

2004

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

where available

Special Locality Report

119

Town of Marion

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 - 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
 Mobility Management Division
 2004
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Town of Marion

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
11 S Main St	Town of Marion	From: WCL Marion	0.52	8700	F	98%	1%	1%	0%	0%	0%	C	0.083	F	0.611	9600	F
		To: Greenway Ave															
11 S Main St	Town of Marion	From: Anderson St	0.40	8900	F	98%	1%	1%	0%	0%	0%	F	0.083	F	0.599	9800	F
		To: SR 16															
11 Main St	Town of Marion	From: SR 16	0.41	9400	F	98%	1%	1%	0%	0%	0%	F	0.080	F	0.528	10000	F
		To: SR 16 Commerce St															
11 16 Main St	Town of Marion	From: SR 16 Commerce St	1.19	17000	F	98%	1%	1%	0%	0%	0%	C	0.081	F	0.546	19000	F
		To: N Main St															
11 E Main St	Town of Marion	From: Pendleton St	0.20	13000	F	98%	1%	1%	0%	0%	0%	F	0.079	F	0.593	14000	F
		To: Staley St															
11 Main St	Town of Marion	From: Park St	0.13	18000	F	97%	1%	1%	0%	1%	0%	F	0.089	F	0.53	20000	F
		To: Keller St															
11 Main St	Town of Marion	From: ECL Marion	0.07	13000	F	97%	1%	1%	0%	1%	0%	F	0.092	F	0.54	14000	F
		To: SCL Marion															
11 N Main St	Town of Marion	From: SCL Marion	0.41	11000	F	97%	1%	1%	0%	1%	0%	C	0.104	F	0.544	12000	F
		To: I-81															
16 S Commerce Street	Town of Marion	From: I-81	0.25	6100	G	89%	2%	4%	1%	3%	0%	C	NA		6500	G	
		To: SR 217															
16 S Commerce Street	Town of Marion	From: SR 217	0.05	8300	F	89%	2%	4%	1%	3%	0%	F	0.096	F	0.589	9100	F
		To: US 11 Main St															
16 S Commerce Street	Town of Marion	From: US 11 Main St	0.68	7900	F	89%	2%	4%	1%	3%	0%	F	0.093	F	0.528	8700	F
		To: US 11 Main St															
16 11 Main St	Town of Marion	From: US 11 Main St	1.19	17000	F	98%	1%	1%	0%	0%	0%	C	0.081	F	0.546	19000	F
		To: NCL Marion															
16 Park Blvd	Town of Marion	From: NCL Marion	1.27	5700	F	98%	0%	1%	0%	0%	0%	C	0.089	F	0.619	6300	F
		From: WCL Marion															
North 81	Town of Marion (Maint: 86)	WCL Marion	0.22	18000	F	76%	1%	1%	1%	21%	1%	F	0.064	F		18000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			34000	F	77%	1%	1%	1%	20%	1%	F	NA			35000	F
North 81	Town of Marion (Maint: 86)	From: ECL Marion	0.27	18000	F	76%	1%	1%	1%	21%	1%	F	0.064	F		18000	F
		To: SCL Marion															
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			34000	F	77%	1%	1%	1%	20%	1%	F	NA			35000	F	
		From: SR 16															

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							2Axle	3+Axle	1Trail	2Trail						
North 81	From: SR 16															
	Town of Marion (Maint: 86)	0.68	14000	F	76%	1%	1%	1%	21%	1%	F	0.072	F	14000	F	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		31000	F	77%	1%	1%	1%	20%	1%	F	0.079	F	0.593	31000	F
	To: NCL Marion															
South 81	From: WCL Marion															
	Town of Marion (Maint: 86)	0.22	17000	F	78%	1%	1%	1%	18%	1%	F	0.086	F	17000	F	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		34000	F	77%	1%	1%	1%	20%	1%	F	NA		35000	F	
	To: ECL Marion															
South 81	From: SCL Marion															
	Town of Marion (Maint: 86)	0.90	17000	F	78%	1%	1%	1%	18%	1%	F	0.086	F	17000	F	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		34000	F	77%	1%	1%	1%	20%	1%	F	NA		35000	F	
	To: SR 16															
South 81	From: SR 16															
	Town of Marion (Maint: 86)	0.37	17000	F	78%	1%	1%	1%	18%	1%	F	0.083	F	17000	F	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		31000	F	77%	1%	1%	1%	20%	1%	F	0.079	F	0.593	31000	F
	To: NCL Marion															
217	From: Dead End															
	Town of Marion (Maint: 86)	2.20	1100	F	99%	0%	0%	0%	1%	0%	C	0.128	F	0.881	1200	F
	To: SR 16															

