

2003

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

Special Locality Report

100

City of Alexandria

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.

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 Alexandria

Route	Length	AADT	QA	Year
City of Alexandria				
From SCL Alexandria, I-95, I-495	0.51	70000	G	2003
To Franklin St	0.15	70000	N	2003
From Wilkes St, US 1 Par	0.36	23000	F	2003
Henry St	Combined Traffic: 48000	F		
From King St	0.72	20000	F	2003
Henry St	Combined Traffic: 42000	F		
From 1st St	0.44	52000	F	2003
Patrick St				
From Monroe Ave	1.35	41000	F	2003
Jefferson Davis Hwy				
To NCL Alexandria				
From Wilkes St	0.36	25000	F	2003
Patrick St	Combined Traffic: 48000	F		
From SR 7 King St	0.72	22000	F	2003
Patrick St	Combined Traffic: 42000	F		
To 1st Street				
From WCL Alexandria	1.09	46000	F	2003
King St				
From I-395	0.65	19000	G	2003
King St				
From Braddock Rd	1.91	15000	F	2003
King St				
From Russell Rd	0.38	17000	F	2003
King St				
From West St	0.48	7800	F	2003
King St				
To Washington St				
From Fairfax County Line	0.37	70000	F	2003
North 95 Capital Beltway	Combined Traffic: 142000	F		
	<i>Capital Beltway is also signed as I-495</i>			
To US 1				
From US 1	0.95	78000	F	2003
North 95 Capital Beltway	Combined Traffic: 150000	F		
	<i>Capital Beltway is also signed as I-495</i>			
To District of Columbia Line, Potomac River				
From Fairfax County Line	0.71	73000	F	2003
South 95 Capital Beltway	Combined Traffic: 142000	F		
	<i>Capital Beltway is also signed as I-495</i>			
To US 1				
From US 1	0.61	72000	F	2003
South 95 Capital Beltway	Combined Traffic: 150000	F		
	<i>Capital Beltway is also signed as I-495</i>			
To District of Columbia Line, Potomac River				
From Fairfax County Line	0.06	41000	N	2003
236 Duke Street				
To WCL Alexandria				

Route	Length	AADT	QA	Year
City of Alexandria				
From WCL Alexandria	0.34	62000	F	2003
236 Duke St				
From I-395	0.32	65000	F	2003
236 Duke St				
From SR 401 Van Dorn St	0.36	34000	G	2003
236 Duke St				
From N Pickett St	2.66	30000	F	2003
236 Duke St				
From SR 241 Telegraph Rd	1.26	24000	F	2003
236 Duke St				
From US 1 SB Henry St	0.24	11000	F	2003
236 Duke St				
To SR 400 Washington St				
From Fairfax County Line	0.39	50000	N	2003
241 Telegraph Rd				
From Maintenance Break	0.21	52000	F	2003
241 Telegraph Rd				
To SR 236 WB				
From Fairfax County Line	0.21	74000	A	2003
North 395	Combined Traffic: 180000	A		
To SR 236 Duke St				
From SR 236 Duke St	1.64	73000	G	2003
North 395	Combined Traffic: 176000	G		
To Seminary Rd				
From Seminary Rd	1.11	77000	G	2003
North 395	Combined Traffic: 179000	G		
To SR 7 King St, Arlington County Line				
From Quaker Lane, Arlington County Line	0.26	70000	G	2003
North 395	Combined Traffic: 163000	G		
To Arlington County Line				
From Fairfax County Line	2.19	27000	A	2003
Rev 395	Combined Traffic: 180000	A		
To Seminary Rd				
From Seminary Rd	0.71	30000	G	2003
Rev 395	Combined Traffic: 179000	G		
To Arlington County Line, SR 7 Underpass				
From Quaker Lane; Arlington County Line	0.26	30000	G	2003
Rev 395	Combined Traffic: 163000	G		
To Arlington County Line				
From Fairfax County Line	0.71	78000	A	2003
South 395	Combined Traffic: 180000	A		
To SR 236 Duke St				
From SR 236 Duke St	1.44	76000	G	2003
South 395	Combined Traffic: 176000	G		
To Seminary Rd				
From Seminary Rd	0.75	72000	G	2003
South 395	Combined Traffic: 179000	G		
To SR 7 King St, Arlington County Line				

