

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: East Liverpool  
Street: Newell Brdg-at Ohio River**

A study of vehicle traffic was conducted with HI-STAR unit number 1238. The study was done in the NB lane on Newell Brdg-at Ohio River in East Liverpool, 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 3,882 vehicles passed through the location with a peak volume of 119 on 07/15/2009 at 02:00 PM and a minimum volume of 8 on 07/15/2009 at 03:30 AM. The AADT Count for this study was 3,882.

**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	880	1912	348	43	23	6	7	5	2	1	1	1	1	2

At least half of the vehicles were traveling in the 15 - 19 mph range or a lower speed. The average speed for all classified vehicles was 17 mph with 2.85 percent exceeding the posted speed of 25 mph. The HI-STAR found 0.19 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 15 mph and the 85th percentile was 19.88 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	
3176	36	14	3	3	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 3,212 which represents 99.40 percent of the total classified vehicles. The number of Small Trucks in the study was 14 which represents 0.40 percent of the total classified vehicles. The number of Trucks/Buses in the study was 3 which represents 0.10 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.10 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 07/15/2009 at 02:00 PM the average headway between the vehicles was 7.5 seconds. The slowest traffic period was on 07/15/2009 at 03:30 AM. During this slowest period, the average headway was 100.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 68 and 113 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.