2020
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

The reported 2020 AADTs represent the best estimate of 2020 average daily traffic, however, this year's AADTs do vary from normal traffic in the years prior to 2020 due to COVID-19. The reported AADTs may not represent typical traffic for a given day or period within the year as the drastic seasonal variations were normalized through the factoring process. The 2020 publications are therefore colored to draw users attention to the fact that uses of the 2020 published estimates versus alternative data sources should be determined at users' discretion based on the objectives or nature of the analyses being performed.

The estimated 2020 DVMT for the entire state maintained network total to 208,000,000, which has trended down by 11 percent compared to the 2019 level of 234,000,000. For most traffic links across the state, the estimated 2020 AADTs are also seen to have decreased from their 2019 levels.

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.

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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 buses.

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

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

Frontage Road (F precedes frontage route number)

Secondary Route

Special Routes

Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route

ALT - Alternate Route
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
2020
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
3 Historyland Hwy	Town of Warsaw (Maint: 79)	From: NCL Warsaw	0.20	5400	N	93%	0%	1%	1%	4%	0%	N	0.08	F	0.551	5300	N
		To: Bus SR 3 Main St															
3 Historyland Hwy	Town of Warsaw (Maint: 79)	From: US 360, SR 3 Bus Richmond Rd	0.11	6700	G	92%	1%	2%	2%	3%	0%	F	0.111	F	0.589	6500	G
		To: SCL Warsaw															
Bus 3 Main St	Town of Warsaw (Maint: 79)	From: SR 3 Historyland Hwy	0.77	12000	N	95%	1%	1%	1%	3%	0%	N	0.084	F	0.609	12000	N
		To: US 360 Richmond Rd															
Bus 3 360 Richmond Rd	Town of Warsaw (Maint: 79)	From: US 360; Main St	0.78	12000	G	95%	1%	1%	1%	3%	0%	F	0.084	F	0.609	12000	G
		To: SR 3 Historyland Hwy															
360 Richmond Rd	Town of Warsaw (Maint: 79)	From: WCL Warsaw	2.02	12000	N	95%	1%	1%	1%	3%	0%	N	0.103	A	0.591	13000	N
		To: W SR 3 Bus															
360 Bus 3 Richmond Rd	Town of Warsaw (Maint: 79)	From: W SR 3 Bus	0.78	12000	G	95%	1%	1%	1%	3%	0%	F	0.084	F	0.609	12000	G
		To: E SR 3 Bus, SR 3															
360 Richmond Rd	Town of Warsaw (Maint: 79)	From: E SR 3 Bus, SR 3	0.37	5900	G	95%	1%	1%	1%	3%	0%	F	0.086	F	0.662	5800	G
		To: ECL Warsaw															

