2009

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

where available

Special Locality Report 321

Town of Warsaw

Information in this report is included in Report

79

(Richmond 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 Warsaw

Route	Jurisdiction	Length AADT C	QA 47	Γire Bu		Tru	ıck		QC	K	QK	Dir	AAWDT	OW
rtouto	Cancaloner	2011gtil 78121			2Axl	e 3+Axle	1Trail	2Trail	Q.O	Factor	٠.٠	Factor	7011121	٠
_	From:	NCL Warsaw												
(3) Historyland Hwy	Town of Warsaw (Maint: 79)	0.20 6000 I	N 92	2% 1%	1%	1%	5%	0%	Ν	0.087	Ν	0.554	6500	N
	To:	Bus SR 3 Main St												
	From:	US 360, SR 3 Bus Richmo	ond Rd											<u></u>
(₃) Historyland Hwy	Town of Warsaw (Maint: 79)	0.11 7500	G 94	1 % 1 %	1%	1%	3%	0%	F	0.105	F	0.586	8100	G
	To:	SCL Warsaw												
Bus	From:	SR 3 Historyland Hw	/V											
3 Main St	Town of Warsaw (Maint: 79)	*	_	5% 0%	1%	1%	3%	0%	Ν	0.093	Ν	0.584	13000	N
	To:	US 360 Richmond R	d											
Bus	From:	US 360; Main St												<u></u>
3 (360) Richmond Rd	Town of Warsaw (Maint: 79)	0.78 12000	G 9	5% 0%	1%	1%	3%	0%	F	0.093	F	0.584	13000	G
	To:	SR 3 Historyland Hw	/у											
-	From	WCL Warsaw												
(360) Richmond Rd	Town of Warsaw (Maint: 79)	2.02 13000	N 9	5% 0%	1%	1%	3%	0%	Ν	0.1	Ν	0.552	14000	Ν
<u> </u>	To:	W SR 3 Bus												
Bus	From:		•	-0/ 00/	40/	407	00/	00/	_	0.000	_	0.504	10000	•
(360) (3) Richmond Rd	Town of Warsaw (Maint: 79)	0.78 12000 (G 9	5% 0%	1%	1%	3%	0%	F	0.093	F	0.584	13000	G
	To: From:	E SR 3 Bus, SR 3												
(360) Richmond Rd	Town of Warsaw (Maint: 79)	0.37 7700	G 9	5% 0%	1%	1%	3%	0%	F	0.092	F	0.601	8300	G
<u> </u>	To:	ECL Warsaw												

6/12/2010 7

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

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Route	Length	AADT	QA	4Tire	Bus		Truck 3+Axle 1Tra		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warsaw		From	:1			SCLV	Varsaw								
624	0.10	90	N			SCL	vaisaw			NA			NA		05/24/200
99.7		To				US 360 E, I	Richmond Rd								
<u> </u>		From				US 360 W, 1	Richmond Rd								
649 Meadowbrook Rd	0.26	220	R			***				NA			NA		05/14/200
		10	1				Richmond Rd								
(690) Menokin Rd	0.20	From 820	G	98%	0%	1%	3 Bus 0% 1%	0%	F	0.111	F	0.540	890	G	2009
(690) Menokin Rd	0.20	To		3070	070		Warsaw	0 70			'	0.540	030	O	2003
		From				US 360 Ri	chmond Rd								
700 Selftown Rd	0.13	700	R							NA			NA		05/14/20
(rg)		To				NCL V	Warsaw								
		From				Sl	R 3								
1000 Harris Ave	0.25	70	R			Cv1	la Caa			NA			NA		05/14/200
		From] :I				de-Sac			<u> </u>					
1001 Hamilton Blvd	0.75	410	G	96%	0%	US 360 Ri 2%	chmond Rd 1% 0%	0%	С	0.131	F	0.597	450	G	2009
(1001) Hamilton Blvd		To		30 /0			SR 3			301		0.001			
		From					R 3				_				
1002 Belleville Lane	0.23	310	R							NA			NA		05/02/20
(19)		To				79-1001 Ha	milton Blvd								
O		From				Sl	R 3								
1003 St Johns St	0.23	1000	R			110 2 co D:	1 101			NA			NA		05/02/20
		From	1				chmond Rd								
<u> </u>			R		US	S 360 Richmo	ond Rd; Bus SR	1.3		 NA			NA		05/14/20
Court Circle	0.17	J20 T-											INA		03/14/20
1004) Court Circle	0.13	310 From	R			79-1036 0	Campus Dr			NA			NA		09/11/20
Court Circle	0.13	То				End	Loop						IVA		03/11/20
		From	:				unset Lane								
1005 Lakeside Dr	0.18	30	R							NA			NA		06/06/20
<u>/9</u> /		To					idgeway Rd								
1005) Lakeside Dr	0.17	100	R			79-1006 F	Rideway Rd			 NA			NA		06/07/20
Lakeside Dr	0.17	To				70 1020	Y Y						147.		00/01/20
1995 Lakeside Dr	0.08	80 From	R			79-1020	Ivy Lane			NA			NA		06/07/20
1005 Lakeside Dr	0.00	То	ı``			79-690 M	lenokin Rd			— ` ``			147.		00/01/20
		From	:				Sunset Lane								
1006 Ridgeway Rd	0.08	240	R							NA			NA		05/14/20
79)		To From	-			79-1005 L	akeside Dr			<u> </u>					
1006 Ridgeway Rd	0.10	410 From	R							NA			NA		05/14/20
79)		То	:			Sl	R 3								
$\overline{}$		From				US 360 Ri	chmond Rd								
1007 Sabine Hall Rd	0.13	820 To	R			D	15.1			NA			NA		05/14/20
] 				d End								
1008) Pine St	0.19	120	R			US 360 Ri	chmond Rd			 NA			NA		05/02/20
1008) Pine St	0.13	To				79-1002 Be	lleville Lane						INA		03/02/20
		From	:				Level Blvd			j					
1009 Washington Ave	0.09	200	R				**			NA			NA		06/09/20
(⁹)		To	-			79-1014	SOUTH			<u> </u>					
1009 Washington Ave	0.02	230 From	R			,, 1014				NA			NA		06/09/20
(1009) Washington Ave		To	-			79-1014	NORTH								
1009 Washington Ave	0.06	240 From	R			7,71014				NA			NA		06/09/20
(1009) Washington Ave		To	:			79-1010	SOUTH								

