 | 25 | 8 | 19 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 21-30 | 32 |
| | 16:00 | 16 | 17 | 25 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 21-30 | 43 |
| | 17:00 | 16 | 10 | 18 | 20 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 21-30 | 38 |
| | 18:00 | 12 | 10 | 22 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 16-25 | 32 |
| | 19:00 | 17 | 7 | 17 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 16-25 | 24 |
| | 20:00 | 18 | 8 | 10 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 21-30 | 22 |
| | 21:00 | 5 | 7 | 15 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 16-25 | 22 |
| | 22:00 | 9 | 3 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1-10 | 6 |
| | 23:00 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 26-35 | 3 |
| | Total | 237 | 138 | 238 | 163 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 806 | | |
| | Percent | 29.4% | 17.1% | 29.5% | 20.2% | 3.5% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |
| | AM Peak | 10:00 | 11:00 | 11:00 | 11:00 | 10:00 | 11:00 | | | | | | | | | 11:00 | | |
| | Vol. | 22 | 13 | 29 | 16 | 4 | 1 | | | | | | | | | 83 | | |
| | PM Peak | 13:00 | 14:00 | 12:00 | 17:00 | 12:00 | 12:00 | | | | | | | | | 13:00 | | |
| | Vol. | 30 | 19 | 26 | 20 | 3 | 1 | | | | | | | | | 89 | | |

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Direction 1, Direction 2 | | | | | | | | | | | | | | | | | | Total | | |
|--------------------------|-------|-------|-------|-------|-------|-------|------|------|-------|------|------|------|------|------|------|------|-------|------------|----------------|--|
| Start Time | 1 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | 76 | 999 | Total | Pace Speed | Number in Pace | |
| 06/26/18 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 0 | * | * | |
| 01:00 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | * | * | |
| 03:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8-17 | 1 | |
| 04:00 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20-29 | 2 | |
| 05:00 | 1 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 21-30 | 6 | |
| 06:00 | 11 | 3 | 4 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 25 | 8-17 | 7 | |
| 07:00 | 21 | 9 | 11 | 16 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 21-30 | 27 | |
| 08:00 | 24 | 11 | 17 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 16-25 | 28 | |
| 09:00 | 28 | 10 | 15 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 16-25 | 25 | |
| 10:00 | 14 | 4 | 3 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 21-30 | 10 | |
| 11:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 12 PM | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 13:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 14:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 15:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 16:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 17:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 18:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 19:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 20:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 21:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 22:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 23:00 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| Total | 102 | 37 | 52 | 48 | 11 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 254 | | * | |
| Percent | 40.2% | 14.6% | 20.5% | 18.9% | 4.3% | 0.8% | 0.0% | 0.0% | 0.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.4% | 0.0% | | | * | |
| AM Peak | 09:00 | 08:00 | 08:00 | 07:00 | 07:00 | 06:00 | | | 06:00 | | | | | | | | | | | |
| Vol. | 28 | 11 | 17 | 16 | 3 | 1 | | | 1 | | | | | | | | | | | |
| PM Peak | | | | | | | | | | | | | | | | | | | | |
| Vol. | | | | | | | | | | | | | | | | | | | | |

| Total | | 15th Percentile : | | 50th Percentile : | | 85th Percentile : | | 95th Percentile : | |
|---------|-------|-------------------|-------|-------------------|-------|-------------------|--------|-------------------|--|
| 339 | 175 | 290 | 211 | 39 | 7 MPH | 20 MPH | 27 MPH | 29 MPH | |
| Percent | 32.0% | 16.5% | 27.4% | 19.9% | 3.7% | 7 MPH | 27 MPH | 29 MPH | |

| Stats | | 10 MPH Pace Speed : | |
|--------------------------------|--------|---------------------|-----|
| Number in Pace : | 501 | 21-30 MPH | 501 |
| Percent in Pace : | 47.3% | | |
| Number of Vehicles > 25 MPH : | 256 | | |
| Percent of Vehicles > 25 MPH : | 24.2% | | |
| Mean Speed(Average) : | 19 MPH | | |

Randolph St between Monroe and Madison

Randolph Street
Monroe Street

| Start Time | 6/25/2018 Mon | 6/26/2018 Tue | 6/27/2018 Wed | 6/28/2018 Thu | 6/29/2018 Fri | Weekday Average | 6/30/2018 Sat | 7/1/2018 Sun |
|------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|-----------------|
| 12:00 AM | * | 0 | * | * | * | 0 | * | * |
| 01:00 | * | 0 | * | * | * | 0 | * | * |
| 02:00 | * | 0 | * | * | * | 0 | * | * |
| 03:00 | * | 2 | * | * | * | 2 | * | * |
| 04:00 | * | 3 | * | * | * | 3 | * | * |
| 05:00 | * | 8 | * | * | * | 8 | * | * |
| 06:00 | * | 25 | * | * | * | 25 | * | * |
| 07:00 | * | 61 | * | * | * | 61 | * | * |
| 08:00 | * | 63 | * | * | * | 63 | * | * |
| 09:00 | * | 63 | * | * | * | 63 | * | * |
| 10:00 | 62 | 29 | * | * | * | 46 | * | * |
| 11:00 | 83 | * | * | * | * | 83 | * | * |
| 12:00 PM | 84 | * | * | * | * | 84 | * | * |
| 01:00 | 89 | * | * | * | * | 89 | * | * |
| 02:00 | 67 | * | * | * | * | 67 | * | * |
| 03:00 | 68 | * | * | * | * | 68 | * | * |
| 04:00 | 79 | * | * | * | * | 79 | * | * |
| 05:00 | 67 | * | * | * | * | 67 | * | * |
| 06:00 | 54 | * | * | * | * | 54 | * | * |
| 07:00 | 50 | * | * | * | * | 50 | * | * |
| 08:00 | 48 | * | * | * | * | 48 | * | * |
| 09:00 | 30 | * | * | * | * | 30 | * | * |
| 10:00 | 20 | * | * | * | * | 20 | * | * |
| 11:00 | 5 | * | * | * | * | 5 | * | * |
| Total | 806 | 254 | 0 | 0 | 0 | | 0 | 0 |
| Percentage | 79.4% | 25.0% | 0.0% | 0.0% | 0.0% | | 0.0% | 0.0% |
| AM Peak | 11:00 | 08:00 | - | - | - | - | - | - |
| Vol. | 83 | 63 | - | - | - | - | - | - |
| PM Peak | 13:00 | - | - | - | - | - | - | - |
| Vol. | 89 | - | - | - | - | - | - | - |
| Total | | 254 | 0 | | | | | |