
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Jessica Carpenter, E.I.T., Engineering Technician
DATE: Tuesday, July 14, 2015
SUBJECT: Speed Study of Eleventh St, 100 Block between Union St and Cass St.

City Engineering performed an on-site 11-day speed count beginning Friday, July 17, 2015 at 11 am until Tuesday, July 28, 2015 at 2 pm on the 100 block of Eleventh St. This memo is to formalize City Engineering's initial findings and observations with regard to the speeds of vehicles on the 100 block of Eleventh St.

The data was gathered using a Jamar Radar Recorder which collected traffic data, including vehicle speed, for each lane of traffic (eastbound and westbound). 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 speeds of the vehicles into groups based on 5 mile per hour increments, starting with 0-15 miles per hour. The report shows how many vehicles were within the specified speed range during the time indicated by the report.

During the 11-day study, 7,098 vehicles were recorded on this section of Eleventh St with about 72 percent of eastbound vehicles traveling between 16 and 25 miles per hour and an average speed of 17 miles per hour. Westbound vehicles had an average speed of 18 miles per hour, with about 74 percent traveling between 16 and 25 miles per hour. About 4 percent of eastbound vehicles and 6 percent of westbound vehicles were recorded going speeds above the posted speed limit of 25 miles per hour. 85 percent of all vehicles were going 23 mph or slower.

Summary:

- Speed Limit: 25 mph
- Number of Recorded Vehicles (18 days): 7,098
- Average Speed: 18 mph
- 85th Percentile Speed: 23 mph
- Total Percentage Above Speed Limit: 4.8 %

Encl.: Detailed TraxPro Speed Report (Separate and Combined)