### 2010

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

where available

# Special Locality Report 294

Town of Saint Paul

Information in this report is included in Report

97

(Wise 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 Route								
(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.

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus		Tru 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
ALT	From:	W	CL Saint Pa	aul												
(58) Bull Run Rd	Town of Saint Paul (Maint: 97)	0.30	9000	N	95%	0%	1%	2%	3%	0%	Ν	0.093	N	0.655	9800	N
ALT.	To: From:	SI	R 63 Wise S	St			$\neg$ $\vdash$									
ALT (58) Bull Run Rd	Town of Saint Paul (Maint: 97)	0.48	9800	G	95%	0%	1%	2%	3%	0%	F	0.092	F	0.623	11000	G
<u> </u>	To:	Russ	ell County	Line												
-	From:	1	ALT US 58	3												
63) Wise St	Town of Saint Paul (Maint: 97)	1.46	5600	G	92%	0%	1%	5%	2%	0%	F	0.085	F	0.553	5800	G
	То:	NO	CL Saint Pa	ıul												
	From:		US 58 Bus													
(270) Bull Run Rd	Town of Saint Paul (Maint: 97)	0.26	4300	G	99%	0%	1%	0%	0%	0%	С	0.091	F	0.541	4700	G
	To:		SR 63													

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Length	AADT	QA	4Tire	Bus		Truck 3+Axle 1Tra		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
	From				Des	d End			1					
0.58	310	R			Dea	d Elid			NA			NA		01/11/2006
	To				CL S	St Paul								
	From	<u> </u>			Dea	d End			]					
0.05	120	R							NA 			NA		01/11/2006
0.11	From	<u> </u>			0.05 MS	Dead End						NIA.		04/44/2004
0.11	33U To	K			83-640 Sc	outh St Paul						INA		01/11/2006
	From								1					
0.28	730	R							NA			NA		10/04/200
	To	-			83	-884			Т—					
0.08	730	R							NA			NA		10/04/200
	To				83-	1301								
0.00					83-640 Sc	outh St Paul			٦.,					40/04/000
0.06		_			Dar	d End			NA T			NA		10/04/2002
	From													
0.04	610	R				-700			NA			NA		10/04/200
	To				83-130	SOUTH								
0.03	610 From	R			03 130	1500111			NA			NA		10/04/2002
	To				83-1301	NORTH								
0.05	740 From	R			05 150	TIORITI			NA			NA		10/04/2002
	To				US 58 AI	T NORTH								
	From				83	-760								
0.18	210	R							NA			NA		10/04/2002
	To From				0.18 M	E 83-760			_					
0.38	340	R							NA			NA		10/04/2002
	To From				83-	1302			]—					
0.02	530	R							NA			NA		10/04/2002
	From				Y Inte	rsection			<u> </u>					
0.02	530 To	R			92 911	COLUTI			NA T			NA		10/04/2002
	From													
0.02	640	R							NA			NA		10/04/2002
0.03					83-	1301			NIA.			NΙΔ		10/04/2002
0.03	100								- INA			INA		10/04/2002
0.28	From				Begi	n Loop			NIA			NΛ		10/04/2002
0.20	To				End	Loop						INA		10/04/2002
	From								İ					
0.02	650	R							NA			NA		05/17/2007
	To				SR 63	SOUTH								
	From				SR 63	; SR 270								
0.14	2300	R							NA			NA		05/21/2007
	From	Ę			97-1209	Γazewell St			<u> </u>					05/04/222
0.07	2000 ™	R			97 1210 F	lickenson St			NA T			NA		05/21/2007
	From	-							_ <u></u>					
0.07		R			91-1205	Russell of			NA			NA		03/22/2007
	To	_			97 1204	5 Broad St								.=
	From	<u> </u>			27-1200	DIVAU DI			NA			NA		03/22/2007
0.45	1300	ĸ							1 4/ 1			INA		03/22/2007
0.45	1300 <sub>то</sub>	R			97-121	4 Lee St			¬—					03/22/2001
0.45	1300 From 560	R			97-121	4 Lee St			NA			NA NA		03/22/2007
	0.58  0.05  0.11  0.28  0.08  0.06  0.04  0.03  0.05  0.18  0.38  0.02  0.02  0.02  0.02  0.03  0.28	0.58 310 To  From  0.05 120  0.11 330 To  0.28 730  0.08 730 To  0.08 770 To  0.04 610  0.03 610  0.05 740 To   0.58 310 R Tro	0.58 310 R    Troit	0.58 310 R  Tro    O.05   120 R   O.11   330 R   O.28   730 R   O.08   730 R   O.08   70 R   O.04   610 R   O.05   740 R   O.05   740 R   O.05   740 R   O.05   740 R   O.08   750 R   O.09   530 R   O.00   530 R   O.01   640 R   O.02   640 R   O.03   640 R   O.04   640 R   O.05   740 R   O.06   750 R   O.07   0.08   750 R   O.08   0.09 R   O.09   0.09 R   O.000   0.00 R   O.001   0.000 R   O.002   0.000 R   O.003   0.000 R   O.000   0.000	Dea	Dead End   Dead End	Dead End   Dead End	Dead End   Dead End   Dead End	Dead End   NA   NA   NA   NA   NA   NA   NA   N	Deal End   State   S	Deal End	Dead Fand	Dead Find	

