

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: Chester  
Street: US30-btwn Ramp to SR2**

A study of vehicle traffic was conducted with HI-STAR unit number 1242. The study was done in the NBLL lane on US30-btwn Ramp to SR2 in Chester, WV in Hancock county. The study began on 07/15/2009 at 12:00 AM and concluded on 07/16/2009 at 12:00 AM, lasting a total of 24 hours. Data was recorded in 15 minute time periods. The total recorded volume of traffic showed 3,742 vehicles passed through the location with a peak volume of 109 on 07/15/2009 at 05:00 PM and a minimum volume of 2 on 07/15/2009 at 02:00 AM. The AADT Count for this study was 3,742.

**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	30	16	40	152	475	932	1002	667	267	102	34	12	7	2

At least half of the vehicles were traveling in the 40 - 44 mph range or a lower speed. The average speed for all classified vehicles was 41 mph with 4.20 percent exceeding the posted speed of 55 mph. The HI-STAR found 4.20 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 40 mph and the 85th percentile was 48.98 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	
3518	77	61	28	32	15	6	1

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 3,595 which represents 96.20 percent of the total classified vehicles. The number of Small Trucks in the study was 61 which represents 1.60 percent of the total classified vehicles. The number of Trucks/Buses in the study was 28 which represents 0.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 54 which represents 1.40 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 07/15/2009 at 05:00 PM the average headway between the vehicles was 8.18 seconds. The slowest traffic period was on 07/15/2009 at 02:00 AM. During this slowest period, the average headway was 300.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 66 and 125 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.