

2005

**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
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 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
-  Frontage Road (F precedes frontage route number)
-  Secondary Route

Special Routes

-  Bus - Business Route
 Bypass - 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
Traffic Engineering Division
2005
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Manassas

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: SR 234, WCL Manassas															
(28) Nokesville Rd	City of Manassas	0.56	30000	G	96%	1%	1%	1%	1%	0%	F	0.077	F	0.592	33000	G
	To: 155-5 Godwin Dr															
(28) Nokesville Rd	City of Manassas	1.22	18000	F	96%	0%	2%	0%	1%	0%	C	0.078	F	0.564	19000	F
	To: Wellington Rd															
(28) Center St	City of Manassas	0.80	23000	F	98%	0%	1%	0%	0%	0%	C	0.079	F	0.573	25000	F
	To: Church St															
(28) Center St	City of Manassas	0.25	11000	G	96%	1%	1%	1%	1%	0%	F	0.078	F		12000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		23000	G	96%	1%	1%	1%	1%	0%	F	0.08	F	0.52	25000	G
	To: Bus SR 234															
(28) Center St	City of Manassas	0.37	13000	G	96%	1%	1%	1%	1%	0%	F	0.072	F		14000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		26000	G	96%	1%	1%	1%	1%	0%	F	0.075	F	0.556	29000	G
	To: Zebedee St															
(28) Zebedee St	City of Manassas	0.11	12000	G	96%	1%	1%	1%	1%	0%	F	0.079	F		13000	G
	To: Centreville Rd															
(28) Centreville Rd	City of Manassas	0.38	18000	G	96%	1%	1%	1%	1%	0%	F	0.074	F	0.525	20000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		32000	G	96%	1%	1%	1%	1%	0%	F	NA			34000	G
	To: Prescott Ave															
(28) Centreville Rd	City of Manassas	0.86	29000	G	96%	1%	1%	1%	1%	0%	F	0.07	F	0.532	31000	G
	To: Prince William County Line															
	From: SR 28															
(28) Church Street	City of Manassas	0.29	12000	G	96%	1%	1%	1%	1%	0%	F	0.084	F		12000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		23000	G	96%	1%	1%	1%	1%	0%	F	0.08	F	0.52	25000	G
	To: SR 234															
(28) Church Street	City of Manassas	0.82	13000	G	96%	1%	1%	1%	1%	0%	F	0.083	F		14000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		26000	G	96%	1%	1%	1%	1%	0%	F	0.075	F	0.556	29000	G
	To: Center Street															
	From: SCL Manassas															
Bus (234) Dumfries Rd	City of Manassas	0.46	9800	G	97%	0%	2%	0%	1%	0%	F	0.083	F	0.627	11000	G
	To: 155-6 Hastings Drive															
Bus (234) Dumfries Rd	City of Manassas	0.55	15000	N	97%	1%	1%	0%	0%	0%	N	0.090	N	0.681	16000	N
	To: 155-4352 Richmond Ave															
Bus (234) Grant Ave	City of Manassas	0.63	15000	G	97%	1%	1%	0%	0%	0%	F	0.090	F	0.681	16000	G
	To: Prince William St															
Bus (234) Grant Ave	City of Manassas	0.12	19000	G	97%	1%	1%	0%	0%	0%	F	0.084	F	0.662	21000	G
	To: SR 28 Church St															

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 City of Manassas

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
Bus 234 Grant Ave	From: SR 28 Church St City of Manassas	0.44	11000	G	97%	1%	1%	0%	0%	0%	F	0.08	F	0.603	12000	G
Bus 234 Grant Ave	To: Beauregard Ave From: City of Manassas	0.32	11000	G	97%	1%	1%	0%	0%	0%	F	0.082	F	0.544	12000	G
Bus 234 Sudley Rd	To: Sudley Rd From: Grant Ave City of Manassas	1.18	33000	G	97%	1%	1%	0%	0%	0%	C	0.08	F	0.557	36000	G
	To: NCL Manassas															

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
City of Manassas																	
(9463/76)	0.15	110	R								NA		NA			1994	
(9528/76)	0.21	NA									NA		NA				
(1)	Ashton Ave	0.72	6800	G	99%	0%	1%	0%	0%	0%	C	0.092	F	0.575	7400	G	2005
(2)	Clover Hill Rd	0.05	NA								NA		NA				
(2)	Clover Hill Rd	0.45	2900	G	97%	0%	2%	0%	0%	0%	F	0.095	F	0.529	3200	G	2005
(2)	Clover Hill Rd	0.78	4200	G	97%	0%	2%	0%	0%	0%	C	0.099	F	0.574	4600	G	2005
(3)	Cockrell Rd	0.27	6400	F	97%	0%	1%	0%	1%	0%	C	0.09	F	0.596	7000	F	2005
(4)	Euclid Ave	0.36	7200	G	93%	1%	3%	2%	1%	0%	F	0.092	F	0.643	7900	G	2005
(4)	Euclid Ave	0.34	14000	G	93%	1%	3%	2%	1%	0%	C	0.087	F	0.553	15000	G	2005
(5)	Godwin Dr	0.88	2000	G	97%	0%	1%	0%	1%	0%	F	0.103	F	0.613	2200	G	2005
(5)	Godwin Dr	0.88	12000	G	95%	1%	1%	1%	2%	0%	C	0.084	F	0.554	14000	G	2005
(6)	Hastings Dr	1.50	5900	G	98%	1%	2%	0%	0%	0%	C	0.093	F	0.61	6400	G	2005
(6)	Hastings Dr	1.43	4500	G	98%	1%	2%	0%	0%	0%	F	0.084	F	0.584	4900	G	2005
(7)	Quarry Rd	0.56	3900	G	97%	1%	1%	1%	1%	0%	F	0.092	F	0.72	4300	G	2005
(8)	Signal Hill Rd	0.13	5000	G	97%	1%	1%	1%	1%	0%	F	0.097	F	0.629	5500	G	2005
(107)	Godwin Dr	2.01	17000	G	97%	1%	1%	1%	1%	0%	C	0.086	F	0.534	19000	G	2005
(4350)	Lucasville Rd	0.11	6500	G	99%	0%	1%	0%	0%	0%	F	0.104	F	0.693	7200	G	2005
(4352)	Richmond Ave	0.60	10000	G	97%	1%	1%	0%	0%	0%	C	0.09	F	0.53	11000	G	2005
(4352)	Richmond Ave	0.94	2000	G	97%	1%	1%	0%	0%	0%	F	0.099	F	0.548	2100	G	2005
(4353)	Fairview Ave	0.74	15000	G	98%	0%	1%	0%	0%	0%	C	0.096	F	0.588	16000	G	2005

