2009
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
119

Town of Marion

Information in this report is included in Report

86

(Smyth 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 Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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Town of Marion

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From: WCL Marion; 86-730 Washington Ave															
11 S Main St	Town of Marion	0.52	**9200**	G	97%	1%	1%	0%	0%	0%	C	0.085	F	0.538	10000	G
	To: Greenway Ave															
11 S Main St	Town of Marion	0.40	**7900**	G	97%	1%	1%	0%	0%	0%	F	0.084	F	0.591	8600	G
	To: College St															
11 Main St	Town of Marion	0.41	**8400**	G	97%	1%	1%	0%	0%	0%	F	0.085	F	0.512	9100	G
	To: SR 16 S Commerce Street															
11 16 Main St	Town of Marion	0.08	**12000**	G	99%	0%	1%	0%	0%	0%	F	0.080	F	0.551	13000	G
	To: East Main St															
11 16 Main St	Town of Marion	0.17	**15000**	G	99%	0%	1%	0%	0%	0%	F	0.081	F	0.513	16000	G
	To: 119-4453 Chatham Hill Rd; Lee St															
11 16 Main St	Town of Marion	0.94	**16000**	G	99%	0%	1%	0%	0%	0%	C	0.089	F	0.500	18000	G
	To: SR 16 Park Blvd															
11 N Main St	Town of Marion	0.20	**15000**	G	97%	0%	1%	0%	1%	0%	F	0.085	F		17000	G
	To: 119-4459 Keller Lane															
11 N Main St	Town of Marion	0.65	**10000**	G	97%	0%	1%	0%	1%	0%	C	0.103	F	0.538	11000	G
	To: ECL Marion															
	From: SCL Marion															
16 S Commerce St	Town of Marion	0.25	**4700**	G	95%	0%	1%	1%	3%	0%	C	0.088	F	0.553	5000	G
	To: I-81															
16 S Commerce St	Town of Marion	0.05	**8000**	G	95%	0%	1%	1%	3%	0%	F	0.087	F	0.633	8700	G
	To: SR 217 State St															
16 S Commerce St	Town of Marion	0.68	**7400**	G	95%	0%	1%	1%	3%	0%	F	0.088	F	0.535	8000	G
	To: US 11 Main St															
16 11 Main St	Town of Marion	0.08	**12000**	G	99%	0%	1%	0%	0%	0%	F	0.080	F	0.551	13000	G
	To: East Main St															
16 11 Main St	Town of Marion	0.17	**15000**	G	99%	0%	1%	0%	0%	0%	F	0.081	F	0.513	16000	G
	To: Chatham Hill Rd; Lee St															
16 11 Main St	Town of Marion	0.94	**16000**	G	99%	0%	1%	0%	0%	0%	C	0.089	F	0.500	18000	G
	To: US 11 Main St															
16 Park Blvd	Town of Marion	1.27	**5700**	G	99%	0%	0%	0%	0%	0%	C	0.088	F	0.546	6100	G
	To: NCL Marion															
	From: WCL Marion															
North 81	Town of Marion (Maint: 86)	0.22	**14000**	G	78%	1%	1%	1%	18%	1%	F	NA			7400	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**28000**	G	80%	1%	1%	1%	17%	1%	F	NA			21000	G
	To: ECL Marion															
	From: SCL Marion															
North 81	Town of Marion (Maint: 86)	0.27	**14000**	G	78%	1%	1%	1%	18%	1%	F	NA			7400	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**28000**	G	80%	1%	1%	1%	17%	1%	F	NA			21000	G
	To: SR 16 Commerce St															

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North 81	From: SR 16 Commerce St															
	Town of Marion (Maint: 86)	0.68	**13000**	**G**	78%	1%	1%	1%	18%	1%	F	NA			NA	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**25000**	**G**	80%	1%	1%	1%	17%	1%	F	NA			NA	
	To: NCL Marion															
South 81	From: WCL Marion															
	Town of Marion (Maint: 86)	0.22	**14000**	**G**	82%	0%	1%	1%	15%	1%	F	NA			13000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**28000**	**G**	80%	1%	1%	1%	17%	1%	F	NA			21000	G
	To: ECL Marion															
South 81	From: SCL Marion															
	Town of Marion (Maint: 86)	0.90	**14000**	**G**	82%	0%	1%	1%	15%	1%	F	NA			13000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**28000**	**G**	80%	1%	1%	1%	17%	1%	F	NA			21000	G
	To: SR 16 Commerce St															
South 81	From:															
	Town of Marion (Maint: 86)	0.37	**13000**	**G**	82%	0%	1%	1%	15%	1%	F	NA			12000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**25000**	**G**	80%	1%	1%	1%	17%	1%	F	NA			NA	
	To: NCL Marion															
	From: Bagley Circle															
217 State St	Town of Marion (Maint: 86)	2.20	**1000**	**G**	99%	0%	0%	0%	0%	0%	C	0.122	F	0.853	1100	G
	To: SR 16 S Commerce Street															

