

**2010**  
**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.

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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.

**1Trail 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
- M 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  
 Interstate Route Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
-  US Route
-  Virginia State Route
-  Frontage Road (F precedes frontage route number)
-  Secondary Route

## Special Routes

- Bus  
 Bus - Business Route  
Bypas - Bypass Route  
Truck - Truck Route
- ALT  
 ALT - Alternate Route  
Wve - Wve Route connector
-  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 Maintenance 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  
 2010  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 Town of Shenandoah

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: SCL Shenandoah															
 340	Town of Shenandoah (Maint: 69)	1.22	<b>5400</b>	<b>N</b>	96%	1%	1%	1%	1%	0%	N	0.091	N	0.502	5800	N
	To: 69-706 Junior Ave															
 340	Fifth St Town of Shenandoah (Maint: 69)	0.65	<b>5700</b>	<b>G</b>	95%	1%	1%	1%	2%	0%	F	0.089	F	0.521	6200	G
	To: NCL Shenandoah															

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Shenandoah</b>																
(602/69) Maryland Ave	0.37	4200	G	99%	0%	From: Rockingham County Line To: US 340				C	0.098	F	0.626	4600	G	2010
(602/69) Maryland Ave	0.42	2600	G	99%	0%	From: US 340 To: ECL Shenandoah				F	0.101	F	0.603	2800	G	2010
(683/69) 1st St	0.38	840	G	99%	0%	From: 69-602 Maryland Ave To: 69-1013 Second St				C	0.097	F	0.594	910	G	2010
(683/69)	0.35	340	R			From: 69-706; 69-780 To: NCL Shenandoah				NA			NA			04/07/2009
(683/69)	0.73	270	R			From: NCL Shenandoah To: SCL Shenandoah				NA			NA			09/05/2006
(702/69) Eighth St	0.27	170	R			From: SCL Shenandoah To: 69-602 Maryland Ave				NA			NA			04/27/2000
(702/69) Eighth St	0.15	250	R			From: 69-602 Maryland Ave To: 69-1006 Denver Ave				NA			NA			04/27/2000
(704/69) Quincy Ave	0.28	440	R			From: Dead End To: US 340				NA			NA			04/07/2009
(704/69) Quincy Ave	0.12	720	R			From: US 340 To: ECL Shenandoah				NA			NA			04/07/2009
(706/69) Junior Ave	0.25	200	G	97%	2%	From: 69-683 To: US 340 Fifth St				C	0.133	F	0.849	220	G	2010
(708/69) Shenandoah Ave	0.21	300	R			From: 1st St To: US 340				NA			NA			04/07/2009
(708/69) Shenandoah Ave	0.36	450	G	99%	0%	From: US 340 To: 69-719; ECL Shenandoah				C	0.098	F	0.593	490	G	2010
(712/69) Senior Ave	0.31	260	R			From: N 1st St To: US 340 Fifth St				NA			NA			04/07/2009
(719/69) Ninth St	0.10	240	R			From: 69-708; ECL Shenandoah To: 69-602 Maryland Ave				NA			NA			04/27/2000
(719/69) Ninth St	0.10	160	R			From: 69-602 Maryland Ave To: 69-1016 Pennsylvania Ave				NA			NA			04/27/2000
(720/69) Seventh St	0.34	290	R			From: Dead End To: 69-602 Maryland Ave				NA			NA			04/27/2000
(720/69) Seventh St	0.18	240	R			From: 69-602 Maryland Ave To: 69-1006 Denver Ave				NA			NA			04/27/2000
(721/69) Osceola Ave	0.09	170	R			From: 69-720 Seventh St To: ECL Shenandoah				NA			NA			04/27/2000
(725/69) N First St	0.18	130	R			From: 69-1020 Central Ave To: 69-712 Senior Ave				NA			NA			04/27/2000
(725/69) N First St	0.10	90	R			From: 69-712 Senior Ave To: 69-729 Williams Ave				NA			NA			04/07/2009
(728/69) North Fourth St	0.12	60	R			From: 69-1020 Central Ave To: 69-706 Junior Ave				NA			NA			04/07/2009




