



**HIGHWAY FACTORS AND RAILROAD GRADE CROSSING
GROUP CHAIRMAN'S FACTUAL REPORT**

**Highway and Rail Crossing Attachment – Virginia DOT
Traffic Study Data for 2003, 2009, and 2015**

Crozet, Virginia

HWY18MH005

(10 pages)

Vehicle General Flow Report: Rt 684 Stat 1

Station ID : Rt 684 Stat 1

Info Line 1 : 0.19 Mi North of 691

Info Line 2 :

GPS Lat/Lon :

DB File : Rt 684 Stat 1.DB

Last Connected Device Type : Apollo

Version Number : 1.66

Serial Number : UU30101

Number of Lanes : 2

Posted Speed Limit : 40.0 mph

Lane Configuration

#	Dir.	Information	Vehicle Sensors	Sensor Spacing	Loop Length
1.			Axle-Axle	4.0 ft	
3.			Axle-Axle	4.0 ft	

All Lanes From: 11:50 - 07/21/2015 To: 12:59 - 07/22/2015

	Time	Volume	Avg Speed	Avg Headway	Avg Gap	Total Cars	Total Trucks
07/21/2015 - Tue	00:00						
	01:00						
	02:00						
	03:00						
	04:00						
	05:00						
	06:00						
	07:00						
	08:00						
	09:00						
	10:00						
	11:00	4	19.6 mph	63.0 sec	62.8 sec	4 (100%)	0 (0%)
	12:00	48	23.6 mph	78.6 sec	77.9 sec	47 (97%)	1 (3%)
	13:00	42	25.2 mph	85.2 sec	85.0 sec	41 (97%)	1 (3%)
	14:00	50	25.9 mph	73.1 sec	72.8 sec	47 (94%)	3 (6%)
	15:00	33	25.8 mph	106.2 sec	105.9 sec	31 (93%)	2 (7%)
	16:00	60	27.1 mph	61.3 sec	61.1 sec	58 (96%)	2 (4%)
	17:00	82	25.1 mph	43.9 sec	43.7 sec	82 (100%)	0 (0%)
	18:00	62	27.1 mph	55.3 sec	55.0 sec	62 (100%)	0 (0%)
	19:00	39	27.7 mph	95.8 sec	95.6 sec	37 (94%)	2 (6%)
	20:00	19	23.9 mph	183.7 sec	183.5 sec	19 (100%)	0 (0%)
	21:00	35	23.9 mph	103.4 sec	103.2 sec	35 (100%)	0 (0%)
	22:00	16	23.7 mph	209.8 sec	209.5 sec	16 (100%)	0 (0%)
23:00	7	25.8 mph	559.4 sec	559.2 sec	7 (100%)	0 (0%)	
Daily Totals:		497	25.6 mph	87.7 sec	87.4 sec	486 (97%)	11 (3%)

	Time	Volume	Avg Speed	Avg Headway	Avg Gap	Total Cars	Total Trucks
07/22/2015 - Wed	00:00	1	27.7 mph	0.0 sec	0.0 sec	1 (100%)	0 (0%)
	01:00	2	27.8 mph	1637.0 sec	1636.8 sec	2 (100%)	0 (0%)
	02:00	1	24.5 mph	2666.0 sec	2665.8 sec	1 (100%)	0 (0%)
	03:00	0	0	0.0 sec	0.0 sec	0 (0%)	0 (0%)
	04:00	0	0	0.0 sec	0.0 sec	0 (0%)	0 (0%)
	05:00	6	27.5 mph	2336.8 sec	2336.6 sec	6 (100%)	0 (0%)
	06:00	22	28.0 mph	177.6 sec	177.3 sec	22 (100%)	0 (0%)
	07:00	55	27.8 mph	64.5 sec	64.3 sec	53 (96%)	2 (4%)
	08:00	61	28.8 mph	59.5 sec	59.3 sec	59 (96%)	2 (4%)
	09:00	41	26.3 mph	87.6 sec	87.4 sec	40 (97%)	1 (3%)
	10:00	32	25.5 mph	111.8 sec	111.6 sec	32 (100%)	0 (0%)
	11:00	36	27.2 mph	101.4 sec	101.2 sec	35 (97%)	1 (3%)
	12:00	52	25.0 mph	62.1 sec	61.8 sec	48 (92%)	4 (8%)
	13:00						
	14:00						
	15:00						
	16:00						
	17:00						
	18:00						
	19:00						
	20:00						
	21:00						
	22:00						
	23:00						
Daily Totals:		309	27.0 mph	145.9 sec	145.7 sec	299 (96%)	10 (4%)

