

2014
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

- 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
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2014
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							
		From:	WCL Marion; 86-730 Washington Ave														
11 S Main St	Town of Marion	0.52	9100	G	99%	0%	0%	0%	0%	C	0.094	F	0.636	9700	G		
		To:	Greenway Ave														
11 S Main St	Town of Marion	0.40	8700	G	99%	0%	0%	0%	0%	F	0.092	F	0.610	9200	G		
		To:	College St														
11 Main St	Town of Marion	0.41	8900	G	99%	0%	0%	0%	0%	F	0.082	F	0.509	9500	G		
		To:	SR 16 S Commerce Street														
11 16 Main St	Town of Marion	0.08	10000	G	99%	0%	0%	0%	0%	F	0.081	F	0.549	11000	G		
		To:	East Main St														
11 16 Main St	Town of Marion	0.17	14000	G	99%	0%	0%	0%	0%	F	0.082	F	0.549	14000	G		
		To:	119-4453 Chatham Hill Rd; Lee St														
11 16 Main St	Town of Marion	0.94	15000	G	99%	0%	0%	0%	0%	C	0.096	F	0.508	16000	G		
		To:	SR 16 Park Blvd														
11 N Main St	Town of Marion	0.20	13000	G	98%	0%	0%	0%	1%	F	0.095	F	0.514	14000	G		
		To:	119-4459 Keller Lane														
11 N Main St	Town of Marion	0.65	9900	G	98%	0%	0%	0%	1%	C	0.097	F	0.528	11000	G		
		To:	ECL Marion														
		From:	SCL Marion														
16 S Commerce St	Town of Marion	0.25	4400	G	97%	0%	1%	0%	1%	C	0.083	F	0.552	4600	G		
		To:	I-81														
16 S Commerce St	Town of Marion	0.05	7700	G	97%	0%	1%	0%	1%	F	0.086	F	0.539	8200	G		
		To:	SR 217 State St														
16 S Commerce St	Town of Marion	0.68	6700	G	97%	0%	1%	0%	1%	F	0.085	F	0.555	7100	G		
		To:	US 11 Main St														
16 11 Main St	Town of Marion	0.08	10000	G	99%	0%	0%	0%	0%	F	0.081	F	0.549	11000	G		
		To:	East Main St														
16 11 Main St	Town of Marion	0.17	14000	G	99%	0%	0%	0%	0%	F	0.082	F	0.549	14000	G		
		To:	Chatham Hill Rd; Lee St														
16 11 Main St	Town of Marion	0.94	15000	G	99%	0%	0%	0%	0%	C	0.096	F	0.508	16000	G		
		To:	US 11 Main St														
16 Park Blvd	Town of Marion	1.27	4700	G	99%	0%	0%	0%	0%	C	0.092	F	0.6	5000	G		
		To:	NCL Marion														
		From:	SR 16 S Commerce St														
16 Ramp to I-81 N at Exit 45	Town of Marion (Maint: 86)	0.24	1000	G							NA			1000	G		
		To:	I-81 N														
		From:	Ramps SR 16 N032B; SR 16 S032B														
16 Ramp to I-81 S at Exit 45	Town of Marion (Maint: 86)	0.13	2200	G							0.123	F		2200	G		
		To:	I-81 S														