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						2Axle	3+Axle	1Trail	2Trail								
City of Manassas																	
(4353) Fairview Ave	0.50	14000	G	98%	0%	1%	0%	0%	0%	F	0.089	F	0.591	15000	G	2005	
						From: 155-4352 Richmond Ave											
						To: SR 28 Center St											
(4355) Main St	0.24	1800	G	98%	1%	1%	0%	0%	0%	C	0.106	F	0.651	1900	G	2005	
						From: Center St											
						To: Portner Ave											
(4356) Portner Ave	0.43	2200	G	98%	1%	1%	0%	0%	0%	F	0.090	F	0.572	2400	G	2005	
						From: Grant Ave											
(4356) Portner Ave	0.57	4800	G	98%	1%	1%	0%	0%	0%	C	0.092	F	0.566	5200	G	2005	
						From: Sudley Rd											
						To: Liberia Ave											
(4357) Sudley Rd	0.76	22000	G	98%	1%	1%	0%	0%	0%	F	0.080	F	0.507	24000	G	2005	
						From: Centreville Rd											
						To: SR 234											
(4358) Wellington Rd	0.78	13000	F	98%	0%	1%	0%	0%	0%	C	0.094	F	0.542	14000	F	2005	
						From: WCL Manassas											
(4358) Wellington Rd	1.07	13000	F	98%	0%	1%	0%	0%	0%	C	0.092	F	0.61	14000	F	2005	
						From: SR 28											
(4358) Wellington Rd	0.61	11000	G	98%	0%	1%	0%	0%	0%	F	0.095	F	0.53	12000	G	2005	
						From: Clover Hill Rd											
						To: SR 234											
(4359) Stonewall Rd	0.38	430	G	99%	0%	1%	0%	0%	0%	F	0.123	F	0.701	470	G	2005	
						From: Dead End											
(4359) Stonewall Rd	0.90	5500	G	99%	0%	1%	0%	0%	0%	C	0.09	F	0.512	6000	G	2005	
						From: Center St											
						To: Sudley Rd											
(4361) Liberia Ave	1.77	41000	G	96%	1%	2%	1%	1%	0%	C	0.075	F	0.604	45000	G	2005	
						From: 155-4353 Fairview Ave											
(4361) Liberia Ave	1.18	14000	G	96%	1%	2%	1%	1%	0%	F	0.079	F	0.531	15000	G	2005	
						From: SR 28 Centreville Rd											
(4361) Liberia Ave	0.41	11000	G	96%	1%	2%	1%	1%	0%	F	0.090	F	0.508	12000	G	2005	
						From: 155-4365 Stonewall Rd											
						To: NCL Manassas, 76-1530 Lomond Dr South											
(4365) Stonewall Rd	0.49	3800	G	98%	0%	1%	0%	0%	0%	F	0.091	F	0.711	4100	G	2005	
						From: Sudley Rd											
(4365) Stonewall Rd	0.26	4200	G	98%	0%	1%	0%	0%	0%	C	0.092	F	0.631	4600	G	2005	
						From: Stonewall Ct											
						To: Liberia Ave											
Greenleaf Dr		230	G								0.131	F		260	G	2005	
						From: Shannon Rd											
						To: Cedar Ridge Dr											
Karlo St		600	G								0.104	F		660	G	2005	
						From: Sarajevo Ct											
						To: Tito Ct											
Longstreet Dr		480	G								0.098	F		480	G	2005	
						From: Jackson Ave											
						To: Weems Rd											
Meadowview Dr		300	G								0.123	F		330	G	2005	
						From: Grant Ave											
						To: Virginia Ave											
Oak Glen Rd		210	G								0.114	F		230	G	2005	
						From: Bayberry Ave											
						To: Thornwood Lane											

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						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
Peabody Street		290	G			From: Stuart Avenue				0.102	F	0.623	290	G	2005	
						To: Robson Drive										
Thornwood Ln		420	G			From: Oakglen Rd				0.1	F	460	G	2005		
						To: Bayberry Ave										