Vehicle General Flow Report - Grand Totals

Note: ADT and Average are based on total value of all lanes printed (Together Print).

Average Daily Traffic (ADT)

Weekday	Weekend	Total ADT
Cars : 724 (97%)	Cars : _____	Cars : 724 (97%)
Trucks : 19 (3%)	Trucks : _____	Trucks : 19 (3%)
Total : 744	Total : _____	Total : 744

Speed Totals

50 % : 25.7 mph	Top Speed : 43.4 mph	Average Truck Speed : 23.7 mph
85 % : 32.1 mph	Low Speed : 3.4 mph	Average Car Speed : 26.2 mph
Avg : 26.2 mph	10mph Pace Speed: 20.7 - 30.6 (63.2%)	

Peak Hour Totals

AM Peak Hour (Volume)	AM Peak Hour (Speed)
Weekday : 07:30 - 08:30 (Avg 69)	08:15 - 09:15 (29.3 mph)
Weekend :	
PM Peak Hour (Volume)	PM Peak Hour (Speed)
Weekday : 17:00 - 18:00 (Avg 82)	19:00 - 20:00 (27.7 mph)
Weekend :	

Grand Totals

Total Cars : 785 (724 ADT)	Average Length : 8.9 ft	Average Headway : 110.0 sec
Total Trucks : 21 (19 ADT)	Average Axles : 2.1	Average Gap : 109.8 sec
Total Volume : 806 (744 ADT)		

Vehicle General Flow Report: 684 STA2

Station ID : 684 STA2

Info Line 1 : 0.4 Mi south of 788

Info Line 2 :

GPS Lat/Lon :

DB File : 684 STA2.DB

Last Connected Device Type : Apollo

Version Number : 1.66

Serial Number : UU30104

Number of Lanes : 2

Posted Speed Limit : 40.0 mph

Lane Configuration

#	Dir.	Information	Vehicle Sensors	Sensor Spacing	Loop Length
1.			Axle-Axle	4.0 ft	
3.			Axle-Axle	4.0 ft	

All Lanes From: 12:06 - 07/21/2015 To: 13:14 - 07/22/2015

	Time	Volume	Avg Speed	Avg Headway	Avg Gap	Total Cars	Total Trucks	
07/21/2015 - Tue	00:00							
	01:00							
	02:00							
	03:00							
	04:00							
	05:00							
	06:00							
	07:00							
	08:00							
	09:00							
	10:00							
	11:00							
	12:00		36	32.9 mph	73.8 sec	73.5 sec	35 (97%)	1 (3%)
	13:00		42	30.9 mph	84.0 sec	83.8 sec	42 (100%)	0 (0%)
	14:00		51	31.5 mph	69.2 sec	69.0 sec	48 (94%)	3 (6%)
	15:00		35	33.2 mph	103.8 sec	103.6 sec	34 (97%)	1 (3%)
	16:00		55	32.9 mph	66.5 sec	66.3 sec	51 (92%)	4 (8%)
	17:00		84	34.8 mph	43.6 sec	43.4 sec	81 (96%)	3 (4%)
	18:00		62	33.5 mph	54.6 sec	54.4 sec	62 (100%)	0 (0%)
	19:00		42	31.0 mph	89.1 sec	88.9 sec	41 (97%)	1 (3%)
	20:00		20	31.3 mph	176.8 sec	176.7 sec	20 (100%)	0 (0%)
	21:00		35	31.2 mph	102.5 sec	102.3 sec	35 (100%)	0 (0%)
	22:00		16	32.4 mph	211.4 sec	211.2 sec	16 (100%)	0 (0%)
	23:00		7	35.0 mph	553.0 sec	552.8 sec	7 (100%)	0 (0%)
Daily Totals:		485	32.7 mph	86.9 sec	86.7 sec	472 (97%)	13 (3%)	