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							2Axle	3+Axle	1Trail	2Trail						
North 16	From: SR 16 N, S Commerce St Town of Marion (Maint: 86) To: Ramp SR 16 32B	0.03	NA											NA	NA	
South 16	From: SR 16 S, S Commerce St Town of Marion (Maint: 86) To: Ramp SR 16 32B	0.04	NA											NA	NA	
North 81	From: WCL Marion Town of Marion (Maint: 86) To: ECL Marion	0.22	15000	A	79%	1%	1%	1%	18%	1%	F	0.11	A	15000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	A	80%	1%	1%	1%	17%	1%	F	NA		29000	A	
North 81	From: SCL Marion Town of Marion (Maint: 86) To: ECL Marion	0.27	15000	A	79%	1%	1%	1%	18%	1%	F	0.11	A	15000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	A	80%	1%	1%	1%	17%	1%	F	NA		29000	A	
North 81	From: SR 16 Commerce St Town of Marion (Maint: 86) To: NCL Marion	0.68	14000	G	79%	1%	1%	1%	18%	1%	F	0.074	F	15000	G	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			27000	G	80%	1%	1%	1%	17%	1%	F	0.081	F	28000	G	
North 81	From: I-81 North Town of Marion (Maint: 86) To: SR 16 S Commerce St	0.15	NA											NA	NA	
South 81	From: WCL Marion Town of Marion (Maint: 86) To: ECL Marion	0.22	15000	A	81%	1%	1%	1%	15%	1%	F	0.111	A	15000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	A	80%	1%	1%	1%	17%	1%	F	NA		29000	A	
South 81	From: SCL Marion Town of Marion (Maint: 86) To: ECL Marion	0.90	15000	A	81%	1%	1%	1%	15%	1%	F	0.111	A	15000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	A	80%	1%	1%	1%	17%	1%	F	NA		29000	A	
South 81	From: SR 16 Commerce St Town of Marion (Maint: 86) To: NCL Marion	0.37	13000	G	81%	1%	1%	1%	15%	1%	F	0.089	F	14000	G	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			27000	G	80%	1%	1%	1%	17%	1%	F	0.081	F	28000	G	
South 81	From: I-81 South Town of Marion (Maint: 86) To: I-81 South Exit 45B to SR 16	0.20	1100	G								0.103	F	1100	G	
South 81	From: I-81-S045B TO RT 16 NORTH Town of Marion (Maint: 86) To: SR 16 TO & FROM RT 81	0.02	NA											NA	NA	
South 81	From: Ramp I-81 S045A Town of Marion (Maint: 86) To: SR 16 N, S Commerce St	0.03	NA											NA	NA	

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							2Axle	3+Axle	1Trail	2Trail							
	From:	Bagley Circle															
217 State St	Town of Marion (Maint: 86)	2.20	1100	G	98%	0%	1%	0%	1%	0%	C	0.131	F	0.861	1200	G	
	To:	SR 16 S Commerce Street															

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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																	
(F9)	0.11	20	R								NA			NA		04/24/2014	
			From: SCL Marion														
			To: SCL Marion														
(1)	N Church St	0.22	1600	G	97%	1%	1%	1%	0%	0%	F	0.088	F	0.524	1700	G	2014
			From: Lee Street														
			To: Catron Street														
(2)	Fowler St	0.02	1600	G	98%	1%	0%	1%	0%	0%	C	0.106	F	0.602	1700	G	2014
			From: WCL Marion														
			To: Chatham Hill Cir														
(3)	Pendleton St	0.11	3800	G	99%	0%	0%	0%	0%	0%	C	0.094	F	0.569	4100	G	2014
			From: Commerce St														
			To: E Main St														
(4452)	Poston St	0.03	340	G	99%	0%	0%	0%	0%	0%	F	0.115	F	0.761	360	G	2014
			From: US 11 Main St														
			To: W Cherry St														
(4452)	W Cherry St	0.41	1000	G	99%	0%	0%	0%	0%	0%	F	0.117	F	0.544	1100	G	2014
			From: Poston St														
(4452)	E Cherry St	0.16	3100	G	99%	0%	0%	0%	0%	0%	C	0.103	F	0.52	3300	G	2014
			From: 119-4453 S Church St														
			To: SR 16 Commerce St														
(4453)	S Church St	0.77	2100	G	99%	0%	0%	0%	0%	0%	F	0.095	F	0.557	2300	G	2014
			From: SCL Marion														
(4453)	N Church St	0.11	1400	G	97%	1%	1%	1%	0%	0%	C	0.096	F	0.513	1500	G	2014
			From: US 11; E Main St														
(4453)	Lee St	0.31	2400	G	99%	0%	1%	0%	0%	0%	C	0.103	F	0.751	2600	G	2014
			From: Lee St														
			To: N Church St														
(4453)	Chatham Hill Rd	0.15	3700	G	99%	1%	0%	0%	0%	0%	F	0.085	F	0.546	3900	G	2014
			From: US 11; N Main St														
			To: US 11; N Main St														
(4453)	Chatham Hill Rd	1.16	2300	G	99%	1%	0%	0%	0%	0%	C	0.099	F	0.523	2500	G	2014
			From: Chilhowie St														
			To: NCL Marion														
(4454)	Chilhowie St	0.60	3100	G	99%	0%	0%	0%	0%	0%	F	0.092	F	0.601	3300	G	2014
			From: WCL Marion														
(4454)	Chilhowie St	0.36	2000	G	99%	0%	0%	0%	0%	0%	C	0.097	F	0.617	2100	G	2014
			From: 119-1 N Church St														
(4454)	Chilhowie St	0.14	1300	G	99%	0%	0%	0%	0%	0%	F	0.122	F	0.923	1400	G	2014
			From: Chatham Hill Rd														
			To: US 11 Main St														
(4459)	Keller Lane	0.70	1100	G	99%	0%	0%	0%	0%	0%	C	0.098	F	0.535	1100	G	2014
			From: N Main St														
			To: NCL Marion														
(4461)	Johnston Rd	0.15	1100	G	98%	1%	1%	0%	1%	0%	C	0.128	F	0.586	1200	G	2014
			From: ECL Marion														
			To: US 11 Main St														
	1st St		400	G							0.108	F	0.702	420	G	2014	
			From: Look Ave														
			To: Lincoln Ave														
	Baughman Avenue		1400	G	98%	0%	1%	0%	0%	0%	C	0.105	F	0.541	1400	G	2014
			From: Country Club Rd														
			To: Meadow Dr														
	Callan Lane		3400	G	99%	0%	0%	0%	0%	0%	C	NA		3400	G	2014	
			From: Prater Ln														
			To: SR 16 Park Blvd														

