2009

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

2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

		I own of Warre	SHILOH												
Route	Jurisdiction	Length AADT	QA	4Tire	Bus		Tru			QC	K	QK	Dir	AAWDT	QW
						2Axle	3+Axle	1Trail	2Trail		Factor		Factor		
~~-	From:									_		_			_
(15) (29) Eastern Bypass	Town of Warrenton (Maint: 30)			91%	1%	1%	1%	6%	0%	F	0.074	F	0.599	46000	G
~ ~	10:	NCL Warrent	on												
Bus Bus Bus	From:	SCL Warrent	on												
15 17 29 James Madison Hwy	Town of Warrenton	0.34 11000	N	98%	1%	1%	0%	1%	0%	Ν	0.102	Ν	0.591	11000	Ν
	To: From:	US 17 Bus; Shirle	y Ave			\neg \vdash									
Bus 15 (Falmouth St	Town of Warranton	0.90 4200	_	070/	10/	10/	00/	10/	00/	C	0.002	_	0.576	4700	G
[15] Falmouth St	TOWIT OF WAITERIOR	0.09 4300	G	9170	170	1 70	0%	170	0%	C	0.092	Г	0.576	4700	G
Bus	To: From:	Mockingbird L	ane												
15 Falmouth St	Town of Warrenton	0.32 5900	G	98%	1%	1%	0%	0%	0%	С	0.095	F	0.527	6400	G
(13)	To:	Main St				Ti.			-,-	_					_
Bus	From:	Falmouth S	t												
15 Main St	Town of Warrenton	0.05 7000	G	98%	1%	1%	0%	0%	0%	С	0.095	Ν	0.527	7100	G
<u> </u>	To:	US 211 Bus													
Bus Bus	From:														
(15) (211) Main St	Town of Warrenton			98%	1%	1%	0%	0%	0%	N	0.095	N	0.527	6400	Ν
Dua Bua	From:		ke												
Bus Bus 15 211 Alexandria Pike	Town of Warrenton		G	99%	0%	1%	0%	0%	0%	C	0.106	F	0.524	7400	G
(15) (211) Alexandria Pike		0.24 0300		9970	076	1 70	0 70	070	070	C	0.100	'	0.524	7400	O
Bus Bus	To: From:	King St													
15 211 Alexandria St	Town of Warrenton	0.21 7300	G	98%	0%	1%	0%	0%	0%	F	0.103	F	0.512	7900	G
	To:	Blackwell R	d												
Bus Bus	From:														
15) (211) Blackwell Rd	Town of Warrenton			98%	0%	1%	0%	0%	0%	С	0.102	F	0.515	8100	G
	To:														
Bus Bus	Town of Worrenton				40/	10/	40/	40/	00/	_	0.000	_	0.540	22000	_
15 29 Lee Highway	Town of Warrenton U.S. 17 Bus; Shirley Ave	97%	1%	1%	170	170	0%	C	0.063	Г	0.546	33000	G		
~~	From:			700/	407		00/	0.407	407	_	0.070	_		40000	_
[17]	I own of vvarrenton (Maint: 30)			70%	1%	2%	2%	24%	1%	C	0.078	F		12000	G
~	10:	NCL Warrent	on												
Bus Bus Bus	From:														
(17) (15) (29) James Madison Hwy	Town of Warrenton	***************************************		98%	1%	1%	0%	1%	0%	N	0.102	N	0.591	11000	N
\ \ \ \ \ \ \	To:														
Bus Bus 17 (29 (East Shirley Ave	Town of Warrenton			07%	10/.	10/	00/	00/	00/	C	0 000	F	0.544	15000	G
(17) (29) East Shirley Ave	TOWITOR VV affection	0.80 13000	<u> </u>	3170	170	1 70	U /0	U /0	070	C	0.000	r	0.344	46000 11000 4700 6400 7100 6400 7400	G
Bus Bus	To: From:	Culpeper St			-										
17) (29) West Shirley Ave	Town of Warrenton	0.80 20000	G	97%	1%	1%	0%	0%	0%	С	0.083	F	0.507	21000	G
(1) (23)	T-1									-					
Bus Bus	From:	Bus US 211 Wate	rioo St												
(17) (29) (211) Broadview Ave	Town of Warrenton	0.86 34000	G	98%	1%	1%	0%	0%	0%	С	0.081	F	0.594	36000	G
	To:	D 110 20 1	N 98% 1% 1% 0% 1% 0% N 0.102 N 0.591 0 0 0 0 0 0 0 0 0												

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Virginia Department of Transportation Traffic Engineering Division

