2008

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

where available

Special Locality Report 156

Town of Warrenton

Information in this report is included in Report

30

(Fauquier 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 81	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
29	US Route	
7	Virginia State Rou	te
(F241)	Frontage Road (F	precedes frontage route number)
(600)	Secondary Route	

Special Routes

Bus	Bus - Business Route
29	Bypas - Bypass Route
	Truck - Truck Route
ALT	ALT - Alternate Route
(220)	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.

Virginia Department of Transportation Traffic Engineering Division

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

		I own of Warrei	IIIOII								14				
Route	Jurisdiction	Length AADT	QA	4Tire	Bus		Tru			QC	_ K	QK		AAWDT	QW
						2Axle	3+Axle	1Trail	2Trail		Factor		Factor	AAWDT 45000 12000 4800 6700 7800 6700 7900 8400 35000 12000 12000 15000 23000	
	Towns of Managers (Mariet 200)	SCL Warrenton		000/	40/	40/	40/	70/	00/	_	0.074	_	0.500	45000	_
[15] [29] Eastern Bypass	Town of Warrenton (Maint: 30)	0.26 45000 NCL Warrenton	G	90%	1%	1%	1%	7%	0%	F	0.074	F	0.599	45000	G
Bus Bus Bus	From:	SCL Warrenton												45000 12000 4800 6700 7800 6700 7900 8400 35000	
(15) (17) (29) James Madison Hwy	Town of Warrenton	0.34 11000	N	98%	1%	1%	0%	1%	0%	N	0.102	N		12000	N
Bus	To: From:	US 17 Bus; Shirley	/ Ave												
15 Falmouth St	Town of Warrenton	0.89 4400	G	97%	1%	1%	0%	1%	0%	С	0.092	F	0.576	Factor 0.599	G
(13)				0.70	.,,		0,0	.,,	0,0		0.002	•	0.0.0	.000	·
Bus	From:	Mockingbird La	ne												
15 Falmouth St	Town of Warrenton	0.32 6200	G	98%	1%	1%	0%	0%	0%	С	0.095	F	0.527	6700	G
<u> </u>	To:	Main St													
Bus	From:	Falmouth St								_		_			_
(15) Main St	Town of Warrenton	0.05 7600	G	98%	1%	1%	0%	0%	0%	С	0.095	F	0.531	7800	G
Due Due	To: From:	US 211 Bus													
Bus Bus 15 211 Main St	Town of Warrenton	0.01 6200	N	98%	1%	1%	0%	0%	0%	N	0.095	N	0.527	6700	N
(15) (211) Main St	To:	Alexandria Pike		3070	170		070	070	070	11	0.000	14	0.521	12000 12000 12000 3 4800 7 6700 7 6700 4 7900 2 8400 3 35000 12000 12000 1 15000 7 23000	IN
Bus Bus	From:	Main St													
15) (211) Alexandria Pike	Town of Warrenton	0.24 7300	G	99%	0%	1%	0%	0%	0%	С	0.106	F	0.524	7900	G
	To:	Vina Ct													
Bus Bus	From:	King St													
15 (211) Alexandria St	Town of Warrenton	0.21 7700	G	98%	0%	1%	0%	0%	0%	F	0.103	F	0.512	8400	G
	To:	Blackwell Rd													
Bus Bus 15 211 Blackwell Rd	Town of Warrenton	Alexandria Pike 0.58 8000	e G	98%	0%	1%	0%	0%	0%	С	0.400	F	0.515	0000	G
15) (211) Blackwell Rd	Town or warrenton	US 29 Bus US 211; L		96%	0%	1%	0%	U%	0%	C	0.102	Г	0.515	8600	G
Bus Bus	From:	US 29 Bus US 211; Blace		Rd		+									
15) (29) Lee Highway	Town of Warrenton	0.59 32000	G	97%	1%	1%	1%	1%	0%	С	0.083	F	0.548	35000	G
13) (23)	To:	NCL Warrenton	n											45000 12000 4800 6700 7800 6700 7900 8400 35000 12000 12000 15000 23000	
	From:	SCL Warrenton	n												
(17)	Town of Warrenton (Maint: 30)	1.52 12000	G	70%	1%	2%	2%	24%	1%	С	0.078	F		12000	G
[17]	То:	NCL Warrenton		. 0 / 0	.,,		_,,	, 0	. 70		0.0.0	•		AAWDT 599 45000 12000 576 4800 527 6700 527 6700 524 7900 512 8400 515 8600 548 35000 12000 12000 544 15000 507 23000	G
Dura Dura Dura	From	SCL Warrenton													
Bus Bus Bus 17 / 15 / 29 James Madison Hwy	Town of Warrenton	0.34 11000	N N	98%	1%	1%	0%	1%	0%	N	0.102	N		12000	Ν
17) (15) (29) James Madison Hwy	To:	Bus US 15	- 14	30 /0	1 /0	170	0 70	1 /0	070	14	0.102	IN		12000	11
Bus Bus	From:	Bus US 15 Falmou	ıth St												
17 (29) East Shirley Ave	Town of Warrenton	0.96 14000	G	97%	1%	1%	0%	0%	0%	С	0.088	F	0.544	15000	G
	To	Culmorran Ct													
Bus Bus	From:	Culpeper St													
17 29 West Shirley Ave	Town of Warrenton	0.80 21000	G	97%	1%	1%	0%	0%	0%	С	0.083	F	0.507	23000	G
\bigcirc	To:	Bus US 211 Waterl	loo St			\neg \vdash									
Bus Bus	From:L			000/	40/	40/	00/	007	00/	_	0.004	_	0.504	20000	_
(17) (29) (211) Broadview Ave	Town of Warrenton	0.86 36000	G	98%	1%	1%	0%	0%	0%	С	0.081	F	0.594	39000	G
	10:	Bus US 29 Lee H	iwy												

