2004
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
321

Town of Warsaw

Prepared By

Virginia Department of Transportation
Mobility Management Division

In Cooperation With

U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management 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 at VDOT Mobility Management's 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's Mobility Management 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 Peak Hour 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 Peak Hour 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

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

Secondary Route

Special Routes

Bus - Business Route
Bypas - 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 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
Mobility Management Division
2004
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Warsaw

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From: NCL Warsaw															
3	Town of Warsaw (Maint: 79)	0.20	**6300**	**N**	93%	1%	1%	2%	4%	0%	N	0.079	N	0.571	6500	N
	To: SR 3 Bus															
	From: US 360, SR 3 Bus															
3 History Land Hwy	Town of Warsaw (Maint: 79)	0.11	**7200**	**F**	90%	1%	3%	1%	5%	0%	F	0.09	F	0.560	7400	F
	To: SCL Warsaw															
	From: SR 3															
Bus 3	Town of Warsaw (Maint: 79)	0.77	**13000**	**N**	95%	0%	1%	1%	2%	0%	N	0.085	N	0.62	13000	N
	To: US 360 Richmond Rd															
	From: US 360															
Bus 3 360 Richmond Rd	Town of Warsaw (Maint: 79)	0.78	**13000**	**F**	95%	0%	1%	1%	2%	0%	F	0.085	F	0.62	13000	F
	To: SR 3															
	From: WCL Warsaw															
360 Richmond Rd	Town of Warsaw (Maint: 79)	2.02	**14000**	**N**	95%	0%	1%	1%	2%	0%	N	0.096	N	0.584	14000	N
	To: W SR 3 Bus															
	From:															
Bus 360 3 Richmond Rd	Town of Warsaw (Maint: 79)	0.78	**13000**	**F**	95%	0%	1%	1%	2%	0%	F	0.085	F	0.62	13000	F
	To: E SR 3 Bus, SR 3															
	From:															
360 Richmond Rd	Town of Warsaw (Maint: 79)	0.37	**8200**	**F**	95%	0%	1%	1%	2%	0%	F	0.093	F	0.628	8500	F
	To: ECL Warsaw															

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Town of Warsaw																
624 79	0.10	**90**	**N**								NA			NA		05/24/2004
From: SCL Warsaw																
To: US 360 EAST																
649 79 Meadowbrook Rd	0.34	**180**	**R**								NA			NA		09/11/2001
From: US 360 WEST																
To: US 360 EAST																
690 79 Menokin Rd	0.20	**880**	**F**	98%	0%	1%	1%	1%	0%	F	0.1	F	0.569	910	F	2004
From: SR 3 Bus																
To: NCL Warsaw																
700 79 Selftown Rd	0.13	**190**	**R**								NA			NA		10/17/2001
From: US 360 Richmond Rd																
To: NCL Warsaw																
1000 79 Harris Ave	0.25	**40**	**R**								NA			NA		05/24/2004
From: SR 3																
To: Cul-de-Sac																
1001 79 Hamilton Blvd	0.75	**330**	**F**	96%	0%	1%	1%	2%	0%	C	0.092	F	0.576	340	F	2004
From: US 360 Richmond Rd																
To: Bus SR 3																
1002 79 Belleville Lane	0.23	**280**	**R**								NA			NA		09/26/2001
From: SR 3																
To: 79-1001 Hamilton Blvd																
1003 79 St Johns St	0.23	**1100**	**R**								NA			NA		09/11/2001
From: SR 3																
To: US 360 Richmond Rd																
1004 79 Court Circle	0.17	**300**	**R**								NA			NA		09/11/2001
From: US 360 Richmond Rd; Bus SR 3																
To: 79-1036 Campus Drive																
1004 79 Court Circle	0.13	**310**	**R**								NA			NA		09/11/2001
From: 79-1036																
To: End Loop																
1005 79 Lakeside Drive	0.18	**30**	**R**								NA			NA		06/06/2004
From: 79-1012																
To: 79-1006																
1005 79 Lakeside Drive	0.17	**100**	**R**								NA			NA		06/07/2004
From: 79-1006 Rideway Rd																
To: 79-1020 Ivy Lane																
1005 79 Lakeside Drive	0.08	**80**	**R**								NA			NA		06/07/2004
From: 79-1020 Ivy Lane																
To: 79-690 Menokin Rd																
1006 79 Ridgeway Rd	0.08	**310**	**R**								NA			NA		09/11/2001
From: 79-1012 Sunset Lane																
To: 79-1005 Lakeside Drive																
1006 79 Ridgeway Rd	0.10	**520**	**R**								NA			NA		09/11/2001
From: 79-1005 Lakeside Drive																
To: SR 3																
1007 79 Sabine Hall Rd	0.13	**1900**	**R**								NA			NA		09/11/2001
From: US 360 Richmond Rd																
To: Dead End																
1008 79 Pine St	0.19	**130**	**R**								NA			NA		09/26/2001
From: US 360 Richmond Rd																
To: 79-1002 Belleville Lane																
1009 79 Washington Ave	0.09	**200**	**R**								NA			NA		06/09/2004
From: 79-1028 Level Boulevard																
To: 79-1014 SOUTH																
1009 79 Washington Ave	0.02	**230**	**R**								NA			NA		06/09/2004
From: 79-1014 SOUTH																
To: 79-1014 NORTH																
1009 79 Washington Ave	0.06	**240**	**R**								NA			NA		06/09/2004
From: 79-1014 NORTH																
To: 79-1010 SOUTH																

