

2003

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

Special Locality Report

139

Town of Wytheville

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
 Town of Wytheville

Route	Length	AADT	QA	Year
Town of Wytheville				
From: WCL Wytheville				
11 W Lee Hwy	0.29	4500	F	2003
To: 24th St				
11 12th Street	2.03	6500	F	2003
From: US 21 Main St				
To: 12th St				
11 Main St	0.31	7000	F	2003
To: 4th St				
11 Main St	0.33	8800	F	2003
To: 5th St				
11 Main St	0.20	9000	F	2003
To: 11th St				
11 E Main St	0.50	13000	F	2003
To: Liberty St				
11	0.78	8900	F	2003
To: 139-3 Lithia Rd				
11	0.08	8900	N	2003
To: I-81				
11 81	0.96	See I-81		
Combined Traffic:		52000	F	
To: NCL Wytheville				
From: SCL Wytheville				
21 Grayson Street	0.93	4700	F	2003
To: Main Street				
From: Grayson St				
21 Main Street	0.49	6900	F	2003
To: US 11; 12th St				
From: US 11 12TH ST				
21 11 Main St	0.31	7000	F	2003
To: MAIN ST				
From: Main Street				
21 4th Street	0.06	7900	F	2003
To: Monroe Street				
21 4th Street	0.47	14000	F	2003
To: W Ridge Rd				
21 4th Street	0.40	11000	F	2003
To: Tazewell St				
21 4th Street	0.12	13000	F	2003
To: I-81; US 52				
From: NCL Wytheville				
52 81	0.93	See I-81		
Combined Traffic:		52000	F	
To: US 11				
52 81	1.29	See I-81		
Combined Traffic:		49000	F	
To: I-77 Wytheville				
52 81	1.99	See I-81		
Combined Traffic:		29000	F	
To: HOLSTON I-81 SB RAMP				
From: I-81				
52	1.92	2500	F	2003
To: WCL Wytheville				
From: NCL Wytheville				
North South 77 81	0.93	25000	B	2003
Combined Traffic:		52000	F	
To: US 11				

Route	Length	AADT	QA	Year
Town of Wytheville				
From: US 11				
North South 77 81	1.29	25000	F	2003
Combined Traffic:		49000	F	
To: I-81 Wytheville				
From: I-81 S				
North 77	0.59	16000	F	2003
Combined Traffic:		29000	F	
To: Peppers Ferry Rd				
North 77	0.23	14000	F	2003
Combined Traffic:		27000	F	
To: NCL Wytheville				
From: NCL Wytheville				
South North 77 81	0.96	26000	F	2003
Combined Traffic:		52000	F	
To: US 11				
South North 77 81	0.82	24000	F	2003
Combined Traffic:		49000	F	
To: I-81 Wytheville				
From: I-81 N				
South 77	1.15	14000	F	2003
Combined Traffic:		29000	F	
To: NCL Wytheville				
From: SCL Wytheville				
North 81	2.03	13000	F	2003
Combined Traffic:		25000	F	
To: US 21; US 52				
North 81	2.27	14000	F	2003
Combined Traffic:		29000	F	
To: I-77 Wytheville				
North 81	0.82	24000	F	2003
Combined Traffic:		49000	F	
To: US 11				
North 81	0.96	26000	F	2003
Combined Traffic:		52000	F	
To: NCL Wytheville				
From: SCL Wytheville				
South 81	2.71	12000	F	2003
Combined Traffic:		25000	F	
To: US 21; US 52				
South 81	1.99	15000	F	2003
Combined Traffic:		29000	F	
To: I-77 Wytheville				
South 81	1.29	25000	F	2003
Combined Traffic:		49000	F	
To: US 11				
South 81	0.93	25000	B	2003
Combined Traffic:		52000	F	
To: NCL Wytheville				
From: US 52				
1 Fairview Rd	1.19	1800	F	2003
To: NCL Wytheville				

Virginia Department of Transportation
 Mobility Management Division
 2003
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Town of Wytheville