	Time	Volume	Avg Speed	Avg Headway	Avg Gap	Total Cars	Total Trucks
07/22/2015 - Wed	00:00	1	28.5 mph	0.0 sec	0.0 sec	1 (100%)	0 (0%)
	01:00	2	33.6 mph	1637.5 sec	1637.3 sec	2 (100%)	0 (0%)
	02:00	1	22.7 mph	2658.0 sec	2657.8 sec	1 (100%)	0 (0%)
	03:00	0	0	0.0 sec	0.0 sec	0 (0%)	0 (0%)
	04:00	0	0	0.0 sec	0.0 sec	0 (0%)	0 (0%)
	05:00	6	34.4 mph	2346.3 sec	2346.1 sec	6 (100%)	0 (0%)
	06:00	23	31.3 mph	153.7 sec	153.5 sec	23 (100%)	0 (0%)
	07:00	55	33.2 mph	71.0 sec	70.8 sec	53 (96%)	2 (4%)
	08:00	62	33.0 mph	58.0 sec	57.8 sec	62 (100%)	0 (0%)
	09:00	42	32.7 mph	86.8 sec	86.6 sec	42 (100%)	0 (0%)
	10:00	32	32.6 mph	111.6 sec	111.4 sec	32 (100%)	0 (0%)
	11:00	34	32.9 mph	104.9 sec	104.7 sec	32 (94%)	2 (6%)
	12:00	56	31.4 mph	65.0 sec	64.8 sec	54 (96%)	2 (4%)
	13:00	6	24.5 mph	41.5 sec	40.0 sec	5 (83%)	1 (17%)
	14:00						
	15:00						
	16:00						
	17:00						
	18:00						
	19:00						
	20:00						
	21:00						
	22:00						
	23:00						
Daily Totals:		320	32.4 mph	142.9 sec	142.7 sec	313 (97%)	7 (3%)

Vehicle General Flow Report - Grand Totals

Note: ADT and Average are based on total value of all lanes printed (Together Print).

Average Daily Traffic (ADT)

Weekday	Weekend	Total ADT
Cars : 724 (97%)	Cars : _____	Cars : 724 (97%)
Trucks : 18 (3%)	Trucks : _____	Trucks : 18 (3%)
Total : 743	Total : _____	Total : 743

Speed Totals

50 % : 32.1 mph	Top Speed : 53.4 mph	Average Truck Speed : 29.3 mph
85 % : 38.8 mph	Low Speed : 4.3 mph	Average Car Speed : 32.6 mph
Avg : 32.6 mph	10mph Pace Speed: 26.8 - 36.7 (64.6%)	

Peak Hour Totals

<u>AM Peak Hour (Volume)</u> Weekday : 07:30 - 08:30 (Avg 70) Weekend : _____	<u>AM Peak Hour (Speed)</u> 05:00 - 06:00 (34.4 mph)
<u>PM Peak Hour (Volume)</u> Weekday : 17:00 - 18:00 (Avg 84) Weekend : _____	<u>PM Peak Hour (Speed)</u> 22:30 - 23:30 (35.3 mph)

Grand Totals

Total Cars : 785 (724 ADT)	Average Length : 9.2 ft	Average Headway : 109.2 sec
Total Trucks : 20 (18 ADT)	Average Axles : 2.1	Average Gap : 109.0 sec
Total Volume : 805 (743 ADT)		