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Town of Warsaw																
1009 79 Washington Ave	0.03	**280**	**R**	From: 79-1010 SOUTH To: 79-1010 NORTH							NA			NA		06/09/2004
1009 79 Washington Ave	0.05	**650**	**R**	From: 79-1010 NORTH To: US 360 Richmond Rd							NA			NA		09/11/2001
1010 79	0.06	**30**	**R**	From: WCL Warsaw To: 79-1011 Madison Ave							NA			NA		06/09/2004
1010 79	0.09	**150**	**R**	From: 79-1011 Madison Ave To: 79-1009 Washington Ave							NA			NA		06/09/2004
1010 79	0.14	**30**	**R**	From: 79-1009 SOUTH To: 79-1018							NA			NA		06/07/2004
1011 79 Madison Ave	0.09	**70**	**R**	From: 79-1014 To: 79-1010							NA			NA		06/09/2004
1012 79 Sunset Lane	0.11	**170**	**R**	From: Dead End To: 79-1005							NA			NA		06/07/2004
1012 79 Sunset Lane	0.08	**160**	**R**	From: 79-1005 To: 79-1006							NA			NA		06/07/2004
1012 79 Sunset Lane	0.28	**80**	**R**	From: 79-1006 Ridgeway Rd To: Dead End							NA			NA		06/07/2004
1013 79 Jones Lane	0.18	**150**	**R**	From: US 360 Richmond Rd To: Dead End							NA			NA		09/11/2001
1014 79	0.04	**20**	**R**	From: WCL Warsaw To: 79-1011							NA			NA		06/09/2004
1014 79	0.09	**20**	**R**	From: 79-1011 Madison Ave To: 79-1009							NA			NA		06/09/2004
1014 79	0.15	**40**	**R**	From: 79-1009 To: 79-1018							NA			NA		06/07/2004
1015 79 Wallace St	0.23	**100**	**R**	From: Cul-de-Sac To: 0.23 MN Cul-de-Sac							NA			NA		09/11/2001
1015 79 Wallace St	0.33	**280**	**R**	From: 79-1036 To: 79-1036							NA			NA		09/11/2001
1015 79 Wallace St	0.09	**870**	**R**	From: 79-1017 To: US 360 Richmond Rd							NA			NA		09/11/2001
1016 79 Morgan Lane	0.40	**370**	**R**	From: 79-1017 To: US 360 Richmond Rd							NA			NA		05/07/2004
1017 79 West Morgan Lane	0.04	**40**	**R**	From: Dead End To: 79-1016							NA			NA		06/07/2004
1017 79 West Morgan Lane	0.07	**150**	**R**	From: 79-1016 To: 79-1023							NA			NA		06/07/2004
1017 79 West Morgan Lane	0.10	**60**	**R**	From: 79-1023 To: Dead End							NA			NA		06/07/2004
1018 79 Memorial Drive	0.05	**50**	**R**	From: SCL Warsaw To: 79-1014							NA			NA		06/07/2004

