2011
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.

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

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 - Business Route
Bypas - Bypass Route
Truck - Truck Route

ALT - Alternate Route
Wye - Wye 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 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
2011
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Shenandoah

Route	Jurisdiction		Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
		From: SCL Shenandoah															
340	Town of Shenandoah (Maint: 69)		1.22	**5700**	**N**	96%	1%	1%	1%	1%	0%	N	0.091	N	0.502	6100	N
		To: 69-706 Junior Ave															
		From: 69-706 Junior Ave															
340 Fifth St	Town of Shenandoah (Maint: 69)		0.65	**6000**	**G**	95%	1%	1%	1%	2%	0%	F	0.089	F	0.521	6500	G
		To: NCL Shenandoah															

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Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Shenandoah																
602 Maryland Ave	0.37	**4400**	**G**	99%	0%	0%	1%	0%	0%	C	0.098	F	0.626	4800	G	2011
From: Rockingham County Line																
To: US 340																
602 Maryland Ave	0.42	**2700**	**G**	99%	0%	0%	1%	0%	0%	F	0.101	F	0.603	2900	G	2011
From: US 340																
To: ECL Shenandoah																
683 1st St	0.38	**870**	**G**	99%	0%	0%	0%	0%	0%	C	0.097	F	0.594	950	G	2011
From: 69-602 Maryland Ave																
To: 69-1013 Second St																
683	0.35	**340**	**R**								NA			NA		04/07/2009
From: 69-1013 Second St																
To: 69-706; 69-780																
683	0.73	**270**	**R**								NA			NA		09/05/2006
From: 69-706; 69-780																
To: NCL Shenandoah																
702 Eighth St	0.27	**170**	**R**								NA			NA		04/27/2000
From: SCL Shenandoah																
To: 69-602 Maryland Ave																
702 Eighth St	0.15	**250**	**R**								NA			NA		04/27/2000
From: 69-602 Maryland Ave																
To: 69-1006 Denver Ave																
704 Quincy Ave	0.28	**440**	**R**								NA			NA		04/07/2009
From: Dead End																
To: US 340																
704 Quincy Ave	0.12	**720**	**R**								NA			NA		04/07/2009
From: US 340																
To: ECL Shenandoah																
706 Junior Ave	0.25	**210**	**G**	97%	2%	0%	0%	0%	0%	C	0.133	F	0.849	230	G	2011
From: 69-683																
To: US 340 Fifth St																
708 Shenandoah Ave	0.21	**300**	**R**								NA			NA		04/07/2009
From: 1st St																
To: US 340																
708 Shenandoah Ave	0.36	**470**	**G**	99%	0%	0%	0%	0%	0%	C	0.098	F	0.593	510	G	2011
From: US 340																
To: 69-719; ECL Shenandoah																
712 Senior Ave	0.31	**260**	**R**								NA			NA		04/07/2009
From: N 1st St																
To: US 340 Fifth St																
719 Ninth St	0.10	**240**	**R**								NA			NA		04/27/2000
From: 69-708; ECL Shenandoah																
To: 69-602 Maryland Ave																
719 Ninth St	0.10	**160**	**R**								NA			NA		04/27/2000
From: 69-602 Maryland Ave																
To: 69-1016 Pennsylvania Ave																
720 Seventh St	0.34	**290**	**R**								NA			NA		04/27/2000
From: Dead End																
To: 69-602 Maryland Ave																
720 Seventh St	0.18	**240**	**R**								NA			NA		04/27/2000
From: 69-602 Maryland Ave																
To: 69-1006 Denver Ave																
721 Osceola Ave	0.09	**170**	**R**								NA			NA		04/27/2000
From: 69-720 Seventh St																
To: ECL Shenandoah																
725 N First St	0.18	**130**	**R**								NA			NA		04/27/2000
From: 69-1020 Central Ave																
To: 69-712 Senior Ave																
725 N First St	0.10	**90**	**R**								NA			NA		04/07/2009
From: 69-712 Senior Ave																
To: 69-729 Williams Ave																
728 North Fourth St	0.12	**60**	**R**								NA			NA		04/07/2009
From: 69-1020 Central Ave																
To: 69-706 Junior Ave																

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Shenandoah																
728 69 North Fourth St	0.20	**50**	From: 69-706 Junior Ave **R** To: 69-729 Williams Ave								NA			NA		04/07/2009
729 69 Williams Ave	0.23	**160**	From: 69-780 N First St **R** To: US 340 Fifth St								NA			NA		04/07/2009
729 69 Williams Ave	0.12	**200**	From: US 340 Fifth St **R** To: Dead End								NA			NA		04/07/2009
780 69 N First St	0.19	**90**	From: 69-683; 69-706 **R** To: 69-729 Williams Ave								NA			NA		04/27/2000
1004 69 Virginia Ave	0.21	**1200**	From: 69-683 1st St **R** To: US 340								NA			NA		04/07/2009
1004 69 Virginia Ave	0.15	**620**	From: US 340 **R** To: 69-1008 Sixth St								NA			NA		04/07/2009
1005 69 A St	0.09	**50**	From: 69-706 Junior Ave **R** To: 69-712 Senior Ave								NA			NA		04/07/2009
1006 69 Denver Ave	0.08	**240**	From: 69-1015 Third St **R** To: US 340; Gap								NA			NA		04/07/2009
1006 69 Denver Ave	0.42	**490**	From: 69-1009; Gap **R** To: 69-692; 69-745								NA			NA		04/09/2009
1007 69 Pulaski Ave	0.26	**310**	From: Dead End **R** To: US 340								NA			NA		04/07/2009
1007 69 Pulaski Ave	0.06	**380**	From: US 340 **R** To: Dead End								NA			NA		04/14/2009
1008 69 Sixth St	0.20	**120**	From: Shenvadale Ave **R** To: 69-602 Maryland Ave								NA			NA		04/27/2000
1008 69 Sixth St	0.20	**150**	From: 69-602 Maryland Ave **R** To: 69-1004 Virginia Ave								NA			NA		04/27/2000
1009 69 Fifth St	0.42	**100**	From: Dead End **R** To: 69-1004 Virginia Ave								NA			NA		04/07/2009
1009 69 Fifth St	0.04	**110**	From: 69-1004 Virginia Ave **R** To: 69-1006 Denver Ave								NA			NA		04/07/2009
1010 69 Marcus St	0.07	**180**	From: US 340; NCL Shenandoah **R** To: 69-1011 Gregory St								NA			NA		04/09/2009
1010 69 Marcus St	0.02	**70**	From: 69-1011 Gregory St **R** To: Dead End								NA			NA		04/09/2009
1011 69 Gregory St	0.14	**70**	From: 69-1012 Edge Wood Dr **R** To: 69-1010 Marcus St								NA			NA		04/07/2009
1012 69 Edge Wood Dr	0.10	**180**	From: US 340 Fifth St **R** To: 69-1011 Gregory St								NA			NA		04/07/2009
1012 69 Edge Wood Dr	0.23	**140**	From: 69-1011 Gregory St **R** To: Dead End								NA			NA		04/07/2009
1013 69 Second St	0.08	**70**	From: 69-708 Shenandoah Ave **R** To: 69-602 Maryland Ave								NA			NA		04/07/2009

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

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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							
Town of Shenandoah																
1027 69 Grandios Ave	0.04	**210**	**R**								NA			NA		04/09/2009
			From: 69-692; 69-745; 69-1006													
			To: ECL Shenandoah													