

**2003**

**Virginia Department of Transportation  
Daily Traffic Volume Estimates**

**Special Locality Report**

**111**

City of Fredericksburg

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 - 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  
 Mobility Management Division  
 2003  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 City of Fredericksburg

Route	Length	AADT	QA	Year
<b>City of Fredericksburg</b>				
From: SCL Fredericksburg				
1 Jefferson Davis Blvd	1.48	33000	A	2003
To: SR 3				
1 Jefferson Davis Blvd	0.90	29000	G	2003
To: College Ave				
1 Jefferson Davis Blvd	0.59	35000	G	2003
To: Fall Hill Ave				
1 Jefferson Davis Blvd	0.29	23000	G	2003
To: Bus US 1 Princess Anne Ave				
1 Jefferson Davis Blvd	0.11	31000	N	2003
To: NCL Fredericksburg				
From: SCL Fredericksburg				
1 LaFayette Blvd	1.42	21000	G	2003
To: SR 3; Blue and Grey Parkway				
1 LaFayette Blvd	0.38	11000	G	2003
To: 111-3957 Sunken Rd				
1 LaFayette Blvd	0.56	9800	G	2003
To: 111-3961 Kenmore Ave				
1 LaFayette Blvd	0.10	5700	N	2003
To: Bus US 1 Par, Bus 17 Par Princess Anne St				
1 LaFayette Blvd	0.06	5700	G	2003
To: Bus US 17 Caroline St				
1 Caroline St	0.38	5300	G	2003
Combined Traffic:		12000	G	
To: Bus SR 3 William St				
1 Caroline St	0.51	5700	G	2003
Combined Traffic:		15000	G	
To: Herndon St				
1 Herndon St	0.06	5400	G	2003
To: Bus US 1 Par Princess Anne St				
1 Princess Anne St	0.70	12000	G	2003
To: Bus US 1 Par Herndon St				
1 Princess Anne St	0.37	7000	G	2003
To: US 1 Jefferson Davis Highway				
1 Princess Anne St	0.37	7000	G	2003
Combined Traffic:		12000	G	
To: Bus SR 3 William St				
1 Princess Anne St	0.52	9000	G	2003
Combined Traffic:		15000	G	
To: Bus US 1 Herndon St				
From: ECL Fredericksburg				
2 Dixon St	0.55	25000	G	2003
To: Howison Ave				
From: Glover St				
2 Dixon St	0.26	10000	G	2003
To: Charles St				
2 Dixon St	0.06	4700	G	2003
Combined Traffic:		11000	G	
To: Princess Anne St				

Route	Length	AADT	QA	Year
<b>City of Fredericksburg</b>				
From: Dixon St				
2 Charles Street	0.26	5800	G	2003
Combined Traffic:		8200	G	
To: Bus US 1				
From: Princess Anne St				
2 Princess Anne St	0.37	7000	G	2003
Combined Traffic:		12000	G	
To: Bus SR 3 William St				
From: WCL Fredericksburg				
3 Plank Rd	0.34	79000	G	2003
To: I-95				
3 Plank Rd	0.61	57000	G	2003
To: Oakwood St				
3 Plank Rd	0.63	45000	G	2003
To: US 1 Jefferson Davis Hwy				
3	0.24	40000	G	2003
To: Bus SR 3 William St				
3 Blue and Grey Parkway	0.53	28000	G	2003
To: Bus US 1 LaFayette Blvd				
3 Blue and Grey Parkway	1.00	31000	G	2003
To: Bus US 17 SR 2 Dixon St				
3 Blue and Grey Parkway	0.36	31000	G	2003
To: ECL Fredericksburg				
From: SR 3 Blue and Grey Parkway				
3 William St	0.14	16000	G	2003
To: 111-3958 Hanover St				
3 William St	0.30	13000	G	2003
To: 111-3955 College Ave				
3 William St	0.48	13000	G	2003
To: SR 3 Par, Washington Ave				
3 William St	0.37	6300	G	2003
Combined Traffic:		12000	G	
To: Bus US 1 Caroline St				
3 William St	0.07	7700	G	2003
Combined Traffic:		15000	G	
To: Bus SR 3 Par, Sophia St				
3 William St	0.03	17000	G	2003
To: ECL Fredericksburg				
From: Bus SR 3 William St				
3 Washington Ave	0.07	6100	G	2003
Combined Traffic:		12000	G	
To: 111-3963 Amelia St				
From: 111-3963, Washington Ave				
3 Amelia St	0.43	5300	G	2003
Combined Traffic:		12000	G	
To: 111-3973 Sophia St				
From: 111-3973, Amelia St				
3 Sophia St	0.07	7000	G	2003
Combined Traffic:		15000	G	
To: Bus SR 3 William St				
From: SCL Fredericksburg				
17 Dixon St	0.89			See I-95
Combined Traffic:		101000	G	
To: SR 3				

