### 2014

# Virginia Department of Transportation Daily Traffic Volume Estimates Including Vehicle Classification Estimates

where available

### Special Locality Report 299

Town of Shenandoah

Information in this report is included in Report

69

(Page County)

Prepared By

Virginia Department of Transportation Traffic Engineering Division

In Cooperation With

U.S. Department of Transportation Federal Highway Administration

### Virginia Department of Transportation Traffic Engineering Division Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people of the VDOT Traffic Engineering Division Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

#### **Publication Notes**

#### Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a "Combined Traffic Estimates for Parallel Roadways on this Route" or "Combined Traffic" identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate "NA" for not available.

VDOT's traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating "NA" for not available. It is the intention of the VDOT Traffic Engineering Division Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate "NA" for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

#### Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

#### QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

**2Axle Truck**: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

**3+Axle Truck**: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1 Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the K Factor estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Design Hour Factor (K Factor) of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

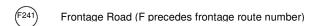
- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

### Route Shield Legend

### Route Systems

North 81	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
29	US Route	



(600) Secondary Route
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Virginia State Route

### Special Routes

Bus 29 ALT 220	Bus - Business Route Bypas - Bypass Route Truck - Truck Route ALT - Alternate Route Wve - Wve Route connector
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- P Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
- The VDOT Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

#### Virginia Department of Transportation Traffic Engineering Division 2014

#### Annual Average Daily Traffic Volume Estimates By Section of Route Town of Shenandoah

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus		Tru 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From:	SC	L Shenando	oah												
340	Town of Shenandoah (Maint: 69)	1.22	6000	N	97%	0%	1%	1%	1%	0%	N	0.087	Ν	0.516	6200	N
-	To: From:	69-	706 Junior .	Ave												
(340) Fifth St	Town of Shenandoah (Maint: 69)	0.65	6400	G	96%	1%	1%	1%	2%	0%	F	0.087	F	0.581	6600	G
	To:	NC	L Shenand	oah												

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							l own of	Shenan	doan								
	Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
<u> Fown</u>	of Shenandoah		From				D 1: 1	<u> </u>	*.								
600	Maryland Ave	0.37	4800	G	97%	0%	Rockingha	am County 2%	Line 0%	0%	С	0.088	F	0.589	5000	G	2014
(602)	Maryland Ave	0.57	4000		31 /6	0 76				0 76		0.000	'	0.509	3000	u	2014
	Manuland Ava	0.42	2800 From	G	97%	0%	US 34 1%	0 Fourth S 2%	0%	0%	F	0.089	F	0.666	2900	G	2014
(602)	Maryland Ave	0.42	<b>2000</b>	<u>. G</u>	31 /6	0 /6		Shenandoa		0 /6	- '	0.009	'	0.000	2900	G	2014
			From	1.				Maryland A				_					
683	1st St	0.38	960	G	97%	1%	1%	1%	0%	0%	С	0.087	F	0.583	1000	G	2014
$\overline{}$			To From	1:			69-101	3 Second	St								
(683)	Railroad St	0.35	340	R								NA			NA		04/07/200
			From	11			69-706;	69-780 2n	d St			<u> </u>					
(683)	Shenandoah River Rd	0.73	260	R								NA			NA		04/11/201
			10	):			NCL S	Shenandoa	h								
	Eleksk Or	0.07	From	<u> </u>			SCL S	Shenandoa	h			<u>ا</u>			NIA		05/00/004
(702)	Eighth St	0.27	150	R								NA			NA		05/09/201
$\overline{}$			From	1:			69-602 N	Maryland A	Ave								
702	Eighth St	0.15	210	R								NA			NA		05/09/201
			To	):			69-1006	Denver A	ive								
$\overline{}$	•		From	·			De	ead End				ᆜ					
704	Quincy Ave	0.28	440	R								NA			NA		04/07/200
_			From	12			ι	JS 340									
704	Quincy Ave	0.12	720	R								NA			NA		04/07/200
<u> </u>			Te	١.			ECL S	Shenandoa	h								
$\overline{}$			From	1:		69-683	Shenandoa	h River R	d; Railroa	nd St							
706	Junior Ave	0.25	220	G	98%	1%	1%	0%	0%	0%	С	0.101	F	0.56	230	G	2014
<u> </u>			To	):			US 3	40 Fifth S	:								
$\overline{}$			From	1.				1st St									
708	Shenandoah Ave	0.21	300	R								NA			NA		04/07/200
$\frac{\circ}{\circ}$			To From	Y:			U	JS 340									
708	Shenandoah Ave	0.36	480	G	99%	1%	1%	0%	0%	0%	С	0.103	F	0.566	500	G	2014
(a)			To	):			69-719; E	CL Shenar	ndoah								
_			From	1:			N	1st St									
712	Senior Ave	0.31	260	R								NA			NA		04/07/200
			To	):			US 3	40 Fifth St									
$\overline{}$			From	1:			69-708; E	CL Shenar	ndoah								
719	Ninth St	0.10	210	R								NA			NA		05/09/201
			From	) ·			69-602 N	Maryland A	Ave								
719	Ninth St	0.10	130	R								NA			NA		05/09/201
(MS)			To	):		(	59-1016 Pe	ennsylvani	a Ave								
_			From	1:			De	ead End									
720	Seventh St	0.34	130	R								NA			NA		05/09/201
(NS)			To	1			69-602 N	Maryland A	Ave			$\neg$ —					
720	Seventh St	0.18	190	R								NA			NA		05/09/201
699			Tr	)·			69-1006	Denver A	ve								
			From	1:			69-720	) Seventh	St								
721	Osceola Ave	0.09	130	R								NA			NA		05/09/201
PA			To	):			ECL S	Shenandoa	h								
			From	1.			69-1020	Central A	ve								
	N First St	0.18	70	R								NA			NA		05/09/201
(725)																	
725			Tc	).			69-712	Senior A	ve								
69	N First St	0.10	90 From	R			69-712	Senior A	ve			NA			NA		04/07/200
(69)	N First St	0.10	90 From	R				Senior A				NA			NA		04/07/200
725		0.10		00			69-729	Williams A	Ave			NA			NA		04/07/200
725	N First St  North Fourth St	0.10	90 To	00			69-729		Ave			NA I NA			NA NA		04/07/200

