

2011

**Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates**

where available

Special Locality Report

120

City of Martinsville

Information in this report is included in Report

44

(Henry County)

Prepared By

**Virginia Department of Transportation
Traffic Engineering Division**

In Cooperation With

**U.S. Department of Transportation
Federal Highway Administration**

Virginia Department of Transportation
Traffic Engineering 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 of the VDOT Traffic Engineering Division 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 Traffic Engineering Division 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 K Factor 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 Design Hour Factor (K 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

 Frontage Road (F precedes frontage route number)

 Secondary Route

Special Routes

 Bus - Business Route
 Bypas - Bypass Route
 Truck - Truck Route
 ALT - Alternate Route
 Wye - Wye 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
Traffic Engineering Division
2011
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Martinsville

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck			QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail							
57 Fayette St	City of Martinsville	1.34	3100	G	99%	1%	0%	0%	0%	F	0.089	F	0.552	3300	G	
57 Fayette St	City of Martinsville	0.34	3700	G	99%	1%	0%	0%	0%	C	0.088	F	0.531	4000	G	
57 Bus 220 Memorial Blvd	City of Martinsville	0.85	12000	G	97%	1%	1%	0%	2%	0%	C	0.083	F	0.534	13000	G
57 Bus 220 Memorial Blvd	City of Martinsville	0.25	15000	G	97%	1%	1%	0%	2%	0%	F	0.087	F	0.563	17000	G
57 Bus 58 Starling Ave	City of Martinsville	0.85	9100	G	98%	1%	0%	0%	1%	0%	C	0.089	F	0.574	9700	G
57 Bus 58 Starling Ave	City of Martinsville	0.15	8100	G	98%	1%	0%	0%	1%	0%	F	0.095	F	0.554	8700	G
57 Bus 58 Church St	City of Martinsville	0.10	12000	G	98%	1%	0%	0%	0%	C	0.088	F	0.592	13000	G	
57 Bus 58 Church St	City of Martinsville	0.28	9900	G	98%	1%	0%	0%	0%	F	0.088	F	0.605	11000	G	
57 Bus 58 E Church Rd	City of Martinsville	0.26	9900	G	98%	1%	0%	0%	0%	F	0.091	F	0.621	11000	G	
57 Bus 58 E Church Rd	City of Martinsville	0.13	13000	G	98%	1%	1%	0%	1%	0%	F	0.087	F	0.588	14000	G
57 Bus 58 E Church Rd	City of Martinsville	0.77	16000	G	98%	1%	1%	0%	1%	0%	C	0.085	F	0.62	17000	G
58 Bus 220 Memorial Blvd	City of Martinsville	0.71	20000	G	97%	1%	1%	1%	1%	C	0.079	F	0.513	22000	G	
58 Bus 57 Starling Ave	City of Martinsville	0.85	9100	G	98%	1%	0%	0%	1%	0%	C	0.089	F	0.574	9700	G
58 Bus 57 Starling Ave	City of Martinsville	0.15	8100	G	98%	1%	0%	0%	1%	0%	F	0.095	F	0.554	8700	G
58 Bus 57 Church St	City of Martinsville	0.10	12000	G	98%	1%	0%	0%	0%	C	0.088	F	0.592	13000	G	
58 Bus 57 Church St	City of Martinsville	0.28	9900	G	98%	1%	0%	0%	0%	F	0.088	F	0.605	11000	G	

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Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck			QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail							
Bus 58 [57] E Church Rd	City of Martinsville	0.26	9900	G	98%	1%	0%	0%	0%	F	0.091	F	0.621	11000	G	
Bus 58 [57] E Church Rd	City of Martinsville	0.13	13000	G	98%	1%	1%	0%	1%	0%	F	0.087	F	0.588	14000	G
Bus 58 [57] E Church Rd	City of Martinsville	0.77	16000	G	98%	1%	1%	0%	1%	0%	C	0.085	F	0.62	17000	G
[174] Liberty St	City of Martinsville	0.49	13000	G	97%	1%	0%	0%	2%	0%	F	0.095	F	0.548	14000	G
[174] Liberty St	City of Martinsville	0.20	13000	G	97%	1%	0%	0%	2%	0%	F	0.096	F	0.545	14000	G
[174] Liberty St	City of Martinsville	0.60	8900	G	97%	1%	0%	0%	2%	0%	C	0.086	F	0.623	9900	G
Bus 220 Bus 58 Memorial Blvd	City of Martinsville	0.71	20000	G	97%	1%	1%	1%	1%	0%	C	0.079	F	0.513	22000	G
Bus 220 [57] Memorial Blvd	City of Martinsville	0.25	15000	G	97%	1%	1%	0%	2%	0%	F	0.087	F	0.563	17000	G
Bus 220 [57] Memorial Blvd	City of Martinsville	0.85	12000	G	97%	1%	1%	0%	2%	0%	C	0.083	F	0.534	13000	G
Bus 220 Memorial Blvd	City of Martinsville	0.65	14000	G	98%	0%	0%	0%	1%	0%	C	0.082	F	0.506	15000	G
[457] Church St	City of Martinsville	0.59	5300	G	98%	1%	0%	0%	1%	0%	F	0.086	F	0.507	5900	G
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			9700	G	99%	0%	0%	0%	0%	0%	F	0.084	F	0.528	10000	G
[457] Market St	City of Martinsville	0.20	10000	G	98%	1%	0%	0%	1%	0%	F	0.088	F	0.526	11000	G
[457] Commonwealth Blvd	City of Martinsville	0.56	14000	G	98%	1%	0%	0%	1%	0%	F	0.09	F	0.515	16000	G
[457] Commonwealth Blvd	City of Martinsville	0.36	19000	G	98%	1%	0%	0%	1%	0%	C	0.089	F	0.521	20000	G
[457] Commonwealth Blvd	City of Martinsville	0.48	5700	G	98%	1%	0%	0%	1%	0%	F	0.089	F	0.503	6200	G

