

**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 1242. The study was done in the WB 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 6,025 vehicles passed through the location with a peak volume of 150 on 07/22/2009 at 05:00 PM and a minimum volume of 3 on 07/22/2009 at 03:30 AM. The AADT Count for this study was 6,025.

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	36	36	47	113	221	438	1171	2111	1333	378	95	28	9	5

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 46 mph with 8.55 percent exceeding the posted speed of 55 mph. The HI-STAR found 8.55 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 53.54 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	
5708	101	91	39	47	25	8	2

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 5,809 which represents 96.50 percent of the total classified vehicles. The number of Small Trucks in the study was 91 which represents 1.50 percent of the total classified vehicles. The number of Trucks/Buses in the study was 39 which represents 0.60 percent of the total classified vehicles. The number of Tractor Trailers in the study was 82 which represents 1.40 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 07/22/2009 at 05:00 PM the average headway between the vehicles was 5.96 seconds. The slowest traffic period was on 07/22/2009 at 03:30 AM. During this slowest period, the average headway was 225.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 66 and 85 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 98.96 percent of the time.