

2002

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

where available

Special Locality Report

155

City of Manassas

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

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months 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 30th Highest 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
 2002
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Manassas

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
(28) Nokesville	0.41	29000	G	95%	1%	2%	1%	1%	0%	F	0.080	F	0.501	31000	G	2002
						From: WCL Manassas										
(28) Nokesville Road	0.35	29000	N	95%	1%	2%	1%	1%	0%	N	0.080	N	0.501	31000	N	2002
						From: SR 234										
(28) Nokesville Rd	1.02	29000	N	95%	1%	2%	1%	1%	0%	N	0.080	N	0.501	31000	N	2002
						From: SR 234 Temporary, 155-5										
(28) Cockrell Rd	0.80	21000	G	95%	1%	2%	1%	1%	0%	F	0.084	F	0.527	22000	G	2002
						From: Wellington Rd										
(28) Center Street	0.25	11000	G	95%	1%	2%	1%	1%	0%	F	0.081	F		12000	G	2002
						From: Church St										
Combined Traffic:			23000	G	95%	1%	2%	1%	0%	F	0.082	F		25000	G	
						From: Bus SR 234										
(28) Center Street	0.37	13000	G	95%	1%	2%	1%	1%	0%	F	0.077	F		14000	G	2002
Combined Traffic:			23000	G	95%	1%	2%	1%	0%	F	0.077	F		25000	G	
						From: Zebedee St										
(28) Zebedee Street	0.11	12000	G	95%	1%	2%	1%	1%	0%	F	0.086	F		13000	G	2002
						From: Center St										
Combined Traffic:			0	G							0.086	F		0	G	
						From: Centreville Rd										
(28) Centreville Rd	0.38	19000	G	95%	1%	2%	1%	1%	0%	F	0.075	F	0.554	20000	G	2002
						From: Church St										
Combined Traffic:			29000	G	95%	1%	2%	1%	0%	F	0.075	F	0.554	31000	G	
						From: Prescott Ave										
(28) Centreville Rd	0.86	29000	G	95%	1%	2%	1%	1%	0%	F	0.072	F	0.528	31000	G	2002
						From: Prince William County Line										
						From: SR 28										
(28) Church Street	0.29	13000	G	95%	1%	2%	1%	1%	0%	F	0.085	F		14000	G	2002
Combined Traffic:			23000	G	95%	1%	2%	1%	0%	F	NA			25000	G	
						From: SR 234										
(28) Church Street	0.82	10000	G	95%	1%	2%	1%	1%	0%	F	0.088	F		11000	G	2002
Combined Traffic:			23000	G	95%	1%	2%	1%	0%	F	NA			25000	G	
						From: Center Street										
Bus (234) Dumfries Rd	0.46	18000	G	92%	1%	5%	1%	2%	0%	F	0.08	F	0.639	19000	G	2002
						From: SCL Manassas										
Bus (234) Grant Ave	0.86	22000	G	96%	0%	2%	0%	1%	0%	F	0.078	F	0.673	22000	G	2002
						From: 155-6 Hastings Drive										
Bus (234) Grant Ave	0.44	23000	G	96%	0%	2%	0%	1%	0%	F	0.078	F	0.643	24000	G	2002
						From: Pr William St										
Bus (234) Grant Ave	0.44	13000	G	96%	0%	2%	0%	1%	0%	F	0.079	F	0.58	14000	G	2002
						From: Church St										
Bus (234) Grant Ave	0.32	13000	G	96%	0%	2%	0%	1%	0%	F	0.079	F	0.579	13000	G	2002
						From: Beauregard Ave										
Bus (234) Sudley Rd	1.18	35000	G	96%	0%	2%	0%	1%	0%	C	0.079	F	0.547	37000	G	2002
						From: Sudley Rd										
						From: Grant Ave										
						From: NCL Manassas										
(9463/76)	0.15	110	R								NA			NA		1994
						From: OSBORNE AND										
						From: BENNET HS										
(9528/76)	0.21	NA									NA			NA		
						From: Osborn HS										
						From: Cul-de-Sac										