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City of Martinsville

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axe	3+Axe	1Trail	2Trail						
457 Chatham Rd	City of Martinsville	From: Commonwealth Blvd To: ECL Martinsville	0.99	4800 G	98%	0%	0%	0%	0%	0%	C	0.089	F	0.587	5300	G
457 Fayette St	City of Martinsville	From: US 220 Memorial Blvd To: SR 457 Market St	0.61	4300 G	100%	0%	0%	0%	0%	0%	C	0.084	F	0.504	4100	G
457 Fairy St	City of Martinsville	From: SR 457 Commonwealth Blvd To: Bus US 58 Church St	0.29	7700 G	98%	1%	0%	0%	0%	1%	C	0.092	F	0.573	8500	G

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail							
City of Martinsville																
(4501) Mulberry Rd	1.41	2900	G	99%	0%	0%	0%	0%	0%	F	0.094	F	0.667	3200	G	2011
(4501) Mulberry Rd	0.21	5200	G	99%	0%	0%	0%	0%	0%	C	0.09	F	0.597	5700	G	2011
(4501) Mulberry Rd	0.18	8200	G	99%	0%	0%	0%	0%	0%	F	0.096	F	0.547	8900	G	2011
(4501) Market St	0.87	9300	G	99%	0%	0%	0%	0%	0%	C	0.091	F	0.501	8800	G	2011
(4502) W Church St	0.36	2500	G	99%	1%	0%	0%	0%	0%	F	0.104	F	0.727	2800	G	2011
(4502) E Church St	0.12	3800	G	99%	1%	0%	0%	0%	0%	C	0.102	F		4100	G	2011
(4502) E Church St	0.33	6000	G	99%	0%	0%	0%	1%	0%	F	0.1	F	0.674	6600	G	2011
(4504) Commonwealth Blvd	1.00	18000	G	99%	0%	0%	0%	1%	0%	C	0.09	F	0.545	18000	G	2011
(4506) Stultz Rd	0.73	3800	G	99%	0%	0%	0%	1%	0%	F	0.093	F	0.567	4200	G	2011
(4506) Clearview Dr	0.08	9900	G	99%	0%	0%	0%	1%	0%	F	0.089	F	0.522	11000	G	2011
(4506) Clearview Dr	0.14	6800	G	99%	0%	0%	0%	1%	0%	F	0.088	F	0.575	7500	G	2011
(4506) Clearview Dr	0.86	2700	G	97%	1%	1%	1%	0%	0%	C	0.1	F	0.609	3000	G	2011
(4507) Rives Rd	1.34	5200	G	99%	0%	0%	0%	0%	0%	C	0.096	F	0.519	5700	G	2011
(4507) Rives Rd	0.34	3800	G	99%	0%	0%	0%	0%	0%	F	0.096	F	0.549	4200	G	2011
(4509) Rivermont Heights	0.39	1300	G	99%	0%	0%	0%	0%	0%	F	0.095	F	0.536	1400	G	2011
(4511) Forest St	0.56	1800	G	99%	0%	0%	0%	0%	0%	F	0.088	F	0.575	1900	G	2011
(4515) Askin St	0.97	300	G	99%	0%	0%	0%	0%	0%	F	0.125	F	0.59	320	G	2011
(4517) Spruce St	0.23	5600	G	99%	0%	0%	0%	0%	0%	F	0.091	F	0.55	6000	G	2011
(4517) Spruce St	0.39	5800	G	99%	0%	0%	0%	0%	0%	C	0.097	F	0.671	6200	G	2011
(4517) Spruce St	0.44	7100	G	99%	0%	0%	0%	0%	0%	F	0.092	F	0.651	7600	G	2011
(4519) Brookdale St	0.53	12000	G	98%	1%	1%	0%	0%	0%	C	0.085	F	0.528	13000	G	2011
(4519) Brookdale St	0.41	7300	G	98%	1%	1%	0%	0%	0%	F	0.091	F	0.605	7800	G	2011

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Annual Average Daily Traffic Volume Estimates By Section of Route
City of Martinsville