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Route	Length	AADT	QA	Year	
City of Alexandria					
South 395	From: Quaker Lane, Arlington County Line To: Arlington County Line	0.26	63000	G	2003
	Combined Traffic:	163000	G		
400	From: George Washington Memorial Parkway SCL To: Washington St	0.91	26000	F	2003
400	From: SR 236 Duke St To: Washington St	0.32	29000	F	2003
400	From: Queen St To: Washington St	0.39	34000	F	2003
400	From: Madison St To: Washington St	0.17	32000	F	2003
	To: 1st Street; George Washington Memorial Parkway				
401	From: SCL Alexandria To: Van Dorn St	0.62	48000	F	2003
401	From: Edsall Rd To: Van Dorn St	0.43	32000	F	2003
401	From: SR 236 Duke St To: Van Dorn St	1.56	22000	F	2003
	To: Seminary Ave				
402	From: SR 420 Seminary Rd To: Quaker Lane	0.69	19000	F	2003
402	From: SR 7 King St To: Quaker Lane	0.96	21000	F	2003
	To: I-395				
420	From: I-395 Shirley Hwy, 100-6706 To: Seminary Rd	1.72	15000	F	2003
420	From: SR 402 Quaker Lane To: Janneys La	1.03	6800	F	2003
	To: SR 7				
90005 400	From: SCL Alexandria To: Washington St	0.91	26000	F	2003
90005 400	From: SR 236 Duke St To: Washington St	0.32	29000	F	2003
90005 400	From: Queen St To: Washington St	0.39	34000	F	2003
90005 400	From: Madison St To: Washington St	0.17	32000	F	2003
	To: 1st Street				
90005	From: George Washington Memorial Par To: NCL Alexandria	1.81	33000	O	2003
1	From: Commonwealth Ave To: Cameron St	1.00	5700	F	2003
	To: Fairfax St				
2	From: Duke St To: Daingerfield Rd	0.19	5700	F	2003
	To: King St				
3	From: Seminary Rd To: Filmore Ave	0.36	3100	F	2003
	To: N Beauregard St				
4	From: Patrick St To: Franklin St	0.40	2900	F	2003
	To: Fairfax St				

Route	Length	AADT	QA	Year	
City of Alexandria					
5	From: Patrick St To: Gibbon St	0.40	2100	F	2003
	To: Fairfax St				
6	From: Eisenhower Ave To: Holland La	0.32	9100	F	2003
	To: Duke St				
7	From: SR 400 To: King Street	0.24	5500	F	2003
	To: 100-21 Fairfax Street				
8	From: Breckenridge Pl To: Lincolnia Rd	0.11	5600	F	2003
	To: Beauregard St				
9	From: W Eisenhower Ave To: Mill Rd	0.88	4600	F	2003
	To: E Eisenhower Ave				
10	From: Fairfax St To: Montgomery St	0.48	3900	F	2003
	To: Henry St				
11	From: West St To: Pendleton St	0.66	3400	F	2003
	To: Fairfax St				
12	From: Telegraph Rd To: Pershing Ave	0.16	9000	F	2003
	To: Stovall St				
13	From: Reinekers Ln To: Prince St	0.50	7100	F	2003
13	From: US 1 Pratick St To: Prince St	0.42	2100	F	2003
	To: Fairfax St				
14	From: US 1 To: Slaters La	0.38	12000	F	2003
	To: George Washington Memorial Pkwy				
15	From: Walker St To: Stevenson Ave	0.16	11000	F	2003
	To: S Van Dorn St				
16	From: 100-6588; Eisenhower Ave To: Stoval Street	0.13	10000	F	2003
	To: 100-9 Mill Rd				
17	From: Stevenson Rd To: Walker St	0.10	22000	F	2003
	To: SR 236 Duke St				
18	From: Duke St To: West St	0.63	4800	F	2003
	To: Wythe St				
19	From: Washington St To: 1st Street	0.06	5200	F	2003
	To: Asaph St				
19	From: 1st Street To: 1st Street	0.05	3700	F	2003
	To: Pitt St				
20	From: West St To: Wythe St	0.66	4400	F	2003
	To: Fairfax St				
21	From: Franklin St To: Fairfax St	1.12	5900	F	2003
	To: Montgomery St				