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Route	Length	AADT	QA	Year
<b>City of Fredericksburg</b>				
From SR 3				
(17) (95)	2.29		See I-95	
Combined Traffic: <b>140000</b> G				
To Stafford County Line				
From ECL Fredericksburg				
Bus (17) Dixon St	0.55	25000	G	2003
To Ramp from Rte. 3 Connector				
From Dixon St				
Bus (17) Dixon St	0.26	10000	G	2003
To Charles St				
From Dixon St				
Bus (17) Dixon St	0.06	4700	G	2003
Combined Traffic: <b>11000</b> G				
To Princess Anne St				
From Dixon St				
Bus (17) Dixon St	0.06	2400	G	2003
Combined Traffic: <b>8200</b> G				
To Caroline St				
From Dixon Street				
Bus (17) Caroline Street	0.24	2400	G	2003
Combined Traffic: <b>8200</b> G				
To Lafayette Blvd				
From Caroline St				
Bus (17) (1) Caroline St	0.38	5300	G	2003
Combined Traffic: <b>12000</b> G				
To Bus SR 3 William St				
From Caroline St				
Bus (17) (1) Caroline St	0.51	5700	G	2003
Combined Traffic: <b>15000</b> G				
To Herndon St				
From Caroline St				
Bus (17) (1) Herndon St	0.06	5400	G	2003
To BUS US 1 Par Princess Anne St				
From BUS US 1 Par Herndon St				
Bus (17) (1) Princess Anne St	0.70	12000	G	2003
To US 1 Jefferson Davis Highway				
From BUS US 1 Princess Anne Ave				
Bus (17) (1) Jefferson Davis Blvd	0.11	31000	N	2003
To NCL Fredericksburg				
From Dixon Street				
Bus (17) Charles Street	0.26	5800	G	2003
Combined Traffic: <b>8200</b> G				
To Bus US 1, Bus US 17 Lafayette Blvd				
From SCL Fredericksburg				
North (95)	0.89	49000	G	2003
Combined Traffic: <b>101000</b> G				
To SR 3				
From SR 3				
North (95)	2.29	74000	G	2003
Combined Traffic: <b>140000</b> G				
To Stafford County Line				
From SCL Fredericksburg				
South (95)	1.61	52000	G	2003
Combined Traffic: <b>101000</b> G				
To SR 3				
From SR 3				
South (95)	1.76	66000	F	2003
Combined Traffic: <b>140000</b> G				
To Stafford County Line				
From 111-3976 Powhatan St				
(1) Cowan Blvd	0.61	NA		
To Dead End				