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail							
City of Martinsville																
(4521) Parkview Ave	0.32	900	G	99%	0%	0%	0%	0%	0%	F	0.098	F	0.508	960	G	2011
						From: Mulberry Rd										
(4521) Parkview Ave	0.17	2400	G	99%	0%	0%	0%	0%	0%	C	0.094	F	0.504	2500	G	2011
						To: Spruce St										
						From: Brookdale St										
(4523) Cleveland Ave	0.36	3200	G	99%	0%	0%	0%	0%	0%	F	0.103	F	0.546	3500	G	2011
						To: US 58 Bus Starling Ave										
						From: Church St										
(4525) Broad St	0.45	1400	G	95%	1%	1%	1%	2%	0%	C	0.111	F	0.645	1400	G	2011
						To: Memorial Blvd										
(4525) Broad St	0.18	990	G	95%	1%	1%	1%	2%	0%	F	0.116	F	0.695	1100	G	2011
						From: Market St										
						To: Church St										
(4527) Bridge St	0.43	5800	G	99%	0%	0%	0%	0%	0%	C	0.086	F	0.603	6300	G	2011
						From: Memorial Blvd										
(4527) Bridge St	0.17	2300	G	99%	0%	0%	0%	0%	0%	F	0.100	F	0.564	2400	G	2011
						To: Church St										
(4527) Bridge St	0.18	1400	G	99%	0%	0%	0%	0%	0%	F	0.101	F		1500	G	2011
						From: 120-4502 Church St										
						To: 120-4553 Main St										
(4529) Ellsworth St	0.18	2200	G	99%	0%	0%	0%	0%	0%	F	0.104	F	0.549	2400	G	2011
						From: Market St										
(4529) Lester St	0.35	4400	G	99%	0%	0%	0%	0%	0%	C	0.101	F	0.598	4200	G	2011
						From: Church St										
						To: Commonwealth Blvd										
(4531) Walnut St	0.05	1400	G	99%	0%	0%	0%	0%	0%	F	0.117	F		1500	G	2011
						From: Church St										
(4531) Franklin St	0.09	2100	G	99%	0%	0%	0%	0%	0%	F	0.103	F	0.763	2300	G	2011
						From: Main St										
(4531) Franklin St	0.61	1100	G	99%	0%	0%	0%	0%	0%	F	0.123	F	0.546	1200	G	2011
						From: Jones St										
						To: Liberty St										
(4533) Liberty St	0.07	3400	G	96%	2%	2%	0%	0%	0%	C	0.103	F	0.521	3800	G	2011
						From: SR 457 Commonwealth Blvd										
(4533) Liberty St	0.10	2400	G	96%	2%	2%	0%	0%	0%	F	0.104	F	0.599	2600	G	2011
						From: Moss St										
						To: Franklin St										
(4535) Northside Dr	0.80	6300	G	99%	0%	0%	0%	0%	0%	C	0.098	F	0.558	6900	G	2011
						From: Commonwealth Blvd										
						To: Clearview Dr										
(4539) Hooker St	0.39	6500	G	99%	0%	0%	0%	0%	0%	F	0.085	F	0.555	7100	G	2011
						From: Chatham Rd										
						To: Commonwealth Blvd										
(4541) Barrows Mill Rd	0.67	2500	G	99%	0%	0%	0%	0%	0%	F	0.095	F	0.534	2700	G	2011
						From: Clearview Dr										
						To: NCL Martinsville										
(4542) Hairston St	0.53	1200	G	98%	1%	0%	1%	0%	0%	C	0.111	F	0.574	1400	G	2011
						From: Starling Ave										
						To: Rives Rd										
(4543) Moss St	0.05	1800	G	99%	1%	0%	0%	0%	0%	F	0.1	F	0.884	2000	G	2011
						From: Church St										
						To: Main St										
(4543) Main St	0.13	1200	G	99%	1%	0%	0%	0%	0%	F	0.112	F		1300	G	2011
						From: Moss St										
						To: Jones St										

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail							
<u>City of Martinsville</u>																
(4543) Main St	0.04	3200	G	99%	1%	0%	0%	0%	0%	F	0.098	N		3400	G	2011
(4543) Main St	0.25	2700	G	99%	1%	0%	0%	0%	0%	C	0.098	F		3000	G	2011
(4543) Clay St	0.04	3000	G	99%	1%	0%	0%	0%	0%	F	0.101	F		3300	G	2011
3rd St		1200	G								0.092	F	0.571	1300	G	2011
Glade St		330	G								0.114	F	0.512	350	G	2011
Highland St		570	G								0.111	F	0.529	610	G	2011
Knollwood Place		560	G								0.124	F	0.657	560	G	2011
Oakgrove Ave		480	G								0.105	F	0.529	520	G	2011
Randolph St		480	G								0.142	F	0.639	480	G	2011
River Forest Pl		100	G								0.141	F	0.546	100	G	2011
Root Trail		850	G								0.110	F	0.64	920	G	2011
Spruce St		3300	G								NA			3600	G	2011