

2003

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

Special Locality Report

129

City of Salem

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 Salem

Route	Length	AADT	QA	Year
City of Salem				
From: WCL Salem				
11 West Main St	1.12	24000	F	2003
To: SR 112				
11 West Main St	1.31	24000	F	2003
To: ALT US 460, 4th St				
11 West Main St	0.60	15000	F	2003
To: Academy St				
11 West Main St	0.35	14000	F	2003
To: College Ave				
11 College Ave	0.26	2700	F	2003
To: SR 311, Thompson Memorial Dr				
11 College Ave	0.48	7700	F	2003
To: Colorado St				
11 Colorado St	0.51	17000	F	2003
To: Apperson Dr				
11 Apperson Dr	0.98	19000	F	2003
To: SR 419 Electric Rd				
11 Apperson Dr	1.04	13000	F	2003
To: WCL Roanoke				
ALT 11 ALT 460 From: W Main St	0.40	18000	F	2003
11 ALT 460 4th Street				
To: Elm St				
ALT 11 ALT 460 From: 4th Street	0.37	20000	F	2003
11 ALT 460 4th Street				
To: Union St				
ALT 11 ALT 460 From: 4th Street	0.29	18000	F	2003
11 ALT 460 4th Street				
To: Colorado St				
ALT 11 ALT 460 From: 4th Street	0.28	9500	F	2003
11 ALT 460 4th Street				
To: Roanoke Blvd				
ALT 11 ALT 460 From: Texas St	0.31	10000	F	2003
11 ALT 460 Texas St				
To: Idaho St				
ALT 11 ALT 460 From: Texas St	0.61	6400	F	2003
11 ALT 460 Texas St				
To: Lynchburg Tnpk				
ALT 11 ALT 460 From: Texas St	0.24	2200	F	2003
11 ALT 460 Texas St				
To: Electric Rd				
ALT 11 ALT 460 From: Texas St	0.53	20000	F	2003
11 ALT 460 Electric Rd				
To: E Main St				
ALT 11 ALT 460 From: SR 419 Electric Rd	0.44	16000	F	2003
11 ALT 460 E Main St				
To: WCL Roanoke				
North 81 From: SCL Salem	0.20	27000	F	2003
81				
Combined Traffic:		53000	F	
To: SR 112 Wildwood Rd				
North 81 From: SR 112 Wildwood Rd	0.22	32000	F	2003
81				
Combined Traffic:		65000	F	
To: NCL Salem				
South 81 From: SCL Salem	0.28	26000	F	2003
81				
Combined Traffic:		53000	F	
To: SR 112 Wildwood Rd				

Route	Length	AADT	QA	Year
City of Salem				
South 81 From: SR 112 Wildwood Rd	0.14	33000	F	2003
81				
Combined Traffic:		65000	F	
To: NCL Salem				
From: US 11, US 460 Main St				
112 Wildwood Rd	0.44	18000	F	2003
To: NCL Salem				
From: College Ave				
311 Thompson Memorial Dr	0.17	7600	F	2003
To: Main St				
311 Thompson Memorial Dr	0.94	12000	F	2003
To: Hawthorne Rd				
311 Thompson Memorial Dr	0.55	12000	F	2003
To: NCL Salem				
From: SCL Salem				
419 Electric Rd	0.69	30000	F	2003
To: US 11 Apperson Dr				
419 Electric Rd	0.58	25000	F	2003
To: Roanoke Boulevard				
419 Electric Rd	0.89	18000	F	2003
To: ALT US 460 Texas St				
ALT 419 ALT 460 From: Electric Rd	0.53	20000	F	2003
419 ALT 460 Electric Rd				
To: US 460 East Main St				
419 Electric Rd	0.88	16000	F	2003
To: NCL Salem				
From: WCL Salem				
460 11 West Main St	1.12	24000	F	2003
To: SR 112				
460 11 West Main St	1.31	24000	F	2003
To: ALT US 460, 4th St				
460 11 West Main St	0.60	15000	F	2003
To: Academy St				
460 11 West Main St	0.35	14000	F	2003
To: US 11 College Ave				
460 Main St	0.11	12000	F	2003
To: SR 311 Thompson Memorial Dr				
460 E Main St	0.29	12000	F	2003
To: Lynchburg Turnpike				
460 E Main St	0.93	13000	F	2003
To: Kessler Mill Rd				
460 E Main St	0.24	15000	F	2003
To: SR 419 Electric Rd				
460 E Main St	0.44	16000	F	2003
To: WCL Roanoke				
ALT 460 From: W Main St	0.40	18000	F	2003
460 ALT 460 4th Street				
To: Elm St				
ALT 460 From: 4th Street	0.37	20000	F	2003
460 ALT 460 4th Street				
To: Union St				
ALT 460 From: 4th Street	0.29	18000	F	2003
460 ALT 460 4th Street				
To: Colorado St				
ALT 460 From: 4th Street	0.28	9500	F	2003
460 ALT 460 4th Street				
To: Roanoke Blvd				