Route	Length	AADT	QA	Year
<b>City of Fredericksburg</b>				
From Jefferson Davis Blvd				
(3950) Twin Lake Dr	0.46	3200	G	2003
To Lafayette Blvd				
From WCL Fredericksburg				
(3952) Lansdowne Road	0.47	6900	G	2003
To C2US 17 Bus				
From William Street				
(3953) Stafford Avenue	0.50	1900	G	2003
To Jefferson Davis Highway				
From Cardwell St				
(3954) Howison St	0.09	600	G	2003
To Howard Ave				
From Howard Avenue				
(3954) Howison Avenue	0.16	1400	G	2003
To Dixon Street				
From William Street				
(3955) College Ave	0.67	6600	G	2003
To Jefferson Davis Highway				
From Bus US 1 Lafayette Blvd				
(3957) Sunken Rd	0.28	230	G	2003
To 111-3958 Hanover St				
From Sunken Rd				
(3957) Sunken Rd	0.18	430	G	2003
To Bus SR 3 William St				
From Bus SR 3 William St				
(3958) High St	0.04	790	G	2003
To Hanover St				
From High St				
(3958) Hanover St	0.60	3100	G	2003
To 111-3959 Littlepage St				
From Hanover St				
(3958) Hanover St	0.49	1000	G	2003
To Bus US 1 Par Princess Anne St				
From Hanover St				
(3958) Hanover St	0.12	810	G	2003
To 111-3973 Sophia St				
From Bus US 1 Lafayette Blvd				
(3959) Littlepage St	0.44	2100	G	2003
To Bus SR 3 William St				
From Bus US 1 Lafayette Blvd				
(3961) Kenmore Ave	0.49	4400	G	2003
To Bus SR 3 William St				
From Kenmore Ave				
(3961) Kenmore Ave	0.40	1600	G	2003
To Mary Ball St				
From Kenmore Ave				
(3961) Mary Ball St	0.10	2000	G	2003
To 111-6963 Washington Ave				
From Bus SR 3 P Amelia St				
(3963) Washington Ave	0.43	2300	G	2003
To 111-3975 Maury St				
From Washington Ave				
(3963) Washington Ave	0.44	2500	G	2003
To 111-3965; Fall Hill Ave				
From Kenmore Avenue				
(3965) Prince Edward St	0.35	3200	G	2003
To William Street				
From Prince Edward St				
(3965) Prince Edward St	0.44	2300	G	2003
To Canal Street				
From Fall Hill Avenue				
(3965) Fall Hill Avenue	0.10	2600	G	2003
To Maury Street				



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<b>City of Fredericksburg</b>				
From: Maury Street				
3965 Fall Hill Avenue	0.39	3500	G	2003
To: Washington Street				
From: Washington Street				
3965 Fall Hill Avenue	0.15	10000	G	2003
To: Jefferson Davis Highway				
From: Jefferson Davis Highway				
3965 Fall Hill Avenue	1.59	17000	G	2003
To: I-95				
From: I-95				
3965 Fall Hill Avenue	0.95	16000	G	2003
To: WCL Fredericksburg				
From: Bus 17 Dixon St				
3967 Charles Street	0.24	NA		
To: Bus 1 Lafayette Blvd				
From: Lafayette Blvd				
3973 Sophia St	0.37	5500	G	2003
To: Bus SR 3 William St				
From: Washington St				
3975 Maury Street	0.14	2000	G	2003
To: Fall Hill Avenue				
From: Plank Rd				
3976 Westwood Dr	0.20	1900	G	2003
To: Woodland Dr				
From: Westwood Dr				
3976 Woodland Rd	0.04	NA		
To: Falling Creek Rd				
From: Falling Creek Rd				
3976 Keenland Road	0.36	1800	G	2003
To: Cowan Boulevard				
From: Cowan Blvd				
3976 Powhatan Street	0.24	5200	G	2003
To: Jefferson Davis Hwy				
From: 0.35 Mi W Powhatan St				
Cowan Boulevard		4900	G	2003
To: Powhatan St				
From: Charlotte Street				
Jackson Street		1100	G	2003
To: Wolfe Street				
From: Fauquier St				
Sophia St		2400	G	2003
To: Lewis St				
From: Railroad Avenue				
Summit Street		100	G	2003
To: White Street				
From: Goodloe Drive				
Twin Lakes Drive		3500	G	2003
To: Lafayette Blvd				
From: Westwood Dr				
Woodland Drive		2100	G	2003
To: Falling Creek				