Virginia Department of Transportation Traffic Engineering Division

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

		Town or warrenton				Tru	rck			K		Dir		
Route	Jurisdiction	Length AADT QA	4Tire	Bus		3+Axle			QC	Factor	QK		AAWDT	QW
Bus	From:	Bus US 29 Lee Hwy			2,300	O I /ANIC	iiiaii	LITUII		1 40101		1 40101		
17 Broadview Ave	Town of Warrenton	0.57 12000 G	98%	1%	1%	0%	0%	0%	С	0.094	F	0.633	13000	G
	То:	NCL Warrenton												
	From:	SCL Warrenton												
29 (15) Eastern Bypass	Town of Warrenton (Maint: 30)	0.26 45000 G	90%	1%	1%	1%	7%	0%	F	0.074	F	0.599	45000	G
	To:	NCL Warrenton												
Bus Bus Bus	From:	SCL Warrenton												
29 (15) (17) James Madison Hwy	Town of Warrenton	0.34 11000 N	98%	1%	1%	0%	1%	0%	Ν	0.102	Ν		12000	Ν
\bigcirc	To:	BUS US 17 Shirley Ave	:										13000 45000 12000 15000 23000 39000 35000 25000 39000 33000 3400	
Bus Sus 29 17 East Shirley Ave	Town of Warrenton	BUS US 15 0.96 14000 G	97%	1%	 1%	0%	0%	0%	С	0.088	F	Factor F 0.633 13000 F 0.599 45000 N 12000 F 0.544 15000 F 0.594 39000 F 0.556 33000 F 0.647 25000 F 0.594 39000 F 0.594 39000 F 0.596 33000 F 0.556 33000 F 0.556 33000	G	
29 17 East Shirley Ave	Town or Warrenton	0.90 14000 G	31 /0	1 /0	1 70	070	070	076	C	0.000	'	0.544	13000	O
Bus Bus	To: From:	Culpeper St												
29) (17) West Shirley Ave	Town of Warrenton	0.80 21000 G	97%	1%	1%	0%	0%	0%	С	0.083	F	0.507	23000	G
\bigcirc	To:	US 17, US 211												
Bus Bus	Town of Warrenton		98%	10/	10/	0%	0%	0%	С	0.001	_	0.504	20000	G
29 17 211 Broadview Ave	rown or warrenton	0.86 36000 G	96%	1%	1%	0%	0%	0%	C	0.081	Г	0.594	39000	G
Bus	To: From:	Bus US 17 Broadview Av	ve											
29 211 Lee Highway	Town of Warrenton	0.55 30000 G	98%	1%	1%	0%	1%	0%	С	0.078	F	0.556	33000	G
\bigcirc	To:	Bus US 15 Blackwell Ro	l											
Bus Bus	From:	BUS US 15	070/	40/	40/	40/	40/	00/	_	0.000	_	0.540	05000	_
29 15 Lee Highway	Town of Warrenton	0.59 32000 G NCL Warrenton	97%	1%	1%	1%	1%	0%	С	0.083	г	0.548	35000	G
	- 1													
Front Aug	Town of Warrenton	WCL Warrenton 0.48 23000 G	97%	1%	1%	0%	0%	0%	С	0.086	_	0.647	25000	G