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						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Shenandoah</b>																
728 69 North Fourth St	0.20	50	R			From: 69-706 Junior Ave					NA			NA		04/07/2009
						To: 69-729 Williams Ave										
729 69 Williams Ave	0.23	160	R			From: 69-780 N First St					NA			NA		04/07/2009
						To: US 340 Fifth St										
729 69 Williams Ave	0.12	200	R			From: Dead End					NA			NA		04/07/2009
						To: 69-683; 69-706										
780 69 N First St	0.19	90	R			From: 69-729 Williams Ave					NA			NA		04/27/2000
						To: 69-683 1st St										
1004 69 Virginia Ave	0.21	1200	R			From: US 340					NA			NA		04/07/2009
						To: 69-1008 Sixth St										
1004 69 Virginia Ave	0.15	620	R			From: 69-706 Junior Ave					NA			NA		04/07/2009
						To: 69-712 Senior Ave										
1005 69 A St	0.09	50	R			From: 69-1015 Third St					NA			NA		04/07/2009
						To: US 340; Gap										
1006 69 Denver Ave	0.08	240	R			From: 69-1009; Gap					NA			NA		04/09/2009
						To: 69-692; 69-745										
1006 69 Denver Ave	0.42	490	R			From: Dead End					NA			NA		04/09/2009
						To: US 340										
1007 69 Pulaski Ave	0.26	310	R			From: US 340					NA			NA		04/07/2009
						To: Dead End										
1007 69 Pulaski Ave	0.06	380	R			From: Dead End					NA			NA		04/14/2009
						To: Shenvadale Ave										
1008 69 Sixth St	0.20	120	R			From: 69-602 Maryland Ave					NA			NA		04/27/2000
						To: 69-1004 Virginia Ave										
1008 69 Sixth St	0.20	150	R			From: Dead End					NA			NA		04/27/2000
						To: 69-1004 Virginia Ave										
1009 69 Fifth St	0.42	100	R			From: 69-1006 Denver Ave					NA			NA		04/07/2009
						To: US 340; NCL Shenandoah										
1009 69 Fifth St	0.04	110	R			From: 69-1011 Gregory St					NA			NA		04/07/2009
						To: Dead End										
1010 69 Marcus St	0.07	180	R			From: 69-1012 Edge Wood Dr					NA			NA		04/09/2009
						To: 69-1010 Marcus St										
1010 69 Marcus St	0.02	70	R			From: US 340 Fifth St					NA			NA		04/07/2009
						To: 69-1011 Gregory St										
1011 69 Gregory St	0.14	70	R			From: Dead End					NA			NA		04/07/2009
						To: 69-1012 Edge Wood Dr										
1011 69 Gregory St	0.14	70	R			From: US 340 Fifth St					NA			NA		04/07/2009
						To: 69-1011 Gregory St										
1012 69 Edge Wood Dr	0.10	180	R			From: Dead End					NA			NA		04/07/2009
						To: 69-708 Shenandoah Ave										
1012 69 Edge Wood Dr	0.23	140	R			From: 69-602 Maryland Ave					NA			NA		04/07/2009
						To: 69-1011 Gregory St										
1012 69 Edge Wood Dr	0.23	140	R			From: Dead End					NA			NA		04/07/2009
						To: 69-708 Shenandoah Ave										
1013 69 Second St	0.08	70	R			From: 69-602 Maryland Ave					NA			NA		04/07/2009
						To: 69-602 Maryland Ave										

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						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Shenandoah</b>																
1013 69 Second St	0.34	330	R			From: 69-602 Maryland Ave					NA		NA			04/07/2009
						To: 69-683 1st St										
1015 69 Third St	0.07	140	R			From: 69-708 Shenandoah Ave					NA		NA			04/07/2009
						To: 69-602 Maryland Ave										
1015 69 Third St	0.34	310	R			From: 69-602 Maryland Ave					NA		NA			04/07/2009
						To: 69-1006 Denver Ave										
1015 69 Third St	0.10	260	R			From: 69-683					NA		NA			04/07/2009
						To: 69-683 1st St										
1016 69 Pennsylvania Ave	0.07	440	R			From: 69-683 1st St					NA		NA			04/27/2000
						To: 69-1013 Second St										
1016 69 Pennsylvania Ave	0.08	510	R			From: 69-1013 Second St					NA		NA			04/07/2009
						To: 69-1015 Third St										
1016 69 Pennsylvania Ave	0.07	770	R			From: 69-1015 Third St					NA		NA			04/07/2009
						To: US 340										
1016 69 Pennsylvania Ave	0.07	450	R			From: US 340					NA		NA			04/27/2000
						To: 69-1009 Fifth St										
1016 69 Pennsylvania Ave	0.07	310	R			From: 69-1009 Fifth St					NA		NA			04/27/2000
						To: 69-1008 Sixth St										
1016 69 Pennsylvania Ave	0.08	280	R			From: 69-1008 Sixth St					NA		NA			04/27/2000
						To: 69-720; 7th St										
1016 69 Pennsylvania Ave	0.07	200	R			From: 69-720; 7th St					NA		NA			04/27/2000
						To: 69-702 Eighth St										
1016 69 Pennsylvania Ave	0.07	110	R			From: 69-702 Eighth St					NA		NA			04/27/2000
						To: 69-719 Ninth St										
1017 69 Long Ave	0.43	390	R			From: Dead End					NA		NA			09/05/2006
						To: 69-602 Maryland Ave										
1018 69	0.14	NA				From: Cul-de-Sac					NA		NA			
						To: 69-602 Maryland Ave										
1019 69 Warren Ave	0.14	50	R			From: Dead End					NA		NA			06/05/2009
						To: 69-1023, S Second St										
1020 69 Central Ave	0.20	260	R			From: 69-683					NA		NA			09/05/2006
						To: US 340										
1022 69	0.13	70	R			From: Dead End					NA		NA			09/05/2006
						To: 69-1023, S Second St										
1023 69 S Second St	0.21	170	R			From: Page County Line; 69-693					NA		NA			06/07/2009
						To: Liberty Ave										
1023 69 S Second St	0.12	160	R			From: Liberty Ave					NA		NA			09/05/2006
						To: 69-1022; 69-1023										
1024 69	0.06	50	R			From: Dead End					NA		NA			09/05/2006
						To: 69-683										
1026 69	0.19	320	R			From: Dead End					NA		NA			09/05/2006
						To: US 340										

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						2Axle	3+Axle	1Trail	2Trail								
<b>Town of Shenandoah</b>																	
						From:	69-692; 69-745; 69-1006										
 Grandios Ave	0.04	210	R			To:	ECL Shenandoah					NA		NA			04/09/2009