
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Brogan Beyette, Engineering Intern
DATE: August 8, 2013
SUBJECT: Executive Summary for 2013 Speed Counts

The City of Traverse City Engineering Department conducted 21 on site speed counts during the summer of 2013. Data was recorded at each location for approximately 4 to 7 days.

The Jamar Radar Recorder gathered data for each lane of traffic; one lane north (or east) bound and one lane south (or west) bound. The speeds of each vehicle were recorded in the device and then compiled into TraxPro where the lanes were combined into one report, regardless of direction. The report divided the speeds into groups starting with 1-15 mph and each successive group at 5 mph increments. Each group shows how many vehicles were within that specific range of speed and at what times.

A summary of each location is shown below.

7th St (400 Block)

Thursday, May 23 – Friday, May 24

- Speed Limit: 25 mph
- Average Speed: 23 mph
- Percent \leq 25 mph: 68.7%
- Percent \leq 30 mph: 97.6%
- Total Number of Vehicles: 3,648
- 24-hr ADT Weekday: 2,437 vehicles
- 15th Percentile: 16 mph
- 50th Percentile: 22 mph
- 85th Percentile: 27 mph
- 95th Percentile: 30 mph



Friday, May 31 - Friday, June 7

- Speed Limit: 25 mph
- Average Speed: 21 mph
- Percent \leq 25 mph: 79%
- Percent \leq 30 mph: 98.7%
- Total Number of Vehicles: 11,092
- 24-hr ADT Weekday: 1,794 vehicles
- 24-hr ADT Weekend: 915 vehicles
- 15th Percentile: 13 mph
- 50th Percentile: 21 mph
- 85th Percentile: 26 mph
- 95th Percentile: 29 mph

8th St. (E of Fair St.)

Tuesday, July 23 – Monday, July 29

- Speed Limit: 35 mph
- Average Speed: 36 mph
- Percent \leq 35 mph: 41.7%
- Percent \leq 40 mph: 86.2%
- Total Number of Vehicles: 44,312
- 24-hr ADT Weekday: 8,792 vehicles
- 24-hr ADT Weekend: 6,692 vehicles
- 15th Percentile: 30 mph
- 50th Percentile: 35 mph
- 85th Percentile: 40 mph
- 95th Percentile: 43 mph

8th St. (W of Fern St.)

Monday, July 22 – Monday, July 29

- Speed Limit: 25 mph
- Average Speed: 27 mph
- Percent \leq 25 mph: 28.6%
- Percent \leq 30 mph: 70.2%
- Total Number of Vehicles: 70,168
- 24-hr ADT Weekday: 12,215 vehicles
- 24-hr ADT Weekend: 8,699 vehicles
- 15th Percentile: 20 mph
- 50th Percentile: 27 mph
- 85th Percentile: 32 mph
- 95th Percentile: 35 mph



8th St. (E of Grant St.)

Friday, July 19 – Tuesday, July 23

- Speed Limit: 25 mph
- Average Speed: 29 mph
- Percent \leq 25 mph: 12.1%
- Percent \leq 30 mph: 57.4%
- Total Number of Vehicles: 40,796
- 24-hr ADT Weekday: 8,333 vehicles
- 24-hr ADT Weekend: 12,648 vehicles
- 15th Percentile: 24 mph
- 50th Percentile: 29 mph
- 85th Percentile: 34 mph
- 95th Percentile: 36 mph

8th St. (E of Woodland Dr.)**

Monday, July 29 – Monday, August 5

- Speed Limit: 35 mph
- Average Speed: 35 mph
- Percent \leq 35 mph: 48.9%
- Percent \leq 40 mph: 90.2%
- Total Number of Vehicles: 51,646
- 24-hr ADT Weekday: 8,100 vehicles
- 24-hr ADT Weekend: 6,006 vehicles
- 15th Percentile: 29 mph
- 50th Percentile: 34 mph
- 85th Percentile: 39 mph
- 95th Percentile: 42 mph

