

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: Milwaukee  
Street: North Ave**

A study of vehicle traffic was conducted with HI-STAR unit number 8784. The study was done in the EB lane on North Ave in Milwaukee, WI in Milwaukee county. The study began on 11/05/2009 at 11:00 AM and concluded on 11/06/2009 at 11:00 AM, lasting a total of 24 hours. Data was recorded in 1 minute time periods. The total recorded volume of traffic showed 11,206 vehicles passed through the location with a peak volume of 25 on 11/05/2009 at 05:14 PM and a minimum volume of 0 on 11/05/2009 at 07:31 PM. The AADT Count for this study was 11,206.

**SPEED**

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

**Chart 1**

0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	14	19	24	29	34	39	44	49	54	59	64	69	74	
0	153	659	1853	4089	3194	914	191	46	22	13	7	10	6	8

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 29 mph with 39.5 percent exceeding the posted speed of 30 mph. The HI-STAR found 0.39 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 34.28 mph.

**CLASSIFICATION**

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

**Chart 2**

0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
10568	350	157	64	17	5	2	2

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 10,918 which represents 97.80 percent of the total classified vehicles. The number of Small Trucks in the study was 157 which represents 1.40 percent of the total classified vehicles. The number of Trucks/Buses in the study was 64 which represents 0.60 percent of the total classified vehicles. The number of Tractor Trailers in the study was 26 which represents 0.20 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 11/05/2009 at 05:14 PM the average headway between the vehicles was 2.31 seconds. The slowest traffic period was on 11/05/2009 at 07:31 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 44 and 66 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.