
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Colby Winter, Seasonal Engineering Aide
DATE: Monday, May 16, 2016
SUBJECT: Speed Study on Barlow St between Washington St and Webster St

City Engineering conducted a 40 hour Speed and Volume study on Monday, May 9, 2016 through Wednesday, May 11, 2016. This memo serves to formalize City Engineering's initial data observations and findings in respect to the speed statistics of vehicular traffic on Barlow St.

The data was gathered using a JAMAR Radar Recorder, this data recorder collects both vehicle speed and volume using radar sensors in both northbound and southbound 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 the 40 hour study, 3,718 vehicles' speeds were recorded by the radar on Barlow St between Washington St and Webster St. The average (mean) speed of all vehicular traffic is 23 miles per hour, with only 26.6% of vehicles traveling above the posted speed limit. Giving vehicles a 5 miles per hour enforcement tolerance level, 2.2% of vehicular traffic would be traveling at velocities greater than 30 miles per hour.

Unfortunately, there is no historical data to compare City Engineering's speed study with for Barlow St between Washington St and Webster St.

It should be noted that there was roadwork that closed State St, which is within the neighborhood vicinity of where the study was held.

Summary (Combined):

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| • Speed Limit: | 25 MPH |
| • Number of Recorded Vehicles (40hrs) | 3,718 |
| • Average Speed (Mean): | 23 MPH |
| • Total Enforcement Rating: | Low |
| • Total Percentage Above Speed Limit: | 26.6% |
| • Total Percentage Above Enforcement Tolerance Level | 2.2% |

Encl.:
Detailed TraxPro Speed Reports (Combined and Directional)
TraxPro Enforcement Reports