

2003

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

Special Locality Report

109

City of Emporia

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

- North
 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
 Bus - Business Route
-  Bypas - Bypass Route
- Truck - Truck Route
- ALT
 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 Emporia

Route	Length	AADT	QA	Year
City of Emporia				
From: WCL Emporia				
58 West Atlantic St	0.41	14000	G	2003
To: Purdy Rd				
From: Purdy Rd				
58 West Atlantic St	0.21	22000	G	2003
To: I-95				
From: I-95				
58	0.84	16000	G	2003
To: US 301 Main St				
From: US 301 Main St				
58	0.64	14000	G	2003
To: Reese St				
From: Reese St				
58	0.49	16000	G	2003
To: Davis St				
From: Davis St				
58	0.65	16000	G	2003
To: East Atlantic St				
From: East Atlantic St				
58	0.40	17000	G	2003
To: ECL Emporia				
From: ECL Emporia				
Bus 58				
From: US 58 West Intersection				
58	0.21	13000	G	2003
To: West Atlantic St				
From: West Atlantic St				
Bus 58				
From: US 58 Connector				
58 West Atlantic Street	0.44	13000	G	2003
To: North Main Street				
From: North Main Street				
Bus 58				
From: East Atlantic Street				
58	0.25	5400	G	2003
To: Reese St				
From: Reese St				
Bus 58				
From: East Atlantic Street				
58	1.20	2100	G	2003
To: US 58 East Intersection				
From: US 58 East Intersection				
North 95				
From: SCL Emporia				
95	1.05	20000	G	2003
Combined Traffic:		39000	G	
To: US 58				
From: US 58				
North 95				
From: US 58				
95	0.62	19000	G	2003
Combined Traffic:		31000	G	
To: NCL Emporia				
From: NCL Emporia				
South 95				
From: SCL Emporia				
95	1.24	19000	G	2003
Combined Traffic:		39000	G	
To: US 58				
From: US 58				
South 95				
From: US 58				
95	0.35	12000	G	2003
Combined Traffic:		31000	G	
To: NCL Emporia				
From: NCL Emporia				
From: SCL Emporia				
301 South Main St	0.45	6400	G	2003
To: Low Ground Rd				
From: Low Ground Rd				
301 South Main St	0.24	9700	G	2003
To: Jefferson St				
From: Jefferson St				
301 South Main St	0.36	11000	G	2003
To: Brunswick Ave				
From: Brunswick Ave				
301 South Main St	0.49	17000	G	2003
To: Valley St				
From: Valley St				
301 South Main St	0.20	15000	G	2003
To: Atlantic Ave				
From: Atlantic Ave				
301 North Main St	0.74	9200	G	2003
To: US 58				

Route	Length	AADT	QA	Year
City of Emporia				
From: US 58				
301 North Main St	0.34	8800	G	2003
To: Halifax St				
From: Halifax St				
301 North Main St	0.16	9800	G	2003
To: NCL Emporia				
From: NCL Emporia				
1 Brink Rd	0.16	NA		
To: US 301				
From: US 301				
2 Purdy Rd	0.49	2500	G	2003
To: West Atlantic St				
From: West Atlantic St				
2 Purdy Rd	0.14	NA		
To: Satterfield Dr				
From: Satterfield Dr				
2 Purdy Rd	0.14	NA		
To: JB-40-109				
From: JB-40-109				
5 West End Dr	0.42	NA		
To: US 58				
From: US 58				
5 West End Dr	0.42	NA		
To: 109-2 Purdy Rd				
From: 109-2 Purdy Rd				
3800 Greenville Ave	0.17	430	G	2003
To: Tillar St				
From: Tillar St				
3801 Low Ground Rd	0.43	3100	G	2003
To: SCL Emporia				
From: SCL Emporia				
3801 Laurel St	0.43	800	G	2003
To: South Main St				
From: South Main St				
3801 Laurel St	0.43	800	G	2003
To: Temple Ave				
From: Temple Ave				
3802 Brunswick Ave	0.20	4300	G	2003
To: WCL Emporia				
From: WCL Emporia				
3802 Brunswick Ave	0.66	4700	G	2003
To: Brunswick Ave Ext.				
From: Brunswick Ave Ext.				
3802 Brunswick Ave	0.66	4700	G	2003
To: South Main St				
From: South Main St				
3802 Hicksford Ave	0.46	2300	G	2003
To: Lee St				
From: Lee St				
3802 Lee St	0.37	1900	G	2003
To: Hicksford Ave				
From: Hicksford Ave				
3802 Lee St	0.37	1900	G	2003
To: Southampton St				
From: Southampton St				
3804 Valley St	0.14	1100	G	2003
To: North Main St				
From: North Main St				
3804 Valley St	0.14	1100	G	2003
To: Halifax St				
From: Halifax St				
3804 Southampton St	0.29	1100	G	2003
To: Lee St				
From: Lee St				
3804 Southampton St	0.18	2100	G	2003
To: East Atlantic St				
From: East Atlantic St				
3805 Davis St	1.32	2100	G	2003
To: East Atlantic St				
From: East Atlantic St				
3805 Davis St	1.32	2100	G	2003
To: ECL Emporia				
From: ECL Emporia				
3807 Halifax St	0.15	3100	G	2003
To: Southampton St				
From: Southampton St				
3807 Halifax St	0.34	2600	G	2003
To: East Atlantic St				
From: East Atlantic St				
3807 Halifax St	0.34	2600	G	2003
To: Ruffin St				
From: Ruffin St				
3807 Halifax St	0.30	1900	G	2003
To: US 58				
From: US 58				
3807 Halifax St	0.53	1400	G	2003
To: North Main St				
From: North Main St				
3808 Reese St	0.12	NA		
To: 109-3804				
From: 109-3804				
3808 Reese St	0.12	NA		
To: US 58 Bypass				
From: US 58 Bypass				

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 City of Emporia

Route	Length	AADT	QA	Year
City of Emporia				
From: Southampton St				
3808 Reese St	0.83	2000	G	2003
To: US 58 Bypass				
3808 Reese St	0.84	960	G	2003
To: Sunnyside Rd				
From: West Atlantic St				
3809 Belfield Dr	0.17	3100	G	2003
To: Weaver Ave				
From: Belfield Dr				
3810 Weaver Ave	0.21	3300	G	2003
To: North Main St				
From: Dead End near Florida Ave				
3815 W Atlantic Ave	0.24	1300	G	2003
To: Bus US 58				
From: North Main St				
Baker St		650	G	2003
To: Halifax St				
From: Clay St				
Briggs St		1400	G	2003
To: Tillar St				
From: Low Ground Rd				
Clay St		2800	G	2003
To: South Main St				
From: South Main St				
Jefferson St		1500	G	2003
To: West Ave				
From: Halifax St				
Ruffin St		1200	G	2003
To: North Main St				
From: Laurel St				
Temple Ave		650	G	2003
To: Jefferson St				
From: Briggs St				
Tillar St		1900	G	2003
To: Hicksford Ave				
From: Jefferson St				
West Ave		370	G	2003
To: Brunswick Ave				
From: North Main St				
West End Blvd		840	G	2003
To: Gay St				