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						2Axle	3+Axle	1Trail	2Trail							
Town of Marion																
From Sprinkle Ave																
Catron St		340	G							0.101	F	0.595	360	G	2014	
To Wolfe Ave																
From Prescott Ave																
Catron St		640	G							0.089	F	0.61	680	G	2014	
To Chilhowie St																
From Clinton Ave																
Cumberland St		310	G							0.093	F	0.524	330	G	2014	
To Huldale Ave																
From Huldale Ave																
Dalton St		290	G							0.101	F	0.547	310	G	2014	
To Greenway St																
From Magnolia St																
Dogwood Dr		120	G							0.129	F	0.765	130	G	2014	
To Dead End																
From Oak St																
E Main St		950	G							0.111	F	0.5	1000	G	2014	
To Cedar St																
From Cumberland St																
Huldale Ave		80	G							0.163	F	0.571	80	G	2014	
To Dead End																
From 1st Street																
Look Ave		400	G							0.098	F	0.541	430	G	2014	
To Chilhowie St																
From Dogwood Dr																
Magnolia St		170	G							0.137	F	0.509	180	G	2014	
To Hemlock St																
From Hemlock St																
Magnolia St		210	G							0.119	F	0.667	220	G	2014	
To Veteran St																
From Golf View																
Mt View Dr		180	G							0.119	F	0.5	190	G	2014	
To Country Club Rd																
From Cherry St																
Park St		360	G							0.106	F	0.631	390	G	2014	
To Dead End S Of Cherry																
From Cumberland St																
Patton Ave		80	G							0.189	F	0.647	90	G	2014	
To Dead End																
From E. Cherry St																
Pearl St		580	G							0.113	F	0.603	610	G	2014	
To E. High St																
From Sprinkle Ave																
Prater St		1800	G	99%	0%	1%	0%	0%	0%	C	NA		1800	G	2014	
To Callan Ln																
From E High St																
S Iron St		880	G							0.108	F	0.525	930	G	2014	
To Walnut St																
From Wassona Dr																
Wassona Dr		1300	G							0.101	F	0.577	1400	G	2014	
To Hemlock St																
From Hemlock St																
Wassona Dr		1400	G	99%	0%	0%	0%	0%	0%	C	0.096	F	0.563	1500	G	2014
To Magnolia St																
From Oakley St																
Wolfe Ave		260	G							0.133	F	0.534	280	G	2014	
To Dover St																