From: White, William carter.white@vdot.virginia.gov

Subject: Irvington Traffic Studies Date: January 10, 2022 at 4:20 PM To: muchapman@verizon.net



Sorry for not getting this information to you sooner.

Our Traffic Engineering Section performed the below information.

Without doing a full speed study and based solely on drivers' behaviors, the preliminary conclusions are that the speeds are posted on the low side. A 30mph to 35mph speed limit would more accurately represent the driver population.

Route.	ADT	Posted	Ave	85th
_	3,033*	25	28	33.0
SR-634	1,497*	25	30	35.6 KC
SR-635	1,100**	25	25	30.
*Observe	d			
**AADT				

Regarding vehicle classification, we typically see 3-6% truck traffic, so these numbers are in line. On SR-635, the

higher single-unit (SU) trucks (6.5%) are likely due to the boat repair shop.

Route	ADT	Cars/PU	Bus/SU Trucks	0
VA-200	3,033*	94.1%	2.5% 2.9%	
SR-634	1,497*	96.0%		
SR-635	1,100**	89.5%	6.5% 77 3.8%. 42 = 114	
*Observe	d		10	
**AADT				

^{***}Some vehicles were unclassified creating totals not equal to 100%

https://goo.gl/maps/mPVLgCYSbkXZvUpf7

If you have any questions, please contact David Beale, Resident Engineer at (804-333-7941) or myself (Carter White) at (804-333-7942)

Gelauit Report Tate Use Preferences to Define Titles

Latitude: 37,658320 Longitude: -76,419939



Analysis Time Period

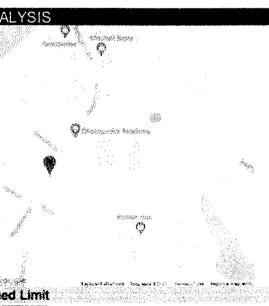


End Start 7/15/2021 7/20/2021 12:00 PM 12:00 PM

Vehicles Analyzed









CLASS DATA ANALYSIS

Location



Latitude: 37.658320 Longitude: -76.419939

Analysis Time Period



Start 7/15/2021 12:00 AM

End 7/20/2021 12:12 PM

Vehicles Analyzed

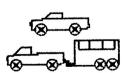


3,141

Motorcycles



2 Axle Long



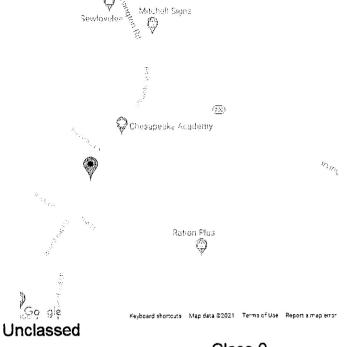
2 Axle 6 Tire



Class 1 Motorcycles Volume: 37 Pct of Total: 1.2% Length: 78 Inches

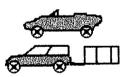
Class 3 2 Axle Long Volume: 762 Pct of Total: 24.3% Length: 167 Inches

Class 5 2 Axle 6 Tire Volume: 198 Pct of Total: 6.3% Length: 187 Inches

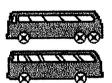




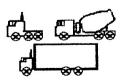
Cars Trailers



Buses



3 Axle Single



Class 0 Unclassed Volume: 10 Pct of Total: 0.3% Length: 180 Inches

Class 2 Cars Trailers Volume: 2,011 Pct of Total: 64.0% Length: 134 Inches

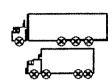
Buses Volume: 2 Pct of Total: 0.1% Length: 282 Inches

Class 4

Class 6 3 Axle Single Volume: 2 Pct of Total: 0.1% Length: 261 Inches

CLASS DATA ANALYSIS

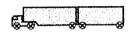
4 Axle Single



5 Axle Double



<6 Axl Multi



Class 7

4 Axle Single Volume: 0

Pct of Total: 0.0%

Length: 0 Inches

Class 9

5 Axle Double

Volume: 0 Pct of Total: 0.0%

Length: 0 Inches

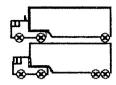
Class 11 <6 Axl Multi

Volume: 0

Pct of Total: 0.0%

Length: 0 Inches

<5 Axl Double



>6 Axl Double



6 Axle Multi



Class 8
<5 Axl Double
Volume: 119
Pct of Total: 3.8%

Length: 442 Inches

Class 10 >6 Axl Double Volume: 0 Pct of Total: 0.0% Length: 0 Inches

Class 12 6 Axle Multi Volume: 0 Pct of Total: 0.0%

Length: 0 Inches

κ .	10	15	20	25	30	35	40	45	50	55	60	55	70	75
50 9	50 14	\$9 19	40 34	% 29	50 34	95 39	50 44	to 49	56 54	59 59	50 54	50 69	50 74	353 >>
15	102	396	25:28	7312	3492	293	102	45	22	21	14	7	9	19

CHART 1

CLASSIFICATION

Chart 2 lists the values of the classification time 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 8156 which represents 54 percent of the total classified vehicles. The number of Vans & Pickeps in the study was 5106 which represents 40 percent of the total classified vehicles. The number of Busses & Trucks in the study was 378 which represents 3 percent of the total classified vehicles. The number of Tractor Trailers in the study was 436 which represents 3 percent of the total classified vehicles.

6%

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*	18	21	24	23	32	38	44				
50	50	50	25	50	\$5	50	(O				
17	20	23	27	31	37	43	2				
8156	5612	494	69	183	202	178	184				

CHART 2

HEADWAY.

During the peak traffic period, on 07/16/2021 at [12:45 PM-01:00 PM] the average headway between vehicles was 10 seconds. During the slowest traffic period, on 07/16/2021 at [01:45 AM-02:00 AM] the average headway between vehicles was 900 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 81.00 and 144.00 degrees F.

07/28/2021 10:36 AM

P206

1

MH Corbin Traffic Analyzer Study Computer Generated Summary Report City: Irvington Street: King Carlor Drive Location: 37,662352, -76,422215

A study of vehicle traffic was conducted with the device having serial number 406707. The study was done in the ES & WB lane at King Carter Drive in tryington. 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 abowed 7,483 vehicles passed through the totalion 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 I hats 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 dissilled 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.

and the same of the same	e M	10 50 14	15 50 19	20 85 381	25 % 29	30 % 34	36 50 39	40 % 44	45 50 49	50 ½ 54	58 to 59	60 % 64	66 33 66	70 30 74	7% 50 2	والمساسات
1	2	37	154	917	2564	2513	957	200	41	13	4	ŧ	1	1	7	

CHART 1

31436

CLASSIFICATION

Chart 2 lists the values of the classification bins and the total valid: whome 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 Trakers in the study was 124 which represents 2 percent of the total classified vehicles.

to

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.

Page:

07/25/2021 01:29 FM