Route	Length	AADT	QA	Year
Town of Wytheville				
From: US 52 4Th St ② Holston Rd To: Cove Rd	1.24	2100	F	2003
From: US 11 Main St ③ Lithia Rd To: Nye Rd	0.48	1600	F	2003
From: .25 Mi. S Peppers Ferry Rd ④ Nye Rd To: Peppers Ferry Rd	1.25	1300	F	2003
From: WCL Wytheville ⑤250 Old Stage Rd To: US 21 Grayson St	1.63	1300	F	2003
From: Petunia Rd ⑤252 W Ridge Rd To: Old WCL Wytheville	0.14	790	F	2003
From: Old WCL Wytheville ⑤252 W Ridge St To: 18Th St	1.55	1100	F	2003
From: 18Th St ⑤252 W Ridge Rd To: US 21 4Th St	0.49	3800	F	2003
From: US 11 Main St ⑤253 Withers Rd To: 11th St	0.25	2800	F	2003
From: Withers St ⑤253 11th Street To: US 11 Main St	0.31	2300	F	2003
From: US 11 Main St ⑤253 11th Street To: Monroe St	0.06	7700	F	2003
From: Monroe St ⑤253 11th-North Street To: Fisher Rd	0.13	2200	F	2003
From: Fisher Rd ⑤253 Fisher Rd To: Pine St	0.14	1500	F	2003
From: Peppers Ferry Rd ⑤255 Cove Rd To: Holston Rd	0.52	2100	F	2003
From: Holston Rd ⑤255 Cove Rd To: Wytheview Dr	0.32	1100	F	2003
From: Wytheview Dr ⑤255 Cove Rd To: NCL Wytheville	0.29	730	F	2003
From: 12Th St ⑤256 Spring St To: 4Th St	0.30	2000	F	2003
From: 4Th St ⑤256 Spring St To: 11Th St	0.54	2300	F	2003
From: Main St ⑤257 Tazewell St To: Monroe St	0.06	1400	F	2003
From: 12Th St US 11 ⑤258 Monroe St To: 4Th St US 21	0.31	3300	F	2003
From: US 21 4Th St ⑤258 Monroe St To: 1St Street	0.19	5800	F	2003
From: N 1St Street ⑤258 Monroe St To: N 5Th St	0.15	5200	F	2003

Route	Length	AADT	QA	Year
Town of Wytheville				
From: 5Th St ⑤258 Monroe St To: 11Th St	0.19	5100	F	2003
From: 11Th St ⑤258 Peppers Ferry Rd To: Cove Rd	0.46	6200	F	2003
From: Cove Rd ⑤258 Peppers Ferry Rd To: Ramp to I-77	0.67	5000	F	2003
From: Ramp to I-77 ⑤258 Peppers Ferry Rd To: ECL Wytheville	0.19	1800	F	2003
From: ECL Wytheville ⑤258 Peppers Ferry Rd To: JB-139 ECL Wytheville	0.47	7200	F	2003
From: JB-139 ECL Wytheville ⑤258 Peppers Ferry Rd To: 98-610 JB-139 ECL Wytheville	0.47	7200	F	2003
From: Main St US 11 ⑤260 12th Street To: Union St	0.29	2200	F	2003
From: Union St ⑤260 Union St To: 12Th St	0.30	2100	F	2003
From: 4Th St ⑤260 Withers St To: 11Th St	0.56	2900	F	2003
From: Marshall St ⑤261 4th Street To: Withers St	0.31	2400	F	2003
From: Withers St ⑤261 4th Street To: US 11 Main St	0.30	2500	F	2003
From: US 11 Main St ⑤262 Marshall St To: 4Th St	0.91	1700	F	2003
From: 4Th St ⑤262 Marshall St To: Main St US 11	0.91	1700	F	2003
From: US 11 Lee Hwy ⑤264 Pine St To: US 21 4Th St	0.38	3100	F	2003
From: US 21 4Th St ⑤264 Pine St To: Fisher Rd	0.44	430	F	2003
From: Fisher Rd 10th Street To: Franklin Street		NA		
From: Franklin Street 10th Street To: Washington Street		NA		
From: Washington Street 16th Street To: Franklin St		110	F	2003
From: Franklin St 3rd Street To: Ridge Street		NA		
From: Ridge Street 3rd Street To: Reservoir Street		NA		
From: Reservoir Street Church St To: Washington St		730	F	2003
From: Washington St Church St To: Withers St		730	F	2003
From: Withers St Mountain View Dr To: 11Th St		660	F	2003
From: 11Th St Mountain View Dr To: 13Th St		660	F	2003
From: 13Th St Spiller St To: 5Th St		160	F	2003
From: 5Th St Spiller St To: 3Rd St		160	F	2003