211 Frost Ave	Town or Warrenton	Bus US 17; Bus US 29	9176	170	176	0%	0%	0%	C	0.000	Г	0.047	23000	G
Bus Bus	From:	Shirley Ave; Bus US 17												
211 (17) (29) Broadview Ave	Town of Warrenton	0.86 36000 G	98%	1%	1%	0%	0%	0%	С	0.081	F	0.594	39000	G
\sim	Tox	Bus US 17 Broadview Av	ve .											
Bus	From:			40/	40/	00/	40/	00/	_	0.070	_	0.550	00000	_
211 29 Lee Highway	Town of Warrenton	0.55 30000 G Bus US 15 Blackwell Ro	98%	1%	1%	0%	1%	0%	С	0.078	F	0.556	33000	G
	Earl		l											
Bus 211 Waterloo St	Town of Warrenton	Broadview Ave 0.62 7800 G	98%	1%	10/	00/	00/	0%	С	0.095	_	0.600	9400	G
211 Waterioo St	rown or warrenton		96%	170	1%	0%	0%	0%	C	0.095	Г	0.600	6400	G
Bus	Ta: From:	Diagonal St												
211 Waterloo St	Town of Warrenton	0.10 6700 G	98%	1%	1%	0%	0%	0%	F	0.101	F	0.532	7300	G
	To:	US 15 Bus											13000 45000 12000 15000 23000 33000 35000 25000 39000 33000 7300 6700	
Bus Bus	From:	Bus US 15	0001	407		001	001	001		0.005		0.507	0700	
211 (15) Main St	Town of Warrenton	0.01 6200 N	98%	1%	1%	0%	0%	0%	N	0.095	N	0.527	6700	N
Bus Bus	From:	Alexandria Pike Main St												
211 (15) Alexandria Pike	Town of Warrenton	0.24 7300 G	99%	0%	1%	0%	0%	0%	С	0.106	F	0.524	7900	G
211) (13) * **********************************	To:	King St	-0,0	-,0		- / 0	- / 0	- / 0	•		-	 -	. 500	•

Virginia Department of Transportation Traffic Engineering Division

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route	Jurisdiction -	Length AAD1	QA	4Tire	Bus	2Axle			2Trail	Ω C	K Factor	QK	Dir Factor	AAWDT	QW
Bus Bus	Town of Warrenton	King S 0.21 7700	G	98%	0%	1%	0%	0%	0%	F	0.103	F	0.512	8400	G
211 15 Alexandria St	To:	Blackwell		30 70	070	1 70	070	070	070	'	0.103	'	0.512	0400	
Bus Bus	From:	Alexandria Pike													
211 \ 15 Blackwell Rd	Town of Warrenton	0.58 8000	G	98%	0%	1%	0%	0%	0%	С	0.102	F	0.515	8600	G
	To:	US 29 BUS US 2	1 Lee Hw	y											

Virginia Department of Transportation Traffic Engineering Division 2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