2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

		Town or warrenion				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		
Broadview Ave	Town of Warrenton	0.57 11000 G	98%	1%	1%	0%	0%	0%	С	0.094	F	0.633	12000	G
	То:	NCL Warrenton												
	From:	SCL Warrenton												
29 (15) Eastern Bypass	Town of Warrenton (Maint: 30)	0.26 46000 G	91%	1%	1%	1%	6%	0%	F	0.074	F	0.599	46000	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	0.591	11000	Ν
\bigcirc	To:	BUS US 17 Shirley Ave												
Bus Bus 29 17 East Shirley Ave	Town of Warrenton	BUS US 15 0.96 13000 G	97%	1%	 1%	0%	0%	0%	С	0.088	F	0.544	15000	G
29 17 East Shirley Ave	Town or Warrenton	0.90 13000 G	31 70	1 70	1 70	070	070	076	C	0.000	'	0.633 12000 0.599 46000 0.591 11000 0.594 15000 0.594 36000 0.594 36000 0.548 33000 0.548 33000 0.547 24000 0.594 36000 0.594 36000 0.594 36000 0.594 36000 0.594 36000 0.594 36000	13000	J
Bus Bus	To: From:	Culpeper St												
(29) (17) West Shirley Ave	Town of Warrenton	0.80 20000 G	97%	1%	1%	0%	0%	0%	С	0.083	F	0.507	21000	G
\bigcirc	To:	US 17, US 211											12000 46000 11000 15000 21000 36000 31000 36000 31000 7900 6900 6400	
Bus Bus	Town of Warrenton		98%	10/	10/	0%	0%	0%	С	0.001	F	0.504	26000	G
29 17 211 Broadview Ave	rown or warrenton	0.86 34000 G	96%	1%	1%	0%	0%	0%	C	0.081	Г	0.594	36000	G
Bus	To: From:	Bus US 17 Broadview Av	e											
29 211 Lee Highway	Town of Warrenton	0.55 29000 G	98%	1%	1%	0%	1%	0%	С	0.078	F	0.556	31000	G
\bigcirc	То:	Bus US 15 Blackwell Rd												
Bus Bus	From:	BUS US 15	070/	40/	40/	40/	40/	00/	_	0.000	_	0.540	22000	_
29 15 Lee Highway	Town of Warrenton	0.59 30000 G NCL Warrenton	97%	1%	1%	1%	1%	0%	С	0.083	F	0.546	33000	G
					_									
211 Frost Ave	Town of Warrenton	WCL Warrenton 0.48 22000 G	97%	1%	1%	0%	0%	0%	С	0.086	F	0.647	24000	G
211 Flost Ave	Town or Warrenton	Bus US 17; Bus US 29	9170	170	176	0%	0%	0%	C	0.000	Г	0.047	24000	G
Bus Bus	From:	Shirley Ave; Bus US 17												
211 (17) (29) Broadview Ave	Town of Warrenton	0.86 34000 G	98%	1%	1%	0%	0%	0%	С	0.081	F	0.594	36000	G
~~~~	Tax	Bus US 17 Broadview Av	e.											
Bus	From:			40/	40/	00/	40/	00/	_	0.070	F	0.550	04000	_
211 29 Lee Highway	Town of Warrenton	0.55 <b>29000 G</b> Bus US 15 Blackwell Rd	98%	1%	1%	0%	1%	0%	С	0.078	F	0.556	31000	G
	Earl													
Bus 211 Waterloo St	Town of Warrenton	Broadview Ave 0.62 <b>7300 G</b>	98%	1%	10/	00/	00/	0%	С	0.095	F	0.600	7000	G
211 Waterioo St	Town or Warrenton		90%	170	1%	0%	0%	0%	C	0.095	Г	0.000	7900	G
Bus	To: From:	Diagonal St												
211 Waterloo St	Town of Warrenton	0.10 <b>6300 G</b>	98%	1%	1%	0%	0%	0%	F	0.101	F	0.532	6900	G
<del>\</del>	To:	US 15 Bus												
Bus Bus	From:	Bus US 15	0001	40/	40/	00/	00/	00/		0.005		0.507	0.400	
211 (15) Main St	Town of Warrenton	0.01 <b>5900 N</b>	98%	1%	1%	0%	0%	0%	N	0.095	N	0.527	6400	N
Bus Bus	From:	Alexandria Pike Main St												
211 (15) Alexandria Pike	Town of Warrenton	0.24 <b>6900 G</b>	99%	0%	1%	0%	0%	0%	С	0.106	F	0.524	7400	G
211)(13)	To:	King St			i i	- / -			-					-

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#### Virginia Department of Transportation Traffic Engineering Division

### 2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route	Jurisdiction	Length AAD	QA	4Tire	Bus	2Axle	Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW
Bus Bus (211) 15 Alexandria St	From:	King S													
	Town of Warrenton	0.21 <b>7300</b>	G	98%	0%	1%	0%	0%	0%	F	0.103	F	0.512	7900	G
	To:	To: Blackwell Rd													
Bus Bus (211) (15) Blackwell Rd	From:	Alexandria	Pike												
	Town of Warrenton	0.58 <b>7500</b>	G	98%	0%	1%	0%	0%	0%	С	0.102	F	0.515	8100	G
	To:	US 29 BUS US 211 Lee Hwy													