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Town of Warsaw																
624 79 Sabine Hall Rd	0.10	**70**	**N**								NA			NA		06/08/2016
From: SCL Warsaw																
To: US 360 E, Richmond Rd																
649 79 Meadowbrook Rd	0.26	**110**	**R**								NA			NA		03/26/2019
From: US 360 W, Richmond Rd																
To: US 360 E, Richmond Rd																
690 79 Menokin Rd	0.20	**640**	**G**	96%	1%	2%	0%	1%	0%	C	0.121	F	0.534	630	G	2020
From: SR 3 Bus																
To: NCL Warsaw																
700 79 Selftown Rd	0.13	**210**	**R**								NA			NA		04/10/2019
From: US 360 Richmond Rd																
To: NCL Warsaw																
1000 79 Harris Ave	0.25	**50**	**R**								NA			NA		04/03/2019
From: SR 3																
To: Cul-de-Sac																
1001 79 Hamilton Blvd	0.75	**280**	**G**	99%	0%	0%	1%	0%	0%	C	0.13	F		270	G	2020
From: US 360 Richmond Rd																
To: Bus SR 3																
1002 79 Belleville Lane	0.23	**270**	**R**								NA			NA		03/26/2019
From: SR 3																
To: 79-1001 Hamilton Blvd																
1003 79 St Johns St	0.23	**670**	**R**								NA			NA		03/26/2019
From: SR 3																
To: US 360 Richmond Rd																
1004 79 Court Circle	0.17	**470**	**R**								NA			NA		03/26/2019
From: US 360 Richmond Rd; Bus SR 3																
To: 79-1036 Campus Dr																
1004 79 Court Circle		**180**	**R**								NA			NA		06/15/2016
From: 79-1036 Campus Dr																
To: End Loop																
1005 79 Lakeside Dr	0.18	**70**	**R**								NA			NA		06/15/2016
From: 79-1012 Sunset Lane																
To: 79-1006 Ridgeway Rd																
1005 79 Lakeside Dr	0.17	**46**	**R**								NA			NA		06/15/2016
From: 79-1006 Rideway Rd																
To: 79-1020 Ivy Lane																
1005 79 Lakeside Dr	0.08	**80**	**R**								NA			NA		06/15/2016
From: 79-1020 Ivy Lane																
To: 79-690 Menokin Rd																
1006 79 Ridgeway Rd	0.08	**190**	**R**								NA			NA		03/26/2019
From: 79-1012 Sunset Lane																
To: 79-1005 Lakeside Dr																
1006 79 Ridgeway Rd	0.10	**350**	**R**								NA			NA		03/26/2019
From: 79-1005 Lakeside Dr																
To: SR 3																
1007 79 Sabine Hall Rd		**560**	**R**								NA			NA		06/25/2019
From: US 360 Richmond Rd																
To: Dead End																
1008 79 Pine St	0.19	**60**	**R**								NA			NA		03/26/2019
From: US 360 Richmond Rd																
To: 79-1002 Belleville Lane																
1009 79 Washington Ave	0.09	**130**	**R**								NA			NA		06/15/2016
From: 79-1028 Level Blvd																
To: 79-1014 S, E Monroe Ave																
1009 79 Washington Ave	0.02	**180**	**R**								NA			NA		06/15/2016
From: 79-1014 S, E Monroe Ave																
To: 79-1014 N, W Monroe Ave																
1009 79 Washington Ave	0.06	**220**	**R**								NA			NA		06/15/2016
From: 79-1014 N, W Monroe Ave																
To: 79-1010 S, E Jefferson Ave																

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Town of Warsaw

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																
From: 79-1010 S, E Jefferson Ave																
(1009 79) Washington Ave	0.03	**260**	**R**								NA			NA		06/15/2016
To: 79-1010 N, W Jefferson Ave																
From: (1009 79) Washington Ave	0.05	**380**	**R**								NA			NA		03/26/2019
To: US 360 Richmond Rd																
From: WCL Warsaw																
(1010 79) W Jefferson Ave	0.06	**49**	**R**								NA			NA		06/15/2016
To: 79-1011 Madison Ave																
From: (1010 79) W Jefferson Ave	0.09	**170**	**R**								NA			NA		06/15/2016
To: 79-1009 Washington Ave																
From: 79-1009 S, Washington Ave																
(1010 79) E Jefferson Ave	0.14	**48**	**R**								NA			NA		06/15/2016
To: 79-1018 Memorial Dr																
From: 79-1014 W Monroe Ave																
(1011 79) Madison Ave	0.09	**60**	**R**								NA			NA		06/15/2016
To: 79-1010 W Jefferson Ave																
From: Dead End																
(1012 79) Sunset Lane	0.11	**40**	**R**								NA			NA		03/23/2016
To: 79-1005 Lakeside Dr																
From: (1012 79) Sunset Lane	0.08	**120**	**R**								NA			NA		06/15/2016
To: 79-1006 Ridgeway Rd																
From: (1012 79) Sunset Lane	0.28	**60**	**R**								NA			NA		03/23/2016
To: Dead End																
From: US 360 Richmond Rd																
(1013 79) Jones Lane	0.18	**260**	**R**								NA			NA		06/25/2019
To: Dead End																
From: WCL Warsaw																
(1014 79) W Monroe Ave	0.04	**10**	**R**								NA			NA		06/15/2016
To: 79-1011 Madison Ave																
From: (1014 79) W Monroe Ave	0.09	**70**	**R**								NA			NA		06/15/2016
To: 79-1009 Washington Ave																
From: (1014 79) E Monroe Ave	0.15	**30**	**R**								NA			NA		06/15/2016
To: 79-1018 Memorial Dr																
From: Cul-de-Sac																
(1015 79) Wallace St	0.23	**90**	**R**								NA			NA		04/03/2019
To: 0.23 MN Cul-de-Sac																
From: (1015 79) Wallace St	0.33	**570**	**R**								NA			NA		06/25/2019
To: 79-1036 Campus Dr																
From: (1015 79) Wallace St	0.09	**640**	**R**								NA			NA		06/15/2016
To: US 360 Richmond Rd																
From: 79-1017 West Morgan Lane																
(1016 79) Morgan Lane	0.41	**360**	**R**								NA			NA		06/08/2016
To: US 360 Richmond Rd																
From: Dead End																
(1017 79) West Morgan Lane	0.04	**20**	**R**								NA			NA		03/23/2016
To: 79-1016 Morgan Lane																
From: (1017 79) Morgan Lane	0.07	**160**	**R**								NA			NA		06/08/2016
To: 79-1023 Quail Trail																
From: (1017 79) Morgan Lane	0.10	**40**	**R**								NA			NA		03/23/2016
To: Dead End																
From: SCL Warsaw																
(1018 79) Memorial Dr	0.07	**48**	**R**								NA			NA		06/15/2016
To: 79-1014 E Monroe Ave																
From: (1018 79) Memorial Dr	0.08	**90**	**R**								NA			NA		06/15/2016
To: 79-1010 E Jefferson Ave																

