
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, August 18, 2015
SUBJECT: Speed Study of Spruce St, between Second St and Randolph St.

City Engineering performed an on-site 18-day speed count beginning Friday, July 17, 2015 at 12 pm until Tuesday, July 28, 2015 at 3 pm on Spruce St between Second St and Randolph St. This memo is to formalize City Engineering's initial findings and observations with regard to the speeds of vehicles on Spruce St between Second St and Randolph 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 18-day study, 6,495 vehicles were recorded on this section of Spruce St with about 77 percent of southbound vehicles traveling between 16 and 25 miles per hour and an average speed of 19 miles per hour. Northbound vehicles had an average speed of 20 miles per hour, with about 84 percent traveling between 16 and 25 miles per hour. About 7 percent of southbound vehicles and 6 percent of northbound 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): 6,495
- Average Speed: 19 mph
- 85th Percentile Speed: 23 mph
- Total Percentage Above Speed Limit: 6.5 %

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