

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: Whitefish Bay  
Street: Lake Drive**

A study of vehicle traffic was conducted with HI-STAR unit number 8681. The study was done in the SB lane on Lake Drive in Whitefish Bay, WI in Milwaukee county. The study began on 10/29/2009 at 12:00 PM and concluded on 10/30/2009 at 12:00 PM, lasting a total of 24 hours. Data was recorded in 1 minute time periods. The total recorded volume of traffic showed 5,856 vehicles passed through the location with a peak volume of 21 on 10/30/2009 at 07:31 AM and a minimum volume of 0 on 10/29/2009 at 02:52 PM. The AADT Count for this study was 5,856.

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

**Chart 1**

0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to >
0	21	43	189	1582	2959	871	120	23	11	12	5	5	4	4

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 32 mph with 68.6 percent exceeding the posted speed of 30 mph. The HI-STAR found 0.51 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 36.02 mph.

**CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

**Chart 2**

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to >
5720	78	34	7	5	5	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 5,798 which represents 99.10 percent of the total classified vehicles. The number of Small Trucks in the study was 34 which represents 0.60 percent of the total classified vehicles. The number of Trucks/Buses in the study was 7 which represents 0.10 percent of the total classified vehicles. The number of Tractor Trailers in the study was 10 which represents 0.20 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 10/30/2009 at 07:31 AM the average headway between the vehicles was 2.73 seconds. The slowest traffic period was on 10/29/2009 at 02:52 PM. During this slowest period, the average headway was 60.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 52 and 62 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 99.79 percent of the time.