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Longin	AADI	QA	4Tire Bus 2Axle 3+Axle 1Trail 2Trail	Factor	QK Factor	AAWDT Q	W Year
	From	ı	69-706 Junior Ave	1			
0.20	50	R	07-700 Julio Ave	NA		NA	04/07/200
	To		69-729 Williams Ave				
			69-780 N First St	J			2.1/2=/22
0.23	160			NA —		NA	04/07/200
0.10			US 340 Fifth St			NIA	04/07/000
0.12			Dead End	TIVA		INA	04/07/200
0.19	130	R	0, 000, 0, 7,00	NA		NA	05/09/20
	То		69-729 Williams Ave				
			69-683 1st St	J			
0.21	1200	R		NA 		NA	04/07/200
0.45			US 340			NIA	0.4/07/00/
0.15			69-1008 Sixth St	NA		NA	04/07/200
		l					
0.09		R	09-700 Junoi Ave	NA		NA	04/07/200
			69-712 Senior Ave				
	From		69-1015 Third St				
0.08	240	R		NA		NA	04/07/20
	To						
0.42	490	R	07 1007, Gup	NA		NA	04/09/20
	To		69-692; 69-745				
	From		Dead End				
0.26	310	R		NA		NA	04/07/200
	To From		US 340	]			
0.06			Dood End	NA		NA	04/14/200
		_		+			
0.20			Snenvadaie Ave	NA		NA	05/09/20
	To		60 602 Maryland Ave				
0.20	130 From	R	05-002 Maryland Ave	NA		NA	05/09/20
	To		69-1004 Virginia Ave				
			Dead End				
0.42	100	R		NA		NA	04/07/200
	To From		69-1004 Virginia Ave	<u> </u>			
0.04			60 1006 Danyar Ava	NA		NA	04/07/20
				<u> </u>			
0.07		<u> </u>	US 340; NCL Snenandoan	NA		NA	04/09/20
	To		69-1011 Gregory St				
0.02	<b>70</b> From	R	67-1011 diegoly st	NA		NA	04/09/200
	То		Dead End				
	From		69-1012 Edge Wood Dr				
0.14	70	R	60.4040.14	NA		NA	04/07/20
	To	<u> </u>					
0.10		L	US 340 Fifth St	NA		NA	04/07/200
			(0.1011.0			. */ `	
0.23	140 From		69-1011 Gregory St	NA		NA	04/07/200
0.20			Dead End				
	From		69-708 Shenandoah Ave				
0.08	70	R		NA		NA	04/07/200
	0.20 0.23 0.12 0.19 0.21 0.15 0.09 0.08 0.42 0.26 0.06 0.20 0.20 0.42 0.04 0.07 0.02 0.14 0.10 0.23	0.20 50 To  O.23 160  O.12 200 From  O.19 130 To  O.21 1200  O.15 620 From  O.09 50 To  O.08 240 To  O.08 240 To  O.26 310  O.26 310  O.20 130 From  O.20 130 To  O.21 1200  O.22 70 To  O.23 140	0.20	10,20   50   R   69-706 Junior Ave   69-729 Williams Ave   69-72	10,20   50   R	2AXIE 344ARE 117all 217all Factor Factor Factor   69-705 Junior Ave   NA	2   2   2   2   2   2   2   2   2   2

