

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: Chester  
Street: US30-2000 W of High Acres Dr**

A study of vehicle traffic was conducted with HI-STAR unit number 4362. The study was done in the EBRL lane on US30-2000 W of High Acres Dr in Chester, WV in Hancock county. The study began on 07/22/2009 at 12:00 AM and concluded on 07/23/2009 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 4,904 vehicles passed through the location with a peak volume of 97 on 07/22/2009 at 04:30 PM and a minimum volume of 1 on 07/22/2009 at 01:15 AM. The AADT Count for this study was 4,904.

**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	18	13	30	50	89	304	1028	1731	1064	404	123	30	13	6

At least half of the vehicles were traveling in the 45 - 49 mph range or a lower speed. The average speed for all classified vehicles was 48 mph with 11.7 percent exceeding the posted speed of 55 mph. The HI-STAR found 11.7 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 45 mph and the 85th percentile was 54.25 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	
4463	218	106	48	35	19	14	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 4,681 which represents 95.50 percent of the total classified vehicles. The number of Small Trucks in the study was 106 which represents 2.20 percent of the total classified vehicles. The number of Trucks/Buses in the study was 48 which represents 1.00 percent of the total classified vehicles. The number of Tractor Trailers in the study was 68 which represents 1.40 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 07/22/2009 at 04:30 PM the average headway between the vehicles was 9.18 seconds. The slowest traffic period was on 07/22/2009 at 01:15 AM. During this slowest period, the average headway was 450.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 66 and 91 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 56.25 percent of the time.