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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							
Town of Marion																
① N. Church St	0.22	1400	F	99%	0%	0%	0%	0%	0%	F	0.096	F	0.536	1500	F	2004
				From:	Lee Street											
				To:	Catron Street											
② Rte 645 Fowler St	0.02	1900	F	98%	0%	1%	0%	1%	0%	C	0.094	F	0.603	2100	F	2004
				From:	WCL Marion											
				To:	Chatham Hill Cir											
③ Pendleton St	0.11	4500	F	99%	0%	1%	0%	0%	0%	C	0.096	F	0.558	5000	F	2004
				From:	Commerce St											
				To:	E Main St											
④④⑤② Poston St	0.39	420	F	99%	0%	1%	0%	0%	0%	F	0.1	F	0.606	460	F	2004
				From:	US 11 Main St											
				To:	W Cherry St											
④④⑤② E Cherry St	0.21	3200	F	98%	0%	1%	0%	1%	0%	C	0.1	F	0.532	3500	F	2004
				From:	S Park St											
				To:	SR 16 Commerce St											
④④⑤③ S Church St	0.77	2300	F	98%	0%	1%	0%	1%	0%	F	0.088	F	0.583	2500	F	2004
				From:	SCL Marion											
				To:	US 11; E Main St											
④④⑤③ N Church St	0.11	1500	F	99%	0%	0%	0%	0%	0%	C	0.101	F	0.515	1600	F	2004
				From:	Lee St											
				To:	N Church St											
④④⑤③ Lee St	0.31	1400	F	97%	0%	2%	1%	0%	0%	C	0.098	F	0.587	1500	F	2004
				From:	US 11; N Main St											
				To:	US 11; N Main St											
④④⑤③ Chatham Hill Rd	0.15	5400	F	98%	0%	1%	0%	1%	0%	F	0.085	F	0.55	5900	F	2004
				From:	Chilhowie St											
				To:	NCL Marion											
④④⑤④ Chilhowie St	0.96	2700	F	98%	1%	1%	0%	1%	0%	C	0.086	F	0.617	3000	F	2004
				From:	WCL Marion											
				To:	Chatham Hill Cir											
④④⑤④ Chilhowie St	0.14	1900	G	99%	0%	0%	0%	0%	0%	F	NA			2000	G	2004
				From:	Main St											
				To:	N Main St											
④④⑤⑨ Keller La	0.70	1100	F	99%	0%	0%	0%	0%	0%	C	0.096	F	0.562	1200	F	2004
				From:	NCL Marion											
				To:	ECL Marion											
④④⑥① Johnston Rd	0.15	2400	F	96%	0%	1%	0%	2%	0%	C	0.133	F	0.763	2600	F	2004
				From:	US 11 Main St											
				To:	Look Ave											
1st Street		380	F								0.102	F		420	F	2004
				From:	Lincoln Ave											
				To:	Sprinkle Ave											
Catron St		340	F								0.112	F	0.682	380	F	2004
				From:	Wolfe Ave											
				To:	Prescott Ave											
Catron St		630	F								0.103	F	0.568	690	F	2004
				From:	Chilhowie St											
				To:	Clinton Ave											
Cumberland St		330	F								0.116	F	0.648	360	F	2004
				From:	Hulldale Ave											
				To:	Hulldale Ave											
Dalton St		270	F								0.144	F	0.625	290	F	2004
				From:	Greenway St											
				To:	Magnolia St											
Dogwood Dr		130	F								0.155	F	0.544	140	F	2004
				From:	Dead End											
				To:												

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						2Axle	3+Axle	1Trail	2Trail								
Town of Marion																	
E. Main St		1300	F			From: Action Pl					0.085	F	0.693	1400	F	2004	
						To: Oak St											
Hulldale Ave		50	F			From: Cumberland St					0.175	F	0.6	60	F	2004	
						To: Dead End											
Look Ave		490	F			From: 1St Street					0.093	F	0.514	540	F	2004	
						To: Chilhowie St											
Magnolia St		210	F			From: Dogwood Dr					0.119	F	0.5	220	F	2004	
						To: Hemlock St											
Magnolia St		260	F			From: Hemlock St					0.125	F	0.52	290	F	2004	
						To: Veteran St											
Mt View Dr		180	F			From: Golf View					0.103	F	0.558	200	F	2004	
						To: Country Club Rd											
Park St		470	F			From: Cherry St					0.094	F	0.555	510	F	2004	
						To: Dead End S Of Cherry											
Patton Ave		80	F			From: Cumberland St					0.201	F	0.632	90	F	2004	
						To: Dead End											
Pearl St		560	F			From: E. Cherry St					0.118	F	0.556	610	F	2004	
						To: E. High St											
Pendleton St		4800	F			From: Main St					0.087	F	0.517	5300	F	2004	
						To: Commerce St											
S. Iron St		950	F			From: E. High St					0.087	F	0.527	1000	F	2004	
						To: Walnut St											
Wassona Dr		1300	F	95%	0%	From: Wassona Dr	0%	3%	1%	0%	C	0.098	F	0.608	1400	F	2004
						To: Hemlock St											
Wassona Dr		1500	F	99%	0%	From: Hemlock St	0%	0%	0%	0%	C	0.11	F	0.508	1600	F	2004
						To: Veteran St											
Wolfe Ave		300	F			From: Oakley St					0.105	F	0.507	330	F	2004	
						To: Dover St											