Route	Length	AADT	QA	4Tire	Bus	Truck: 2Axle	Truck: 3+Axle	Truck: 1Trail	Truck: 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warsaw																
1018 79 Memorial Drive	0.10	**80**	**R**	From: 79-1014							NA			NA		06/07/2004
				To: 79-1010												
1018 79 Memorial Drive	0.08	**110**	**R**	From:							NA			NA		06/07/2004
				To: 79-649												
1019 79 Gordon Lane	0.15	**40**	**R**	From: US 360 Richmond Rd							NA			NA		06/07/2004
				To: Dead End												
1020 79 Ivy Lane	0.12	**30**	**R**	From: 79-1005 Lakeside Dr							NA			NA		06/07/2004
				To: NCL Warsaw												
1021 79 Maple St	0.15	**590**	**R**	From: 79-1022							NA			NA		05/24/2004
				To: US 360 Richmond Rd												
1022 79 Walnut St	0.18	**1200**	**R**	From: SR 3							NA			NA		05/24/2004
				To: 79-1021												
1022 79 Walnut St	0.04	**1200**	**R**	From:							NA			NA		05/24/2004
				To: Dead End												
1023 79 Quail Trail	0.16	**70**	**R**	From: Dead End							NA			NA		06/07/2004
				To: 79-1017												
1027 79 Sturman Lane	0.15	**70**	**R**	From: Dead End							NA			NA		06/07/2004
				To: 79-649 Meadowbrook Rd												
1028 79 Level Boulevard	0.13	**160**	**R**	From: 79-1029 Georgia Ave							NA			NA		06/09/2004
				To: 79-1009 Washington Ave												
1028 79 Level Boulevard	0.02	**30**	**R**	From:							NA			NA		06/09/2004
				To: Dead End												
1033 79 Lee Ave	0.17	**150**	**R**	From: US 360 Richmond Rd							NA			NA		06/07/2004
				To: 79-1034 Jackson Court												
1033 79 Lee Ave	0.09	**60**	**R**	From: 79-1034 Jackon Court							NA			NA		06/07/2004
				To: Dead End												
1034 79 Jackson Court	0.05	**40**	**R**	From: 79-1033 Lee Ave							NA			NA		06/07/2004
				To: Cul-de-Sac												
1035 79 College Ave	0.07	**410**	**R**	From: US 360 Richmond Rd							NA			NA		09/11/2001
				To: 79-1037 Atkinson Dr												
1035 79 College Ave	0.22	**160**	**R**	From:							NA			NA		09/11/2001
				To: 79-1038 Freedom Way												
1035 79 College Ave	0.04	**10**	**R**	From:							NA			NA		09/11/2001
				To: Dead End												
1036 79 Campus Drive	0.04	**260**	**R**	From: 79-1004 Court Circle							NA			NA		06/07/2004
				To: 79-1015 Wallace St												
1037 79 Atkinson Drive	0.18	**140**	**R**	From: 79-1035 College Ave							NA			NA		06/07/2004
				To: 0.18 MN 79-1035												
1037 79 Atkinson Drive	0.02	**40**	**R**	From:							NA			NA		06/07/2004
				To: Dead End												

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						2Axle	3+Axle	1Trail	2Trail							
Town of Warsaw																
1038 79 Freedom Way	0.16	**170**	**R**	From: Cul-de-Sac							NA			NA		06/07/2004
				To: 79-1035 College Ave												
1038 79 Freedom Way	0.05	**30**	**R**	From: 79-1035 College Ave							NA			NA		06/07/2004
				To: Cul-de-Sac												