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
① Ashton Ave	0.72	12000	G	98%	0%	2%	0%	0%	0%	C	0.099	F	0.558	12000	G	2002
				From:	Godwin Dr											
				To:	Cockrell Rd											
② Clover Hill Rd	0.50	1300	G								NA			1300	G	2002
				From:	Godwin Dr											
② Clover Hill Rd	0.78	4300	G	96%	1%	2%	0%	1%	0%	C	0.097	F	0.541	4500	G	2002
				From:	Waterford Dr											
				To:	Wellington Rd											
③ Cockrell Rd	0.27	7300	G	94%	1%	3%	1%	2%	0%	C	0.098	F	0.547	7600	G	2002
				From:	Ashton Ave											
				To:	SR 28 Center Street											
④ Euclid Ave	0.36	6200	G	92%	1%	5%	1%	1%	0%	F	0.094	F	0.557	6500	G	2002
				From:	Quarry Rd											
④ Euclid Ave	0.34	12000	G	92%	1%	5%	1%	1%	0%	C	0.092	F	0.611	13000	G	2002
				From:	Liberia Ave											
				To:	Manassas NCL											
⑤ Godwin Dr	0.88	2800	G	94%	1%	3%	1%	2%	0%	F	0.096	F	0.625	2900	G	2002
				From:	Clover Hill Rd											
⑤ Godwin Dr	0.88	21000	G	92%	1%	3%	2%	2%	0%	C	0.089	F	0.615	21000	G	2002
				From:	SR 234 Temporary, 155-6											
				To:	SR 28											
⑤	0.15	NA		From:	SR 28 Gap Terminus							NA		NA		
				To:	Dead End .15 MN SR 28											
⑥ Hastings Dr	1.50	14000	G	93%	1%	3%	1%	2%	0%	C	0.101	F	0.663	14000	G	2002
				From:	Godwin Dr											
				To:	SR 234 Dumfries Rd											
⑥ Hastings Dr	1.55	7100	G	93%	1%	3%	1%	2%	0%	F	0.092	F	0.532	7400	G	2002
				From:	SR 234 Richmond Rd											
				To:	Liberia Ave											
⑦ Quarry Rd	0.56	4300	G	97%	0%	2%	1%	1%	0%	F	0.099	F	0.619	4500	G	2002
				From:	Zebedee St											
				To:	Euclid Ave											
⑧ Signal Hill Rd	0.13	3800	G	97%	0%	2%	1%	1%	0%	F	0.098	F	0.56	4000	G	2002
				From:	Richmond Ave											
				To:	Liberia Ave											
⑩⑦ Godwin Dr	2.01	16000	G	97%	0%	2%	1%	1%	0%	C	0.09	F	0.544	16000	G	2002
				From:	SR 28											
				To:	SR 234											
④③⑤① Lucasville Rd	0.11	NA		From:	76-692 JB-76-155 SCL MANASSAS 4350 LUCA							NA		NA		
				To:	155-6 Hastings Drive											
④③⑤② Richmond Ave	0.60	12000	G	94%	1%	3%	1%	1%	0%	C	0.089	F	0.54	13000	G	2002
				From:	Grant Ave											
④③⑤③ Richmond Ave	0.94	1400	G	94%	1%	3%	1%	1%	0%	F	0.098	F	0.508	1400	G	2002
				From:	Fairview Ave											
				To:	Liberia Ave											
④③⑤④ Fairview Ave	0.74	15000	G	96%	0%	2%	1%	1%	0%	C	0.089	F	0.565	16000	G	2002
				From:	ECL Manassas, 76-3000 PW Pkwy											
④③⑤⑤ Fairview Ave	0.50	11000	G	96%	0%	2%	1%	1%	0%	F	0.091	F	0.661	11000	G	2002
				From:	155-4352 Richmond Ave											
				To:	SR 28 Center St											
④③⑤⑥ Main St	0.24	3400	G	96%	0%	3%	0%	1%	0%	C	0.095	F	0.645	3500	G	2002
				From:	Center St											
				To:	Portner Ave											