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# Virginia Department of Transportation Traffic Engineering Division 2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

						Town of Warre	enton								
Route	Length	AADT	QA	4Tire	Bus	T			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warrenton															
1541	0.04	NA From				CL Warrento	n			NA			NA		
		To From	:			30-1542									
1541	0.17	NA To				0.1.1.0				NA			NA		
		From	] .i			Cul-de-Sac									
1542	0.28	NA				Cul-de-Sac				NA			NA		
		To From				30-1541									
1542	0.14	NA To				Cul-de-Sac				NA			NA		
		From								<u>_</u>					
4542)	0.04	NA	<u> </u>			Warrenton C	L			NA			NA		
1543	0.01	To	:			30-1542				<b>—</b>			1471		
		From	:			Blackwell Ro	1								
2 Alexandria Pike	0.58	250	G	95%	2%	2% 0%	1%	0%	С	0.119	F	0.611	270	G	2009
		То				Dead End									
_		From	:			Broadview Av	ve								
3 Oak Springs Dr	0.26	3100	G	99%	0%	0% 0%	0%	0%	С	0.093	F	0.519	3300	G	2009
<u> </u>		To				Branch Dr									
O Burnel Bu	0.40	From	<u> </u>	000/	00/	Lee Highway		00/			_	0.500	F 400	0	0000
4 Branch Dr	0.19	5000 To	G	98%	0%	1% 0% Oak Springs I	0%	0%	С	0.103	F	0.508	5400	G	2009
		From	] .I												
880) Bear Wallow Rd	0.49	4300	G	98%	1%	WCL Warrent	on 0%	0%	С	0.092	F	0.709	4700	G	2009
Bear Wallow Rd	0.43	<b>4300</b> To	<u> </u>	3070	1 /0	Broadview Av		070		0.032	•	0.700	4700	G G	2003
		From	:			WCL Warrent									
886) Waterloo Rd	0.58	3500	G	98%	0%	1% 0%	0%	0%	С	0.130	F	0.746	3800	0 G	2009
900)		To	:			Rappahannock	St								
O 5		From	<u> </u>	2221		Waterloo Ro									
886) Rappahannock St	0.03	1900 _{To}	G	98%	0%	1% 0%	0%	0%	F	0.123	F	0.923	2100	G	2009
		From				US 211 Frost A									
893) Old Meetze Rd	0.37	440	G	94%	2%	Falmouth St 2% 0%	1%	0%	С	0.124	F	0.633	480	G	2009
693) GIG MIGGIZO 11G	0.01	То	:	0170		Dead End	170	070			·	0.000	100	Ū	2000
		From				Alexandria S	t								
1893) Winchester St	0.42	3600	G	99%	0%	1% 0%	0%	0%	С	0.092	F	0.604	3900	G	2009
		To	-			King St									
1893) Winchester St	0.69	4200 From	G	99%	0%	1% 0%	0%	0%	С	0.093	F	0.595	4600	G G G G G G G G G G G G G G G G G G G	2009
		То				Lee Highway	/								
		From	:			Shirley Ave									
1894) Culpeper St	0.38	2700	G	99%	0%	1% 0%	0%	0%	С	0.104	F	0.715	3000	G	2009
		To From				Hotel St									
1894) Culpeper St	0.04	1500	G	99%	0%	1% 0%	0%	0%	F	0.095	F		1600	G	2009
		То	•			Main St									
O 0115 11 1		From				US 15					_				
Old Broadview Ave	0.17	5400 _{то}	G	99%	0%	1% 0%	0%	0%	С	0.091	F	0.528	5900	G	2009
_			<u>                                     </u>			US 17									
Branch Dr		4400	G			Lee Highway	/			0.094	F	0.508	4800	C-	2009
Dianoli Di		4400 To				Arbor Ct				0.034	1	0.500	7000	J	2003
		From	1			SCL Warrento	on			1					
Culpeper St		5400	G	98%	1%	1% 0%	0%	0%	С	NA			5400	G	2009
· ·		То				Fisher Ln									
		From	·			Falmouth St									
East St		150	G							0.109	F	0.821	160	G	2009
		To	:			Meetze Rd									

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# Virginia Department of Transportation Traffic Engineering Division 2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route	Longth	AADT	04	4Tiro	Duo		Tru	ıck		QC	K	QK r	Dir	AAWDT	01/1/	Veer
Route	Length	AADT	QA	4Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor		Factor	AAWDI	QW	Year
Town of Warrenton			ā								_					
		From	:			Bu	s US 29									
Fletcher Dr		1600	G	98%	1%	1%	0%	0%	0%	С	NA			1600	G	2009
		To				Oak	Springs Dr									
		From				Bear	Wallow Dr									
Foxcroft Rd		1600	G	99%	1%	1%	0%	0%	0%	С	NA			1600	G	2009
		To	:			Fau	quier Rd									
		From					3rd St									
Lee St		4100	G	97%	1%	1%	0%	1%	0%	С	NA			4100	G	2009
		To	:				4th St									
		From				Fal	mouth St									
Meetze Rd		10000	G	98%	1%	1%	0%	0%	0%	С	NA			10000	G	2009
		To	:			I	East St									

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