6/12/2010 8

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

Route	Length	AADT	QA	4Tire	Bus			Truck Axle 1Tra		()(:	K actor	QK	Dir Factor	AAV	VDT	QW	Year
Town of Warsaw		From					0-1010 SC					1						
1009 Washington Ave	0.03	280	R			19	-1010 50	<i>э</i> отн			ı	NA			٨	IA		06/09/2004
<u> </u>	0.05	330 From	R			79	-1010 N	ORTH				NA				IA		05/14/2007
(1009) Washington Ave	0.05	33U To	K			US 3	360 Richi	mond Rd				NA I			IN	IA.		05/14/2007
		From					WCL Wa											
1010	0.06	30	R									NA			٨	IA		06/09/2004
1010	0.09	150	R			79-10	011 Mad	ison Ave				NA				IA		06/09/2004
79		To						ngton Ave				<u> </u>						
	0.14	30 From	R			79-1009	S, Wash	nington Ave	:			I NA			N	ΙA		06/07/2004
1010)	0.14	To				79-1	018 Men	norial Dr				ľ			11	•/~		00/01/200-
		From					79-101											
Madison Ave	0.09	70	R									NA			Ν	IΑ		06/09/2004
79)		To					79-101	10										
		From					Dead E	nd										00/07/000
1012 Sunset Lane	0.11	170	R									NA			N	IA		06/07/2004
<u> </u>	0.00	From				79-1	1005 Lake	eside Dr				<u> </u>						00/07/000
Sunset Lane	0.08	160	R									NA -			N	IA		06/07/2004
0	0.00	From	Ļ			79-10	006 Ridg	eway Rd				 						00/07/000
Sunset Lane	0.28	80 To	R				Dead E	'nd				NA I			N	IA		06/07/2004
		From				IIC 3		mond Rd				l						
Jones Lane	0.18	410	R			033	OU KICIII	nona Ku				NA NA			N	IΑ		05/14/200
Jones Lane		To					Dead E	nd										
		From				7	WCL Wa	rsaw										
1014	0.04	20	R									NA			Ν	IΑ		06/09/2004
-		To From				79-10	011 Mad	ison Ave				 						
1014	0.09	20	R								ļ	NA			Ν	IΑ		06/09/2004
		To From				79-100	09 Washi	ngton Ave				}						
1014	0.15	40	R									NA			Ν	IΑ		06/07/2004
		To	<u> </u>			79-1	018 Men	norial Dr										
○ \\\\ - \\\ - \\\\ - \\\\ - \\\\\ - \\\\\ \\\\\ - \\\\\\	0.00	From	Ļ				Cul-de-	Sac										05/44/000
1015 Wallace St	0.23	120	R									NA			IN	IA		05/14/2007
Welless Ct	0.22	From	<u> </u>			0.23	MN Cu	l-de-Sac				<u> </u>				1.0		05/44/2007
1015 Wallace St	0.33	450	R								l	NA			IN	IA		05/14/2007
1015) Wallace St	0.09	800 From	R			79-1	1036 Can	npus Dr				NA				IA		05/14/2007
1015 Wallace St	0.09	To	<u> </u>			US 3	360 Richi	mond Rd				I			IN.	iA		03/14/2007
		From						Iorgan Lane				<u> </u>						
Morgan Lane	0.41	370	R			,, 101,		rorgan zane				NA			Ν	IΑ		05/07/2004
79)		To				US 3	360 Richi	mond Rd										
		From					Dead E	and				İ						
1017 West Morgan Lane	0.04	40	R								I	NΑ			Ν	IΑ		06/07/2004
		To From				79-1	016 Mor	gan Lane				}						
West Morgan Lane	0.07	150	R								I	NA			N	IA		06/07/2004
		To From				79-	1023 Qua	ail Trail				}						
1017 West Morgan Lane	0.10	60	R									NA			Ν	IA		06/07/2004
		To					Dead E	nd										
Mamarial D	0.05	From	Ļ			;	SCL Wa	rsaw					_			1.0	· <u> </u>	00/07/000
Memorial Dr	0.05	50	R									NA			N	IA		06/07/2004
	2.12	From					79-101	14				<u> </u>						00/07/005
1018 Memorial Dr	0.10	80	R									NA			1	IΑ		06/07/2004