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Town of Warsaw																
1018 79 Memorial Dr	0.08	**160**	From: 79-1010 E Jefferson Ave **R** To: 79-649 Meadowbrook Rd								NA			NA		06/15/2016
1019 79 Gordon Lane	0.15	**70**	From: US 360 Richmond Rd **R** To: Dead End								NA			NA		06/08/2016
1020 79 Ivy Lane	0.12	**30**	From: 79-1005 Lakeside Dr **R** To: NCL Warsaw								NA			NA		06/15/2016
1021 79 Maple St	0.15	**690**	From: 79-1022 Walnut St **R** To: US 360 Richmond Rd								NA			NA		06/08/2016
1022 79 Walnut St	0.18	**1500**	From: SR 3 Historyland Hwy **R** To: 79-1021 Maple St								NA			NA		06/08/2016
1022 79 Walnut St	0.04	**1600**	From: **R** To: Dead End								NA			NA		06/08/2016
1023 79 Quail Trail	0.16	**50**	From: Dead End **R** To: 79-1017 West Morgan Lane								NA			NA		03/23/2016
1027 79 Sturman Lane	0.15	**40**	From: Dead End **R** To: 79-649 Meadowbrook Rd								NA			NA		03/23/2016
1028 79 Level Blvd	0.13	**60**	From: 79-1029 Georgia Ave **R** To: 79-1009 Washington Ave								NA			NA		06/15/2016
1028 79 Level Blvd	0.02	**20**	From: **R** To: Dead End								NA			NA		03/23/2016
1033 79 Lee Ave	0.17	**90**	From: US 360 Richmond Rd **R** To: 79-1034 Jackson Court								NA			NA		06/08/2016
1033 79 Lee Ave	0.09	**70**	From: 79-1034 Jackon Court **R** To: Dead End								NA			NA		03/23/2016
1034 79 Jackson Court	0.05	**20**	From: 79-1033 Lee Ave **R** To: Cul-de-Sac								NA			NA		03/23/2016
1035 79 College Ave	0.07	**340**	From: US 360 Richmond Rd **R** To: 79-1037 Atkinson Dr								NA			NA		03/26/2019
1035 79 College Ave	0.22	**170**	From: **R** To: 79-1038 Freedom Way								NA			NA		03/26/2019
1035 79 College Ave	0.04	**10**	From: **R** To: Dead End								NA			NA		04/03/2019
1036 79 Campus Dr	0.04	**410**	From: 79-1004 Court Circle **R** To: 79-1015 Wallace St								NA			NA		06/15/2016
1037 79 Atkinson Dr	0.18	**110**	From: 79-1035 College Ave **R** To: 0.18 MN 79-1035 College Ave								NA			NA		06/08/2016
1037 79 Atkinson Dr	0.02	**60**	From: **R** To: Dead End								NA			NA		03/23/2016
1038 79 Freedom Way	0.16	**70**	From: Cul-de-Sac **R** To: 79-1035 College Ave								NA			NA		03/23/2016

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						2Axle	3+Axle	1Trail	2Trail							
Town of Warsaw																
(1038 79) Freedom Way	0.05	**30**	From: 79-1035 College Ave **R** To: Cul-de-Sac								NA			NA		03/23/2016