						Town of Warrer	nton								
Route	Length	AADT	QA	4Tire	Bus	Tru 2Axle 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warrenton		From:	1			w				ī					
2 Alexandria Pike	0.58	260	G	95%	2%	Blackwell Rd 2% 0% Dead End	1%	0%	С	0.119	F	0.611	290	G	2008
		From:	l			Broadview Ave				1					
3 Oak Springs Dr	0.26	3200 To:	G	99%	0%	0% 0% Branch Dr	0%	0%	С	0.093	F	0.519	3500	G	2008
4 Branch Dr	0.19	From: 5300	G	98%	0%	Lee Highway	0%	0%	С	0.103	F	0.508	5800	G	2008
		To:				Oak Springs Dr									
Roar Wallow Pd	0.40	From: 4600	G	98%	1%	WCL Warrenton	0%	09/	С	0.092	_	0.700	5000	G	2008
(880) Bear Wallow Rd	0.49	4000 To:		96%	1%	Broadview Ave		0%	C	0.092	F	0.709	5000	G	2008
		From:	I			WCL Warrenton									
(886) Waterloo Rd	0.58	3700	G	98%	0%	1% 0%	0%	0%	С	0.130	F	0.746	4000	G	2008
		To: From:				Rappahannock S	t								
(886) Rappahannock St	0.03	2100	G	98%	0%	Waterloo Rd	0%	0%	F	0.123	F	0.923	2200	G	2008
(886) Rappahannock St	0.00	To:	Ť	0070	070	US 211 Frost Av		070			•	0.020	2200	Ū	2000
		From:				Falmouth St									
(893) Old Meetze Rd	0.37	470	G	94%	2%	2% 0%	1%	0%	С	0.124	F	0.633	510	G	2008
		To:				Dead End									
	0.40	From:	Ļ	200/	00/	Alexandria St	201	201	_		_	0.004	4400		0000
(1893) Winchester St	0.42	3800	G	99%	0%	1% 0%	0%	0%	С	0.092	F	0.604	4100	G	2008
(1893) Winchester St	0.69	From: 4500	G	99%	0%	King St 1% 0%	0%	0%	С	0.093	F	0.595	4900	G	2008
(1893) Winchester St	0.00	To:	Ť	0070	070	Lee Highway	070	070			•	0.000	1000	Ū	2000
		From:				Shirley Ave									
(1894) Culpeper St	0.38	2900	G	99%	0%	1% 0%	0%	0%	С	0.104	F	0.715	3100	G	2008
		To: From:				Hotel St									
(1894) Culpeper St	0.04	1600	G	99%	0%	1% 0%	0%	0%	F	0.095	F		1700	G	2008
		To:	<u> </u>			Main St									
(1895) Old Broadview Ave	0.17	From:	G	99%	0%	US 15 1% 0%	09/	Ω9/:	С	0.001	_	0.529	6200	G	2008
(1895) Old Broadview Ave	0.17	5800 To:		99%	0%	1% 0% US 17	0%	0%	C	0.091	Г	0.526	6200	G	2008
		From:	I			Lee Highway									
Branch Dr		4700	G			nee riigiiway				0.094	F	0.508	5100	G	2008
		To:				Arbor Ct									
		From:				SCL Warrenton	1								
Culpeper St		5400	G	98%	1%	1% 0%	0%	0%	С	0.090	F	0.589	5400	G	2008
		To:				Fisher Ln									
Foot Ct		From:	<u> </u>			Main St				0.100	_	0.004	170	_	2000
East St		160 To:	G			ECL. Warrenton	1			0.109	F	0.821	170	G	2008
		From:	! 			Bus US 29	•			1					
Fletcher Dr		1600	G	98%	1%	1% 0%	0%	0%	С	0.118	F	0.574	1600	G	2008
		To:				Oak Springs Dr									
		From:				Bear Wallow D	r							G 200 G 200	
Foxcroft Rd		1600	G	99%	1%	1% 0%	0%	0%	С	0.091 F 0.528 6200 G 2008 0.094 F 0.508 5100 G 2008 0.090 F 0.589 5400 G 2008 0.109 F 0.821 170 G 2008 0.118 F 0.574 1600 G 2008 0.138 F 0.652 1600 G 2008					
		To	<u> </u>			Fauquier Rd									
1 oo S+		From:	<u> </u>	070/	10/	3rd St	10/	00/		0.101	_	0.576	4400	C	2000
Lee St		4100 To:	G	97%	1%	1% 0% 4th St	1%	0%	С	0.101	F	0.576	4100	G	∠∪∪8
		From:	l			Falmouth St									
Meetze Rd		10000	G	98%	1%	1% 0%	0%	0%	С	0.100	F	0.533	10000	G	2008
		To:				East St									