Cass St. (at 9th St. Intersection)*

Thursday, June 27 – Wednesday, July 3

- Speed Limit: 25 mph
- Average Speed: 21 mph
- Percent \leq 25 mph: 74.9%
- Percent \leq 30 mph: 97.2%
- Total Number of Vehicles: 54,633
- 24-hr ADT Weekday: 9,499 vehicles
- 24-hr ADT Weekend: 7,997 vehicles
- 15th Percentile: 14 mph
- 50th Percentile: 21 mph
- 85th Percentile: 26 mph
- 95th Percentile: 29 mph



Cass St. (N of 11th St.)*

Tuesday, June 25 – Tuesday, July 2

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent \leq 25 mph: 47.7%
- Percent \leq 30 mph: 93.6%
- Total Number of Vehicles: 73,882
- 24-hr ADT Weekday: 10,793 vehicles
- 24-hr ADT Weekend: 9,010 vehicles
- 15th Percentile: 20 mph
- 50th Percentile: 24 mph
- 85th Percentile: 29 mph
- 95th Percentile: 31 mph

Cass St. (N of 13th St.)

Tuesday, June 18 – Friday, June 21

- Speed Limit: 25 mph
- Average Speed: 21 mph
- Percent \leq 25 mph: 79.8%
- Percent \leq 30 mph: 98.6%
- Total Number of Vehicles: 26,292
- 24-hr ADT Weekday: 9,067 vehicles
- 15th Percentile: 13 mph
- 50th Percentile: 21 mph
- 85th Percentile: 26 mph
- 95th Percentile: 29 mph

Cass St. (at 15th St. Intersection)

Friday, June 21 – Thursday, June 27

- Speed Limit: 25 mph
- Average Speed: 29 mph
- Percent \leq 25 mph: 14.3%
- Percent \leq 30 mph: 58.5%
- Total Number of Vehicles: 50,882
- 24-hr ADT Weekday: 10,361 vehicles
- 24-hr ADT Weekend: 5,888 vehicles
- 15th Percentile: 23 mph
- 50th Percentile: 28 mph
- 85th Percentile: 33 mph
- 95th Percentile: 36 mph

Memorandum

The City of Traverse City
Engineering Department



Cass St. (S of 17th St.)

Tuesday, June 18 – Tuesday, June 25

- Speed Limit: 25 mph
- Average Speed: 33 mph
- Percent \leq 25 mph: 5.7%
- Percent \leq 30 mph: 26.5%
- Total Number of Vehicles: 68,518
- 24-hr ADT Weekday: 11,479 vehicles
- 24-hr ADT Weekend: 6,259 vehicles
- 15th Percentile: 26 mph
- 50th Percentile: 32 mph
- 85th Percentile: 38 mph
- 95th Percentile: 41 mph

Front St. (W of Monroe St.)

Friday, July 12 – Tuesday, July 16

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent \leq 25 mph: 34.3%
- Percent \leq 30 mph: 81.5%
- Total Number of Vehicles: 44,936
- 24-hr ADT Weekday: 14,287 vehicles
- 24-hr ADT Weekend: 7,380 vehicles
- 15th Percentile: 17 mph
- 50th Percentile: 26 mph
- 85th Percentile: 31 mph
- 95th Percentile: 34 mph

Front St. (W of Spruce St.)

Wednesday, July 17 – Monday, July 22

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent \leq 25 mph: 52.9%
- Percent \leq 30 mph: 90.1%
- Total Number of Vehicles: 52,807
- 24-hr ADT Weekday: 13,089 vehicles
- 24-hr ADT Weekend: 7,567 vehicles
- 15th Percentile: 18 mph
- 50th Percentile: 24 mph
- 85th Percentile: 29 mph
- 95th Percentile: 32 mph

Memorandum

The City of Traverse City
Engineering Department



Hastings St. (N of Carver St.)**

Tuesday, July 30 – Monday, August 5

- Speed Limit: 25 mph
- Average Speed: 30 mph
- Percent \leq 25 mph: 10.8%
- Percent \leq 30 mph: 51.5%
- Total Number of Vehicles: 19,494
- 24-hr ADT Weekday: 6,664 vehicles
- 15th Percentile: 24 mph
- 50th Percentile: 29 mph
- 85th Percentile: 34 mph
- 95th Percentile: 37 mph

Huron Hills Dr. (S of Arrowhead Dr.)