Route	Length	AADT	QA	4Tire	Bus		Truck		K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Saint Paul		Fron	,i						-					
(1203) 5th Ave	0.14	870	R			9/-12	205 Russell St		NA			NA		03/22/2007
		Fron					SR 63							
1203 5th Ave	0.07	470	R						NA			NA		05/21/2007
<u> </u>	0.02	20 From	R			97-120	08 Buchanan St		NA			NA		05/21/2007
(1203) 5th Ave	0.02	<b>20</b>				]	Dead End		INA			INA		03/21/2007
		From	:				206 Broad St							
1204 Sixth Ave	0.14	140	R						NA			NA		03/22/2007
Sixth Ave	0.04	90 From	R			97-120	08 Buchanan St		NA			NA		05/21/2007
(1204) Sixth Ave	0.04	т				]	Dead End					INA		03/21/2007
		From	:				202 Third Ave		Ì					
(1205) Russell St	0.07	1700	R						NA			NA		03/22/2007
		From					SR 270		$\Box$					
1205 Russell St	0.07	1400	R						NA			NA		03/22/2007
		From				97-1	1203 5th Ave							
(1205) Russell St	0.02	<b>30</b>	R			,	Dead End		NA			NA		03/22/2007
		Fron							1					
1206 Broad St	0.16	2100	R			97-12	202 Third Ave		NA			NA		03/22/2007
97		Т				97-1	1203 5th Ave							
1206 Broad St	0.08	150 From	R			,,,	200 0411110		NA			NA		03/22/2007
97		Т	:			97-12	204 Sixth Ave							
<u> </u>		From					Dead End							
1208 Buchanan St	0.23	860	R						NA 			NA		05/21/2007
O Bushaus Ot	0.00	From				97-12	204 Sixth Ave					NIA		05/04/0007
Buchanan St 97	0.02	<b>10</b>	R				Dead End		NA			NA		05/21/2007
		Fron	:				Dead End							
(1209) Tazewell St	0.03	550	R				Detta Ena		NA			NA		05/26/2007
97			_			97-12	201 Deacon Rd							
(1209) Tazewell St	0.02	800 From	R						NA			NA		05/21/2007
97)		Т	:			]	Dead End							
		Fron				97-12	201 Deacon Rd		<u> </u>					
1210 Dickenson St	0.06	<b>20</b>	R			,	Dead End		NA			NA		05/21/2007
		Fron	_				SR 270							
(1211)	0.13	45	R				SK 270		NA			NA		03/20/2007
(1211)		Т				Ole	d Alt US 58							
		Fron				Ole	d US 58 Alt							
(1212) Riverside Dr	0.05	1300	R						NA			NA		03/22/2007
		Ti					Dead End							
(1213) Second Ave	0.16	90	R			]	Dead End		NA			NA		03/22/2007
Second Ave	0.10	<b>30</b>				97-12	202 Third Ave					11/7		30,22,2001
		From					202 Third Ave							
(1214) Lee St	0.13	510	R						NA			NA		03/20/2007
		Fron				97-12	217 Sunset Dr	 						
(1214) Lee St	0.18	150	R						NA			NA		03/20/2007
		To From	-			97-122	23 Longview Dr							
(1214) Longview Dr	0.50	380 T	R				CD (2		NA			NA		03/20/2007
		10	1				SR 63							

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Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Saint Paul						ZAXIE	STAXIC	TTTAII	ZIIali		racioi		racioi			
		From	:			97-121	3 Second A	ve								
(1215)	0.03	NA To	_			_					NA			NA		
							ead End				4					
	0.05	From 5	 R			D	ead End				NA			NA		03/22/200
(1216) 97	0.05	o To				Old	Alt US 58							INA		03/22/200
		From	:				214 Lee St									
1217) Sunset Dr	0.24	290	R			<i>)</i> /-1	214 Lee St				NA			NA		03/20/200
Sunset Dr		To	_			NCL	Saint Paul									
		From	:			97-1	214 Lee St									
1218 Summit Dr	0.25	90	R								NA			NA		03/22/200
97)		To	:			97-12	17 Sunset D	r								
Summit Dr		From	:			97-121	8 Summit I	)r								
	0.07	190	R								NA			NA		03/22/200
		То	:			97-12	17 Sunset D	r								
O		From				97-1	214 Lee St									
1220 Nevada Place	0.15	120	R			.=					NA			NA		03/20/200
		То	1				3 Longview									
(1221) Kilbourne Dr	0.03	30	R			97-121	8 Summit I	Or			NA			NA		02/22/200
(1221) Kilbourne Dr	0.03	3 <b>U</b>				D	ead End							INA		03/22/200
		From									1					
1222) Highland Dr	0.30	120	R			97-120	02 Third Av	e			NA			NA		03/22/200
Highland Dr	0.50	To				97-1220	) Nevada Pla	ace			Ti.			10.		00/22/200
		From	:		9′		ngview Dr;				i					
Longview Dr	0.16	130	R								NA			NA		03/20/200
97		To	-			97-1222	2 Highland	Dr								
		From				A	lt US 58									
Johnnie Ramey Dr	0.31	1700	R								NA			NA		03/22/200
97)		То	c				SR 63									
$\widehat{}$		From				D	ead End									
(1225)	0.28	2500	R								NA			NA		03/22/200
<u> </u>		То					2 Riverside	Dr								
		From				Ct	ıl-de-Sac									00/00/07
1226 Fletcher Dr	0.15	140 To	R			05.161					NA			NA		03/20/2007
		To	1			97-1214	Longview	Dr								

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