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Route	Length	AADT	QA	Year
City of Alexandria				
(22) Church Street	0.09	6100	F	2003
From: I-95 Ramp				
To: SR 400 South Washington St				
(6500) Duke St	0.23	2700	F	2003
From: Washington St				
To: Fairfax St				
(6572) Edsall Rd	0.49	16000	F	2003
From: WCL Alexandria				
To: Van Dorn St				
(6572) Edsall Rd	0.24	11000	F	2003
From: Van Dorn St				
To: S Pickett St				
(6573) Van Dorn St	1.08	6600	F	2003
From: Seminary Rd				
To: King St SR 7				
(6575) S Pickett St	0.36	12000	F	2003
From: Van Dorn St				
To: Edsall Rd				
(6575) S Pickett St	0.57	17000	F	2003
From: Edsall Rd				
To: Duke St SR 236				
(6579) Clermont Ave	0.13	14000	F	2003
From: Ramp To I-95 Ramp Fr I-95				
To: 100-6588 Eisenhower Ave				
(6583) W Taylor Run Pkwy	0.52	3500	F	2003
From: Duke St				
To: Janneys La				
(6584) Pitt St	0.07	4000	F	2003
From: Montgomery St				
To: ISt Street				
(6585) Commonwealth Ave	0.94	6300	F	2003
From: King St				
To: Monroe Ave				
(6585) Commonwealth Ave	0.79	5400	F	2003
From: Monroe Ave				
To: Mt Vernon Ave				
(6585) Commonwealth Ave	0.41	3800	F	2003
From: Mt Vernon Ave				
To: Reed St				
(6586) Diagonal Rd	0.30	6800	G	2003
From: Duke St				
To: King St				
(6587) Powhatan St	0.45	2700	F	2003
From: Washington St				
To: US 1 Jefferson Davis Hwy				
(6588) Eisenhower Ave	0.94	9900	F	2003
From: SR 241 Telegraph Rd				
To: Holland La				
(6591) Mt Vernon Ave	1.21	8700	F	2003
From: Braddock Rd				
To: Commonwealth Ave				
(6591) Mt Vernon Ave	1.00	11000	F	2003
From: Commonwealth Ave				
To: NCL Alexandria				
(6592) Braddock Rd	1.72	12000	F	2003
From: Beauregard St				
To: King St				
(6592) Braddock Rd	1.39	11000	F	2003
From: King St				
To: Russell Rd				
(6592) Braddock Rd	0.77	6800	F	2003
From: Russell Rd				
To: West St				

