

**MH Corbin Traffic Analyzer Study**  
**Computer Generated Summary Report**  
**City: Irvington**  
**Street: King Carter Drive**  
**Location: 37.662352, -76.422215**

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A study of vehicle traffic was conducted with the device having serial number 406707. The study was done in the EB & WB lane at King Carter Drive in Irvington, Va in Lancaster county. The study began on 07/15/2021 at 12:00 PM and concluded on 07/20/2021 at 12:00 PM, lasting a total of 120.00 hours. Traffic statistics were recorded in 15 minute time periods. The total recorded volume showed 7,483 vehicles passed through the location with a peak volume of 47 on 07/17/2021 at [02:45 PM-03:00 PM] and a minimum volume of 0 on 07/15/2021 at [11:30 PM-11:45 PM]. The AADT count for this study was 1,497.

### **SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin. At least half the vehicles were traveling in the 25 - 30 MPH range or lower. The average speed for all classified vehicles was 30 MPH with 84.69% vehicles exceeding the posted speed of 25 MPH. 0.21% percent of the total vehicles were traveling in excess of 55 MPH. The mode speed for this traffic study was 25MPH and the 85th percentile was 35.57 MPH.

< to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to >
2	37	154	947	2564	2515	957	200	41	13	4	3	1	1	7

CHART 1

### **CLASSIFICATION**

Chart 2 lists the values of the classification bins and the total traffic volume accumulated for each bin.

Most of the vehicles classified during the study were Passenger Vehicles. The number of Passenger Vehicles in the study was 4293 which represents 58 percent of the total classified vehicles. The number of Vans & Pickups in the study was 2887 which represents 39 percent of the total classified vehicles. The number of Busses & Trucks in the study was 142 which represents 2 percent of the total classified vehicles. The number of Tractor Trailers in the study was 124 which represents 2 percent of the total classified vehicles.

< to 17	18 to 20	21 to 23	24 to 27	28 to 31	32 to 37	38 to 43	44 to >							
4293	2727	160	32	77	48	38	71							

CHART 2

### **HEADWAY**

During the peak traffic period, on 07/17/2021 at [02:45 PM-03:00 PM] the average headway between vehicles was 18.75 seconds. During the slowest traffic period, on 07/15/2021 at [11:30 PM-11:45 PM] the average headway between vehicles was 900 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 79.00 and 145.00 degrees F.