

**2004**

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

where available

**Special Locality Report**

**156**

Town of Warrenton

Prepared By

**Virginia Department of Transportation  
Mobility Management Division**

In Cooperation With

**U.S. Department of Transportation  
Federal Highway Administration**

Virginia Department of Transportation  
Mobility Management 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 at VDOT Mobility Management's 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’s Mobility Management 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 Peak Hour 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 Peak Hour 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



Secondary Route

## Special Routes



Bus - Business Route

Bypas - Bypass Route

Truck - Truck Route



ALT - Alternate Route

Wve - 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 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  
 Mobility Management Division  
 2004  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 Town of Warrenton

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
15 29 Eastern Bypass	Town of Warrenton (Maint: 30)	From: SCL Warrenton	0.26	29000	F	89%	1%	1%	1%	8%	0%	F	0.073	F	0.653	29000	F
		To: NCL Warrenton															
Bus 15 Bus 17 Bus 29 James Madison Hwy	Town of Warrenton	From: SCL Warrenton	0.34	10000	N	97%	1%	1%	1%	1%	0%	N	0.098	N	0.591	11000	N
		To: US 17 Bus; Shirley Ave															
Bus 15 Falmouth St	Town of Warrenton	From: Lee St	0.78	2800	F	96%	1%	2%	0%	0%	0%	C	0.091	F	0.518	2900	F
		To: Falmouth St															
Bus 15 Falmouth St	Town of Warrenton	From: Main St	0.43	6000	F	98%	1%	1%	0%	0%	0%	C	0.098	F	0.560	6100	F
		To: Falmouth St															
Bus 15 Main St	Town of Warrenton	From: US 211 Bus	0.05	6000	N	98%	1%	1%	0%	0%	0%	N	0.098	N	0.560	6100	N
		To: Alexandria Pike															
Bus 15 Bus 211 Main St	Town of Warrenton	From: Main St	0.01	6000	N	98%	1%	1%	0%	0%	0%	N	0.098	N	0.560	6100	N
		To: King St															
Bus 15 Bus 211 Alexandria Pike	Town of Warrenton	From: King St	0.24	5900	F	98%	1%	1%	0%	0%	0%	C	0.089	F	0.5	6100	F
		To: Blackwell Rd															
Bus 15 Bus 211 Alexandria St	Town of Warrenton	From: Alexandria Pike	0.21	7800	F	98%	1%	0%	0%	0%	0%	F	0.093	F	0.598	8000	F
		To: Blackwell Rd															
Bus 15 Bus 211 Blackwell Rd	Town of Warrenton	From: Alexandria Pike	0.58	8000	F	98%	1%	0%	0%	0%	0%	C	0.093	F	0.594	8200	F
		To: US 29 Bus US 211; Lee Hwy															
Bus 15 Bus 29 Lee Highway	Town of Warrenton	From: US 29 Bus US 211; Blackwell Rd	0.59	33000	F	98%	1%	0%	0%	0%	0%	F	0.085	F	0.519	34000	F
		To: NCL Warrenton															
17	Town of Warrenton (Maint: 30)	From: SCL Warrenton	1.52	15000	F	85%	1%	1%	1%	12%	0%	F	0.072	F	0.511	15000	F
		To: NCL Warrenton															
Bus 17 Bus 15 Bus 29 James Madison Hwy	Town of Warrenton	From: SCL Warrenton	0.34	10000	N	97%	1%	1%	1%	1%	0%	N	0.098	N	0.591	11000	N
		To: Bus US 15															
Bus 17 Bus 29 East Shirley Ave	Town of Warrenton	From: Bus US 15 Falmouth St	0.96	13000	F	97%	1%	1%	0%	0%	0%	C	0.088	F	0.539	13000	F
		To: Culpeper St															
Bus 17 Bus 29 West Shirley Ave	Town of Warrenton	From: Culpeper St	0.80	15000	F	97%	1%	1%	0%	0%	0%	C	0.082	F	0.507	16000	F
		To: Bus US 211 Waterloo St															
Bus 17 Bus 29 211 Broadview Ave	Town of Warrenton	From: Bus US 211 Waterloo St	0.86	35000	F	98%	1%	1%	0%	0%	0%	C	0.081	F	0.53	35000	F
		To: Bus US 29 Lee Hwy															