Route	Length	AADT	QA	Year
City of Alexandria				
(6593) Callahan Dr	0.22	15000	F	2003
From: Duke St SR 236				
To: King St SR 7				
(6593) Russell Rd	0.89	9000	F	2003
From: SR 7 King St				
To: Monroe Ave				
(6593) Russell Rd	0.31	6100	F	2003
From: Monroe Ave				
To: Windsor Ave				
(6593) Russell Rd	1.06	6400	F	2003
From: Windsor Ave				
To: Glebe Rd				
(6593) Russell Rd	0.16	5600	F	2003
From: Glebe Rd				
To: Mt Vernon Ave				
(6594) Gunston Rd	0.26	2100	F	2003
From: Quaker Lane				
To: Valley Dr				
(6595) Quaker La	0.62	24000	F	2003
From: Duke St				
To: Seminary Rd				
(6595) Valley Dr	1.33	820	F	2003
From: Glebe Rd				
To: Braddock Rd				
(6596) Monroe Ave	0.79	10000	F	2003
From: Russell Rd				
To: US 1				
(6597) Monticello Blvd	0.21	2600	F	2003
From: Russell Rd				
To: Old Dominion Blvd				
(6597) Old Dominion Blvd	0.71	820	F	2003
From: Monticello Blvd				
To: Glebe Rd				
(6597) Tennessee Ave	0.17	1500	F	2003
From: Old Dominion Blvd				
To: Halcyon Dr				
(6597) Tennessee Ave	0.25	1500	N	2003
From: Halcyon Dr				
To: Valley Dr				
(6597) Martha Custis Dr	0.52	4500	F	2003
From: Valley Dr				
To: Gunston Rd				
(6599) Cameron Mill Rd	0.39	1600	F	2003
From: Braddock Rd				
To: Summit Ave				
(6600) Crest St	0.27	1200	F	2003
From: Braddock Rd				
To: Valley Dr				
(6600) Summit Ave	0.27	1500	F	2003
From: Valley Dr				
To: Cameron Mills Rd				
(6600) Monticello Blvd	0.23	2600	F	2003
From: Cameron Mills Rd				
To: Old Dominion Blvd				
(6601) Scroggins Rd	0.36	1400	F	2003
From: King St				
To: Braddock Rd				
(6602) W Glebe Rd	0.94	16000	F	2003
From: NCL Alexandria				
To: Mount Vernon Ave				
(6602) W Glebe Rd	0.62	9800	F	2003
From: Mount Vernon Ave				
To: US 1				
(6604) Reed Ave	0.54	3600	F	2003
From: Mt Vernon Ave				
To: US 1				

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City of Alexandria				
From: WCL Alexandria				
6622 Beaugard St	2.34	19000	F	2003
To: Braddock Rd				
6622 Beaugard St	0.28	16000	F	2003
To: SR 7 King St				
6622 Walter Reed Dr	0.07	14000	F	2003
To: NCL Alexandria				
6698 Taney Dr	1.04	2700	F	2003
To: Jordan St				
6701 Pegram St	0.78	2800	F	2003
To: Pickett St				
6701 Pickett St	0.15	3300	F	2003
To: Seminary Rd				
6702 Sanger Ave	0.37	12000	F	2003
To: Van Dorn St				
6703 Jordan St	0.94	6000	F	2003
To: Seminary Rd SR 420				
6706 Seminary Rd	0.60	39000	F	2003
To: Fairfax County Line, 29-716				
6706 Seminary Rd	0.22	49000	F	2003
To: I-395 Shirley Hwy, SR 420				
6707 Howard St	0.92	4700	F	2003
To: Braddock Rd				
6711 N Hampton St	0.43	3900	F	2003
To: King St				
Braddock Rd.		14000	F	2003
To: Crest St				
Canterbury La		240	F	2003
To: Trinity Dr				
Clifford Ave.		420	F	2003
To: Montross Ave				
Curtis Ave.		320	F	2003
To: Rosecrest Ave				
Glendale Ave.		290	F	2003
To: Wayne St.				
Green St.		2900	F	2003
To: Asaph St.				
Hickory St.		230	F	2003
To: Dead End				
Kentucky Ave		370	F	2003
To: Russell Rd				

Route	Length	AADT	QA	Year
City of Alexandria				
From: Francis Hammond Pkwy.				
Key Dr.		200	F	2003
To: Roan La.				
Mansion Dr.		290	F	2003
To: Russell Rd				
Mount Vernon Ave.		7200	F	2003
To: Nelson Ave				
N. Owen St.		130	F	2003
To: Polk Ave				
Old Dominion Blvd.		970	F	2003
To: Halcyan Dr				
Rayburn Ave		1200	F	2003
To: N. Beaugard St				
Ridge Rd.		250	F	2003
To: Fordham Rd				
Rose Crest Ave.		390	F	2003
To: Custis Ave				
S Picket St		6300	F	2003
To: Dead End				
S. French St.		670	F	2003
To: Duke St				
S. Yoakum St.		6500	F	2003
To: Stevenson Rd				
Stewart Ave.		450	F	2003
To: Dewitt Ave				
Ulane Ave.		540	F	2003
To: N. Grayson St.				
West St.		5200	F	2003
To: Oronoco St				