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City of Salem				
From: Roanoke Blvd ALT 460 Texas St	0.31	10000	F	2003
To: Idaho St				
From: Idaho St ALT 460 Texas St	0.61	6400	F	2003
To: Lynchburg Tnpk				
From: Lynchburg Tnpk ALT 460 Texas St	0.24	2200	F	2003
To: Electric Rd				
From: Electric Rd ALT 460 Electric Rd	0.53	20000	F	2003
To: E Main St				
From: Burwell St 1 Market St	0.10	3300	F	2003
To: Main St				
From: ALT US 460 Texas St 2 Idaho St	0.18	3300	N	2003
To: Illinois Ave				
From: Illinois Ave 2 Idaho St	0.27	3300	F	2003
To: Lynchburg Tnpk				
From: Front Ave 3 King Street	0.07	150	F	2003
To: Colorado St				
From: W Riverside Dr 4 Mill La	0.37	7600	F	2003
To: W Main St				
From: WCL Salem 8002 Riverside Dr	0.40	5000	F	2003
To: Mill Ln				
From: Mill Ln 8002 Riverside Dr	0.93	6300	F	2003
To: Twelve O'Clock Knob Rd				
From: Twelve O'Clock Knob Rd 8002 Riverside Dr/Piedmont Ave	0.25	5700	F	2003
To: Mulberry St				
From: Mulberry St 8002 Mulberry St/Front Ave/Riverside D	0.87	2400	F	2003
To: Piedmont Ave				
From: US 11 8004 Colorado St	0.29	2500	F	2003
To: Roanoke Blvd				
From: 4Th St 8004 Colorado St	0.52	14000	F	2003
To: Sinclair Bridge				
From: 129-8006 South Market Street 8004 Burwell Street	0.11	1400	F	2003
To: Broad Street				
From: Burwell St 8006 Roanoke Blvd	0.48	3200	F	2003
To: 4Th St				
From: Main St 8008 Lynchburg Tnpk	0.17	3800	F	2003
To: Idaho St				
From: Idaho St 8008 Lynchburg Salem Tnpk	0.67	1500	F	2003
To: Texas St				
From: Texas St 8008 Lynchburg Tnpk	0.25	4800	F	2003
To: Electric Rd				
From: Electric Rd 8008 Lynchburg Salem Tnpk	0.44	6100	F	2003
To: ECL Salem				

Route	Length	AADT	QA	Year
City of Salem				
From: Texas St 8010 Roanoke Blvd	0.41	7900	F	2003
To: Pearl St				
From: Pearl St 8010 Roanoke Blvd	0.30	8900	F	2003
To: Electric Rd				
From: Electric Rd 8010 Roanoke Blvd	1.30	12000	F	2003
To: ECL Salem				
From: Main St 8018 Dalewood Ave	0.55	2200	F	2003
To: Greenridge Rd				
From: Greenridge Rd 8018 Green Ridge Rd	0.19	5000	F	2003
To: NCL Salem				
From: SCL Salem 8037 Twelve O'Clock Knob Rd	0.98	1200	F	2003
To: Riverside Dr				
From: SCL Salem 8047 Diuguids La	0.09	4500	F	2003
To: US 11; 460				
From: Piedmont St 8051 Eddy Ave	0.18	5900	F	2003
To: Union St				
From: Eddy St 8051 Union St	0.69	6500	F	2003
To: W Main St				
From: W Main St 8051 Academy St	0.64	1300	F	2003
To: Carrollton Ave				
From: Carrollton Ave 8051 Academy St	0.51	1600	F	2003
To: I-81				
From: Main St 8059 Goodwin Ave	0.72	1800	F	2003
To: NCL Salem				
From: Main St 8065 Kessler Mill Rd	1.65	1300	F	2003
To: NCL Salem				
From: College Ave 3rd Street	260	F	2003	
To: Roanoke Blvd				
From: Tennessee St 6th Street	650	G	2003	
To: College Ave				
From: Delaware St 8th Street	3900	F	2003	
To: Florida St				
From: Valedale Rd Bonavista Rd	50	F	2003	
To: Ft Lewis Blvd				
From: Shanks St Burwell St	1700	F	2003	
To: Chestnut St				
From: Burwell St Chapman St	460	F	2003	
To: 2nd St				
From: Gardner Dr Fletcher St	220	F	2003	
To: Howard Dr				

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Route	Length	AADT	QA	Year
City of Salem				
From: Logan St				
Goodwin Ave		1100	F	2003
To: NCL Salem				
From: Randolph Ave				
Jackson Dr		530	F	2003
To: Kessling Ave				
From: Keesling Ave				
Macon St		160	F	2003
To: Randolph Ave				
From: Carolina Ave				
Pearl St.		220	F	2003
To: Missouri Ave				
From: Valleydale Rd				
Texas Hollow Rd		2600	F	2003
To: W Main St				
From: Richfield Ave				
Virginia Ave		260	F	2003
To: Fairview Ave				