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							2Axle	3+Axle	1Trail	2Trail							
Bus 17 Broadview Ave	Town of Warrenton	From: Bus US 29 Lee Hwy To: NCL Warrenton	0.57	11000	F	98%	1%	1%	0%	0%	0%	C	0.098	F	0.528	11000	F
29 15 Eastern Bypass	Town of Warrenton (Maint: 30)	From: SCL Warrenton To: NCL Warrenton	0.26	29000	F	89%	1%	1%	1%	8%	0%	F	0.073	F	0.653	29000	F
Bus 29 Bus 15 Bus 17 James Madison Hwy	Town of Warrenton	From: SCL Warrenton To: BUS US 17 Shirley Ave	0.34	10000	N	97%	1%	1%	1%	1%	0%	N	0.098	N	0.591	11000	N
Bus 29 Bus 17 East Shirley Ave	Town of Warrenton	From: BUS US 15 To: Culpeper St	0.96	13000	F	97%	1%	1%	0%	0%	0%	C	0.088	F	0.539	13000	F
Bus 29 Bus 17 West Shirley Ave	Town of Warrenton	From: US 17, US 211 To: US 17	0.80	15000	F	97%	1%	1%	0%	0%	0%	C	0.082	F	0.507	16000	F
Bus 29 Bus 17 Bus 211 Broadview Ave	Town of Warrenton	From: Bus US 17 Broadview Ave To: Bus US 15 Blackwell Rd	0.86	35000	F	98%	1%	1%	0%	1%	0%	C	0.081	F	0.53	35000	F
Bus 29 Bus 211 Lee Highway	Town of Warrenton	From: BUS US 15 To: NCL Warrenton	0.59	33000	F	98%	1%	0%	0%	0%	0%	F	0.085	F	0.519	34000	F
211 Frost Ave	Town of Warrenton	From: WCL Warrenton To: 0.04 Miles West of Shirley Ave	0.44	26000	G	96%	1%	2%	0%	1%	0%	C	NA			26000	G
211 Frost Ave	Town of Warrenton	From: Shirley Ave; US 17 Bus To: BUS US 17 BUS US 29, BUS US 211	0.04	25000	F	96%	1%	2%	0%	1%	0%	F	0.089	F	0.688	25000	F
211 Bus 17 Bus 29 Broadview Ave	Town of Warrenton	From: BUS US 17 To: ECL WARRENTON	0.86	35000	F	98%	1%	1%	0%	1%	0%	C	0.081	F	0.53	35000	F
211 Bus 29 Lee Highway	Town of Warrenton	From: Broadview Ave To: Diagonal St	0.62	8900	G	96%	1%	2%	0%	0%	0%	C	NA			8900	G
211 Waterloo St	Town of Warrenton	From: US 15 Bus To: Bus US 15	0.10	7000	F	96%	1%	2%	0%	0%	0%	F	0.105	F	0.542	7200	F
211 Bus 15 Main St	Town of Warrenton	From: Bus US 15 To: Alexandria Pike	0.01	6000	N	98%	1%	1%	0%	0%	0%	N	0.098	N	0.560	6100	N



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							2Axle	3+Axle	1Trail	2Trail							
Bus 211 / Bus 15 Alexandria Pike	Town of Warrenton	0.24	5900	F	98%	1%	1%	0%	0%	0%	C	0.089	F	0.5	6100	F	
Bus 211 / Bus 15 Alexandria St	Town of Warrenton	0.21	7800	F	98%	1%	0%	0%	0%	0%	F	0.093	F	0.598	8000	F	
Bus 211 / Bus 15 Blackwell Rd	Town of Warrenton	0.58	8000	F	98%	1%	0%	0%	0%	0%	C	0.093	F	0.594	8200	F	

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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 Warrenton</b>																
(2) Alexandria Pike	0.58	270	F	95%	3%	1%	0%	0%	0%	C	0.124	F	0.579	270	F	2004
				From:	Blackwell Rd											
				To:	Dead End											
(3) Oak Springs Dr	0.26	4600	F	99%	1%	0%	0%	0%	0%	C	0.116	F	0.521	4700	F	2004
				From:	Broadview Ave											
				To:	Branch Dr											
(4) Branch Dr	0.19	2400	F	97%	1%	2%	0%	0%	0%	C	0.107	F	0.524	2500	F	2004
				From:	Lee Hwy											
				To:	Oak Springs Dr											
(880) Bear Wallow Rd	0.49	4600	F	95%	1%	1%	3%	0%	0%	C	0.104	F	0.718	4700	F	2004
				From:	WCL Warrenton											
				To:	Broadview Ave											
(886) Waterloo Rd	0.58	2800	F	98%	1%	1%	0%	0%	0%	C	0.129	F	0.808	2900	F	2004
				From:	WCL Warrenton											
				To:	Rappahannock St											
(886) Rappahannock St	0.03	1800	F	98%	1%	1%	0%	0%	0%	F	0.152	F	0.929	1900	F	2004
				From:	Waterloo Rd											
				To:	US 211 Frost Ave											
(893) Meetze Rd	0.37	9400	F	98%	0%	1%	0%	0%	0%	C	0.095	F	0.524	9600	F	2004
				From:	Falmouth St											
				To:	ECL Warrenton											
(1893) Winchester St	0.42	3500	F	99%	0%	1%	0%	0%	0%	C	0.097	F	0.518	3600	F	2004
				From:	Alexandria St											
				To:	King St											
(1893) Winchester St	0.69	4100	F	99%	0%	1%	0%	0%	0%	C	0.09	F	0.566	4200	F	2004
				From:	King St											
				To:	Lee Hwy											
(1894) Culpeper St	0.38	2600	F	99%	0%	0%	0%	0%	0%	C	0.099	F	0.61	2600	F	2004
				From:	Shirley Ave											
				To:	Hotel St											
(1894) Culpeper St	0.04	1800	F	99%	0%	0%	0%	0%	0%	F	0.102	F		1800	F	2004
				From:	Hotel St											
				To:	Main St											
(1895) Old Broadview Ave	0.17	5400	F	99%	0%	0%	0%	0%	0%	C	0.093	F	0.546	5500	F	2004
				From:	US15											
				To:	US 17											
Branch Dr		4900	F								0.094	F	0.524	5400	F	2004
				From:	Lee Hwy											
				To:	Arbor Ct											
East St		220	F								0.121	F	0.5	240	F	2004
				From:	Main St											
				To:	ECL. Warrenton											