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						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
(4356) Portner Ave	0.43	2400	G	93%	2%	3%	0%	1%	0%	F	0.090	F	0.626	2500	G	2002
				From:	Grant Ave											
				To:	Sudley Rd											
(4356) Portner Ave	0.57	5500	G	93%	2%	3%	0%	1%	0%	C	0.089	F	0.583	5700	G	2002
				From:	Liberia Ave											
				To:	Centreville Rd											
(4357) Sudley Rd	0.76	23000	G	93%	2%	3%	0%	1%	0%	F	0.079	F	0.519	24000	G	2002
				From:	SR 234											
				To:	WCL Manassas											
(4358) Wellington Rd	0.78	14000	G	92%	1%	3%	2%	1%	0%	C	0.094	F	0.550	15000	G	2002
				From:	SR 28											
				To:	Clover Hill Rd											
(4358) Wellington Rd	1.07	15000	G	92%	1%	3%	2%	1%	0%	F	0.092	F	0.616	16000	G	2002
				From:	SR 234											
				To:	Wellington Rd											
(4359) Stonewall Rd	0.38	2300	G	97%	0%	2%	0%	0%	0%	F	0.103	F	0.776	2400	G	2002
				From:	Center St											
				To:	Sudley Rd											
(4359) Stonewall Rd	0.90	5200	G	97%	0%	2%	0%	0%	0%	C	0.095	F	0.537	5400	G	2002
				From:	155-4353 Fairview Ave											
				To:	SR 28 Centreville Rd											
(4361) Liberia Ave	1.77	35000	G	93%	1%	4%	1%	1%	0%	C	0.079	F	0.609	36000	G	2002
				From:	155-4365 Stonewall Rd											
				To:	NCL Manassas, 76-1530 Lomond Dr South											
(4361) Liberia Ave	1.18	12000	G	93%	1%	4%	1%	1%	0%	F	0.094	F	0.559	13000	G	2002
				From:	Sudley Rd											
				To:	Stonewall Ct											
(4361) Liberia Ave	0.41	9700	G	93%	1%	4%	1%	1%	0%	F	0.101	F	0.509	10000	G	2002
				From:	Liberia Ave											
				To:	Shannon Rd											
(4365) Stonewall Rd	0.49	5000	G	97%	0%	2%	0%	1%	0%	F	0.099	F	0.619	5200	G	2002
				From:	Cedar Ridge Dr											
				To:	Sarajevo Ct											
(4365) Stonewall Rd	0.26	4800	G	97%	0%	2%	0%	1%	0%	C	0.094	F	0.600	5000	G	2002
				From:	Tito Ct											
				To:	Jackson Avenue											
Greenleaf Dr		320	G								0.235	F		330	G	2002
				From:	Weems Road											
				To:	Grant Ave											
Karlo St		570	G								0.106	F		590	G	2002
				From:	Virginia Ave											
				To:	Bayberry Ave											
Longstreet Drive		430	G								0.103	F	0.578	430	G	2002
				From:	Thornwood Ln											
				To:	Stuart Avenue											
Meadowview Dr		270	G								0.133	F		280	G	2002
				From:	Robson Drive											
				To:	Oak Glen Rd											
Oak Glen Rd		250	G								0.156	F		260	G	2002
				From:	Bayberry Ave											
				To:	Thornwood Ln											
Peabody Street		360	G								0.107	F	0.579	360	G	2002
				From:	Oak Glen Rd											
				To:	Bayberry Ave											
Thornwood Ln		290	G								0.141	F		300	G	2002