

**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 4363. The study was done in the SBRL 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 1,878 vehicles passed through the location with a peak volume of 43 on 07/15/2009 at 03:00 PM and a minimum volume of 0 on 07/15/2009 at 01:00 AM. The AADT Count for this study was 1,878.

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	5	7	9	9	21	80	352	693	467	169	42	15	4	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 48 mph with 12.5 percent exceeding the posted speed of 55 mph. The HI-STAR found 12.5 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 54.50 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	
1671	72	41	17	37	31	7	2

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,743 which represents 92.80 percent of the total classified vehicles. The number of Small Trucks in the study was 41 which represents 2.20 percent of the total classified vehicles. The number of Trucks/Buses in the study was 17 which represents 0.90 percent of the total classified vehicles. The number of Tractor Trailers in the study was 77 which represents 4.10 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 07/15/2009 at 03:00 PM the average headway between the vehicles was 20.45 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 130 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.