

**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 4362. The study was done in the SBLL 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 1,915 vehicles passed through the location with a peak volume of 49 on 07/15/2009 at 05:00 PM and a minimum volume of 0 on 07/15/2009 at 01:00 AM. The AADT Count for this study was 1,915.

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	9	12	4	4	8	30	126	414	641	436	153	58	15	4

At least half of the vehicles were traveling in the 50 - 54 mph range or a lower speed. The average speed for all classified vehicles was 53 mph with 34.8 percent exceeding the posted speed of 55 mph. The HI-STAR found 34.8 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 50 mph and the 85th percentile was 59.35 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	
1820	60	14	8	4	3	4	1

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,880 which represents 98.20 percent of the total classified vehicles. The number of Small Trucks in the study was 14 which represents 0.70 percent of the total classified vehicles. The number of Trucks/Buses in the study was 8 which represents 0.40 percent of the total classified vehicles. The number of Tractor Trailers in the study was 12 which represents 0.60 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 18.0 seconds. The slowest traffic period was on 07/15/2009 at 01:00 AM. During this slowest period, the average headway was 900.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 66 and 128 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.