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

								varsaw								
Route	Length	AADT	QA	4Tire	Bus			Truck Axle 1Tı		QC	K Factor	QK	Dir Factor	AAWD ⁻	T QW	Year
Town of Warsaw		From					79-10	10								
1018 Memorial Dr	0.08	110	R				79-10	10			NA			NA		06/07/200
79		То				79-649	Meado	wbrook Rd								
^		From				US 3	60 Rich	mond Rd								
1019 Gordon Lane	0.15	40	R				- ·				NA			NA		06/07/200
		From	<u> </u>			70.1	Dead I				<u> </u>					
1020) Ivy Lane	0.12	30	R			/9-1	005 Lak	eside Dr			NA			NA		06/07/200
(1020) Ivy Lane	02	То				N	NCL Wa	arsaw								00/01/200
		From				79-	1022 W	alnut St								
1021 Maple St	0.15	590	R								NA			NA		05/24/200
		To				US 3	60 Rich	mond Rd								
Malaut Ct	0.40	From	ᆫ				SR 3	3						NIA		05/04/00/
Walnut St	0.18	1200	R								NA —			NA		05/24/200
Walnut Ct	0.04	From	<u> </u>			79-	-1021 M	Iaple St						NIA		05/04/00/
Walnut St	0.04	1200 To	R				Dead I	End			NA T			NA		05/24/200
		From					Dead I									
1023) Quail Trail	0.16	70	R				Deua	Jild .			NA			NA		06/07/200
Quail Trail		To				79-1017	West N	Aorgan Lan	e							
		From					Dead I	End								
1027 Sturman Lane	0.15	70	R								NA			NA		06/07/200
<u> </u>		10						wbrook Rd								
1028) Level Blvd	0.13	From 160	R			79-1	029 Geo	orgia Ave			 NA			NA		06/09/200
1 ₀₂₈ Level Blvd	0.13	100	<u> </u>											INA		00/03/200
1028) Level Blvd	0.02	30 From	R			79-100	9 Wash	ington Ave			NA			NA		06/09/200
1028 Level Blvd	0.02	To					Dead I	End						IVA		00/03/200
		From				US 3		mond Rd								
1033) Lee Ave	0.17	150	R								NA			NA		06/07/20
79)		To From						son Court								
1033) Lee Ave	0.09	60	R			79-10	J34 Jack	con Court			NA			NA		06/07/200
(1033) Lee Ave	0.00	To					Dead I	End								00/01/20
		From				79	-1033 L	ee Ave								
Jackson Court	0.05	40	R								NA			NA		06/07/200
(19)		То					Cul-de-	-Sac								
O 0 11 A	0.07	From	Ļ_			US 3	60 Rich	mond Rd								05/4.4/00/
1035 College Ave	0.07	470	R								NA 			NA		05/14/200
Callaga Ava	0.00	From	<u> </u>			79-1	037 Atk	inson Dr						NIA		05/4/4/00/
1035 College Ave	0.22	310	R								NA —			NA		05/14/200
1035) College Ave	0.04	From Prom				79-10	38 Free	dom Way			NA			NA		05/14/200
1035 College Ave	0.04	20 To	R				Dead I	End						INA		03/14/200
		From				79-1		art Circle								
1036 Campus Dr	0.04	260	R			,,,,	001 000	art circic			NA			NA		06/07/200
79		To				79-1	1015 Wa	allace St								
		From				79-1	035 Col	lege Ave								
1037 Atkinson Dr	0.18	140	R								NA			NA		06/07/200
		To From			0	.18 MN	79-1035	5 College A	ve		\Box					
1037 Atkinson Dr	0.02	40	R								NA			NA		06/07/200
		To	<u> </u>				Dead I									
1038) Freedom Way	0.46	From	R				Cul-de-	-Sac			NIA			NA		06/07/200
1038 Freedom Way	0.16	170	· ·			70.1	025 Cal	lege Ave			NA			INA		00/01/200

6/12/2010 10

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

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Town	Ωf	W/a	rsaw

Route Town of Warsaw	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail 2T	O.C	K Factor	QK	Dir Factor	AAWDT	QW	Year
1038 Freedom Way	0.05	30 To	R			79-1035 College Ave Cul-de-Sac		NA			NA		06/07/2004

6/12/2010 11