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Ti		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Shenandoah							un Zirun		1 40101		1 40101			
(1013) Second St	0.34	330	L			69-602 Maryland Ave			NA			NA		04/07/2009
1013		To				69-683 1st St								
O		From				69-708 Shenandoah Ave								
1015 Third St	0.07	140	R						NA —			NA		04/07/2009
(1015) Third St	0.34	310 From	R			69-602 Maryland Ave			NA			NA		04/07/2009
(1015) Third St	0.54	310 To				(0.100( P						INA		04/01/2003
(1015) Third St	0.10	260 From	R			69-1006 Denver Ave			NA			NA		04/07/2009
(1015) Third St		То				69-683 Railroad St; 2nd S	t							
		From				69-683 1st St								
Pennsylvania Ave	0.07	280	R						NA			NA		05/09/201
<u> </u>		From				69-1013 Second St			□					0.4/0.7/0.00
Pennsylvania Ave	0.08	510	R						NA 			NA		04/07/2009
(1016) Pennsylvania Ave	0.07	From From				69-1015 Third St			NA			NA		04/07/2009
Pennsylvania Ave	0.07	770	R						INA			INA		04/07/2003
(1016) Pennsylvania Ave	0.07	370 From	R			US 340			NA			NA		05/09/2012
(1016) Pennsylvania Ave	0.07	To	···			69-1009 Fifth St								00/00/2011
(1016) Pennsylvania Ave	0.07	270 From	R			09-1009 FIIIII St			NA			NA		05/09/2012
Pennsylvania Ave		To				69-1008 Sixth St								
1016 Pennsylvania Ave	0.08	220 From	R			o) 1000 Sixii St			NA			NA		05/09/201
69		To From				69-720; 7th St								
Pennsylvania Ave	0.07	110	R			,			NA			NA		05/09/2012
03)		To From				69-702 Eighth St			_					
1016 Pennsylvania Ave	0.07	100	R						NA			NA		05/09/2012
<u> </u>		To				69-719 Ninth St								
(1017) Long Ave	0.43	400	L R			Dead End			NA			NA		05/09/201
Long Ave	0.40	To	<u> </u>			69-602 Maryland Ave			<b>–</b>			1471		00/00/2011
		From				Cul-de-Sac								
Morrison Rd	0.14	200	R						NA			NA		05/09/2012
		То				69-602 Maryland Ave								
(1019) Warren Ave	0.14	70	R			Dead End			NA			NA		04/11/2012
(1019) Warren Ave	0.14	To	<u> </u>			69-1023, S Second St						INA		04/11/2017
		From				69-683 Railroad St								
1020 Central Ave	0.20	260	R						NA			NA		04/11/2012
ny		To				US 340								
Occurren Ct	0.10	From	Ļ			Dead End						NIA		04/11/001/
(1022) Cocoran St	0.13	80 To	R			69-1023, S Second St			NA			NA		04/11/2012
		From	I			Page County Line; 69-693			1					
1023 S Second St	0.21	120	R			-g and and, 07 07.			NA			NA		04/11/2012
		To From				Liberty Ave								
(1023) S Second St	0.12	160	R						NA			NA		09/05/2006
ua /		To				69-1022; 69-1023			<u> </u>					
Control Ave	0.06	From				Dead End			NIA			NIA		04/11/001
Central Ave	0.06	40 To	R			69-683 Railroad St			NA			NA		04/11/2012
		From				Dead End								
(1026) Liberty Ave	0.19	40	R			Dead Did			NA			NA		04/11/2012
ра		To				US 340								

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Route Town of Shenandoah	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
		From	1-			69-692; 69-745; 69-1006							
Grandios Ave	0.04	210	R					NA			NA		04/09/2009
03		Tr				ECL Shenandoah							

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