Friday, May 24 – Thursday, May 30

- Speed Limit: 25 mph
- Average Speed: 21 mph
- Percent \leq 25 mph: 63.6%
- Percent \leq 30 mph: 89.5%
- Total Number of Vehicles: 2,849
- 24-hr ADT Weekday: 386 vehicles
- 24-hr ADT Weekend: 439 vehicles
- 15th Percentile: 11 mph
- 50th Percentile: 22 mph
- 85th Percentile: 28 mph
- 95th Percentile: 32 mph

Monroe St. (N of Willow St.)

Thursday, July 11 – Wednesday, July 17

- Speed Limit: 25 mph
- Average Speed: 22 mph
- Percent \leq 25 mph: 67.8%
- Percent \leq 30 mph: 95%
- Total Number of Vehicles: 10,575
- 24-hr ADT Weekday: 1,863 vehicles
- 24-hr ADT Weekend: 1,232 vehicles
- 15th Percentile: 13 mph
- 50th Percentile: 22 mph
- 85th Percentile: 27 mph
- 95th Percentile: 30 mph



Parsons Rd. (between Hastings St. & Airport Access Rd.)

Tuesday, June 4 – Tuesday, June 11

- Speed Limit: 45 mph
- Average Speed: 42 mph
- Percent \leq 45 mph: 73.1%
- Percent \leq 50 mph: 95.5%
- Total Number of Vehicles: 63,455
- 24-hr ADT Weekday: 10,728 vehicles
- 24-hr ADT Weekend: 4,767 vehicles
- 15th Percentile: 36 mph
- 50th Percentile: 42 mph
- 85th Percentile: 47 mph
- 95th Percentile: 50 mph

Sheridan Rd. (N of S Orchard Dr.)**

Friday, August 2 – Thursday, August 8

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent \leq 25 mph: 45.5%
- Percent \leq 30 mph: 82.5%
- Total Number of Vehicles: 3,290
- 24-hr ADT Weekday: 584 vehicles
- 24-hr ADT Weekend: 435 vehicles
- 15th Percentile: 14 mph
- 50th Percentile: 24 mph
- 85th Percentile: 30 mph
- 95th Percentile: 34 mph

Silver Dr. (S of curve & Cottagewood Dr.)

Monday, June 10 – Sunday, June 16

- Speed Limit: 25 mph
- Average Speed: 25 mph
- Percent \leq 25 mph: 48.9%
- Percent \leq 30 mph: 91.5%
- Total Number of Vehicles: 22,009
- 24-hr ADT Weekday: 4,143 vehicles
- 24-hr ADT Weekend: 2,475 vehicles
- 15th Percentile: 19 mph
- 50th Percentile: 24 mph
- 85th Percentile: 29 mph
- 95th Percentile: 32 mph



Union St. (N of 10th St.)

Tuesday, July 9 – Friday, July 12

- Speed Limit: 25 mph
- Average Speed: 22 mph
- Percent \leq 25 mph: 74.7%
- Percent \leq 30 mph: 97.4%
- Total Number of Vehicles: 22,202
- 24-hr ADT Weekday: 6,859 vehicles
- 15th Percentile: 14 mph
- 50th Percentile: 21 mph
- 85th Percentile: 26 mph
- 95th Percentile: 29 mph

Union St. (at 11th St. Intersection)

Monday, July 8 – Thursday, July 11

- Speed Limit: 25 mph
- Average Speed: 24 mph
- Percent \leq 25 mph: 39.7%
- Percent \leq 30 mph: 86.2%
- Total Number of Vehicles: 19,762
- 24-hr ADT Weekday: 7,616 vehicles
- 15th Percentile: 16 mph
- 50th Percentile: 25 mph
- 85th Percentile: 30 mph
- 95th Percentile: 33 mph

* Please note that the Cherry Festival began Saturday, June 29, 2013 (during these speed counts)

** Please note that the Film Festival began Tuesday, July 30, 2013 (during these associated counts)

Enclosed: Location Map