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Town of Marion																
F9	0.11	**40**	**R**								NA			NA		08/08/2007
From: SCL Marion																
To: SCL Marion																
1 N Church St	0.22	**1500**	**G**	98%	1%	1%	0%	0%	0%	F	0.094	F	0.585	1600	G	2009
From: Lee Street																
To: Catron Street																
2 Fowler St	0.02	**1700**	**G**	99%	0%	1%	0%	0%	0%	C	0.096	F	0.631	1900	G	2009
From: WCL Marion																
To: Chatham Hill Cir																
3 Pendleton St	0.11	**4300**	**G**	98%	1%	1%	0%	0%	0%	C	0.095	F	0.545	4600	G	2009
From: Commerce St																
To: E Main St																
4452 Poston St	0.03	**320**	**G**	99%	0%	1%	0%	0%	0%	F	0.11	F	0.621	350	G	2009
From: US 11 Main St																
To: W Cherry St																
4452 W Cherry St	0.41	**1000**	**G**	99%	0%	1%	0%	0%	0%	F	0.109	F	0.502	1100	G	2009
From: Poston St																
To: 119-4453 S Church St																
4452 E Cherry St	0.16	**3500**	**G**	99%	0%	1%	0%	0%	0%	C	0.108	F	0.607	3900	G	2009
From: SR 16 Commerce St																
To: SCL Marion																
4453 S Church St	0.77	**2600**	**G**	99%	0%	1%	0%	0%	0%	F	0.097	F	0.561	2900	G	2009
From: US 11; E Main St																
To: Lee St																
4453 N Church St	0.11	**1600**	**G**	98%	1%	1%	0%	0%	0%	C	0.092	F	0.527	1700	G	2009
From: N Church St																
To: US 11; N Main St																
4453 Lee St	0.31	**1600**	**G**	99%	0%	0%	0%	0%	0%	C	0.104	F	0.728	1800	G	2009
From: US 11; N Main St																
To: Chilhowie St																
4453 Chatham Hill Rd	0.15	**4400**	**G**	98%	1%	1%	0%	0%	0%	F	0.086	F	0.597	4800	G	2009
From: Chilhowie St																
To: NCL Marion																
4453 Chatham Hill Rd	1.16	**3200**	**G**	98%	1%	1%	0%	0%	0%	C	0.099	F	0.521	3400	G	2009
From: WCL Marion																
To: 119-1 N Church St																
4454 Chilhowie St	0.60	**3000**	**G**	99%	1%	1%	0%	0%	0%	F	0.083	F	0.551	3200	G	2009
From: 119-1 N Church St																
To: Chatham Hill Rd																
4454 Chilhowie St	0.36	**2300**	**G**	99%	1%	1%	0%	0%	0%	C	0.090	F	0.589	2500	G	2009
From: Chatham Hill Rd																
To: US 11 Main St																
4454 Chilhowie St	0.14	**1400**	**G**	99%	1%	1%	0%	0%	0%	F	0.116	F	0.903	1600	G	2009
From: N Main St																
To: NCL Marion																
4459 Keller Lane	0.70	**1100**	**G**	99%	0%	1%	0%	0%	0%	C	0.106	F	0.538	1100	G	2009
From: ECL Marion																
To: US 11 Main St																
4461 Johnston Rd	0.15	**1600**	**G**	95%	1%	1%	1%	2%	0%	C	0.135	F	0.734	1800	G	2009
From: Look Ave																
To: Lincoln Ave																
1st St		**460**	**G**								0.1	F		500	G	2009
From: Prater Ln																
To: SR 16 Park Blvd																
Callan Lane		**3500**	**G**	99%	0%	0%	0%	0%	0%	C	0.099	F	0.577	3500	G	2009
From: Sprinkle Ave																
To: Wolfe Ave																
Catron St		**350**	**G**								0.133	F	0.556	380	G	2009

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Town of Marion																
		From: Prescott Ave														
Catron St		**600**	**G**								0.094	F	0.547	660	G	2009
		To: Chilhowie St														
		From: Clinton Ave														
Cumberland St		**250**	**G**								0.106	F	0.522	270	G	2009
		To: Hulldale Ave														
		From: Hulldale Ave														
Dalton St		**440**	**G**								0.117	F	0.667	480	G	2009
		To: Greenway St														
		From: Magnolia St														
Dogwood Dr		**120**	**G**								0.167	F	0.59	130	G	2009
		To: Dead End														
		From: Action Pl														
E Main St		**1300**	**G**								0.129	F	0.775	1400	G	2009
		To: Red Oak St														
		From: Cumberland St														
Hulldale Ave		**120**	**G**								0.166	F	0.509	130	G	2009
		To: Dead End														
		From: 1st Street														
Look Ave		**530**	**G**								0.106	F	0.527	570	G	2009
		To: Chilhowie St														
		From: Dogwood Dr														
Magnolia St		**170**	**G**								0.126	F	0.579	190	G	2009
		To: Hemlock St														
Magnolia St		From: **210**	**G**								0.123	F	0.631	230	G	2009
		To: Veteran St														
		From: Golf View														
Mt View Dr		**200**	**G**								0.109	F	0.529	210	G	2009
		To: Country Club Rd														
		From: Cherry St														
Park St		**460**	**G**								0.125	F	0.626	500	G	2009
		To: Dead End S Of Cherry														
		From: Cumberland St														
Patton Ave		**70**	**G**								0.152	F	0.536	80	G	2009
		To: Dead End														
		From: E. Cherry St														
Pearl St		**570**	**G**								0.149	F	0.725	620	G	2009
		To: E. Hiigh St														
		From: Sprinkle Ave														
Prater St		**1900**	**G**	99%	0%	1%	0%	0%	0%	C	0.107	F		1900	G	2009
		To: Callan Ln														
		From: E High St														
S Iron St		**890**	**G**								0.089	F		970	G	2009
		To: Walnut St														
		From: Wassona Dr														
Wassona Dr		**1300**	**G**								0.106	F	0.617	1400	G	2009
		To: Hemlock St														
Wassona Dr		From: **1300**	**G**	99%	0%	0%	0%	0%	0%	C	0.107	F	0.688	1400	G	2009
		To: Magnolia St														
		From: Oakley St														
Wolfe Ave		**220**	**G**								0.132	F	0.548	240	G	2009
		To: Dover St														