2020
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

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 Warrenton

Route	Jurisdiction		Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
15 29 Eastern Bypass	Town of Warrenton (Maint: 30)	From: SCL Warrenton	0.26	41000	G	89%	1%	1%	1%	7%	0%	F	0.081	F	0.606	40000	G
		To: NCL Warrenton															
Bus 15 Bus 17 Bus 29 James Madison Hwy	Town of Warrenton	From: SCL Warrenton	0.34	9300	N	97%	0%	1%	1%	1%	0%	N	0.108	A	0.511	9700	N
		To: US 17 Bus; Shirley Ave															
Bus 15 Falmouth St	Town of Warrenton	From:		4100	G	98%	0%	1%	0%	0%	0%	C	0.094	F	0.560	4400	G
		To: Mockingbird Lane															
Bus 15 Main St	Town of Warrenton	From:		5200	G	99%	0%	1%	0%	0%	0%	C	0.089	F	0.593	5600	G
		To: Culpeper St															
Bus 15 Main St	Town of Warrenton	From:	0.05	5200	N	99%	0%	1%	0%	0%	0%	N	0.089	F	0.593	5600	N
		To: US 211 Bus															
Bus 15 Bus 211 Main St	Town of Warrenton	From:	0.01	5200	N	99%	0%	1%	0%	0%	0%	N	0.089	F	0.593	5600	N
		To: Alexandria Pike															
Bus 15 Bus 211 Alexandria Pike	Town of Warrenton	From: Main St	0.24	5600	G	99%	0%	0%	0%	0%	0%	C	0.097	F	0.502	5900	G
		To: King St															
Bus 15 Bus 211 Alexandria St	Town of Warrenton	From:	0.21	6000	G	99%	0%	0%	0%	0%	0%	F	0.092	F	0.515	6400	G
		To: Blackwell Rd															
Bus 15 Bus 211 Blackwell Rd	Town of Warrenton	From: Alexandria Pike	0.58	6200	G	99%	0%	0%	0%	0%	0%	C	0.093	F	0.549	6700	G
		To: US 29 Bus US 211; Lee Hwy															
Bus 15 Bus 29 Lee Highway	Town of Warrenton	From: US 29 Bus US 211; Blackwell Rd	0.59	27000	G	99%	0%	0%	0%	0%	0%	F	0.087	F	0.526	29000	G
		To: NCL Warrenton															
17	Town of Warrenton (Maint: 30)	From: SCL Warrenton	1.52	11000	G	86%	1%	1%	1%	11%	1%	F	0.087	F	0.509	12000	G
		To: NCL Warrenton															
Bus 17 Bus 15 Bus 29 James Madison Hwy	Town of Warrenton	From: SCL Warrenton	0.34	9300	N	97%	0%	1%	1%	1%	0%	N	0.108	A	0.511	9700	N
		To: Bus US 15															
Bus 17 Bus 29 East Shirley Ave	Town of Warrenton	From: Bus US 15 Falmouth St	0.96	10000	G	97%	0%	1%	1%	0%	0%	C	0.084	F	0.521	11000	G
		To: Culpeper St															
Bus 17 Bus 29 West Shirley Ave	Town of Warrenton	From:	0.80	14000	G	98%	0%	1%	0%	0%	0%	C	0.086	F	0.53	15000	G
		To: Bus US 211 Waterloo St															
Bus 17 Bus 29 211 Broadview Ave	Town of Warrenton	From:	0.86	27000	G	98%	0%	1%	0%	0%	0%	C	0.08	F	0.584	NA	
		To: Bus US 29 Lee Hwy															

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Bus 17 Broadview Ave	Town of Warrenton	From: Bus US 29 Lee Hwy	0.57	8800	G	97%	0%	1%	1%	1%	0%	C	0.097	F	0.627	9400	G
		To: NCL Warrenton															
29 15 Eastern Bypass	Town of Warrenton (Maint: 30)	From: SCL Warrenton	0.26	41000	G	89%	1%	1%	1%	7%	0%	F	0.081	F	0.606	40000	G
		To: NCL Warrenton															
Bus Bus Bus 29 15 17 James Madison Hwy	Town of Warrenton	From: SCL Warrenton	0.34	9300	N	97%	0%	1%	1%	1%	0%	N	0.108	A	0.511	9700	N
		To: BUS US 17 Shirley Ave															
Bus Bus 29 17 East Shirley Ave	Town of Warrenton	From: BUS US 15	0.96	10000	G	97%	0%	1%	1%	0%	0%	C	0.084	F	0.521	11000	G
		To: Culpeper St															
Bus Bus 29 17 West Shirley Ave	Town of Warrenton	From: US 17, US 211	0.80	14000	G	98%	0%	1%	0%	0%	0%	C	0.086	F	0.53	15000	G
		To: Bus US 17 Broadview Ave															
Bus Bus 29 17 211 Broadview Ave	Town of Warrenton	From:	0.86	27000	G	98%	0%	1%	0%	0%	0%	C	0.08	F	0.584	NA	
		To:															
Bus 29 211 Lee Highway	Town of Warrenton	From:	0.55	22000	G	98%	0%	1%	0%	1%	0%	C	0.077	F	0.537	NA	
		To: Bus US 15 Blackwell Rd															
Bus Bus 29 15 Lee Highway		From: BUS US 15	0.59	27000	G	99%	0%	0%	0%	0%	0%	F	0.087	F	0.526	29000	G
		To: NCL Warrenton															
211 Frost Ave	Town of Warrenton	From: WCL Warrenton	0.48	20000	G	98%	0%	1%	0%	0%	0%	C	0.087	F	0.678	NA	
		To: Bus US 17; Bus US 29															
Bus Bus 211 17 29 Broadview Ave	Town of Warrenton	From: Shirley Ave; Bus US 17	0.86	27000	G	98%	0%	1%	0%	0%	0%	C	0.08	F	0.584	NA	
		To: Bus US 17 Broadview Ave															
Bus 211 29 Lee Highway	Town of Warrenton	From:	0.55	22000	G	98%	0%	1%	0%	1%	0%	C	0.077	F	0.537	NA	
		To: Bus US 15 Blackwell Rd															
Bus 211 Waterloo St	Town of Warrenton	From: Broadview Ave	0.62	5500	G	99%	0%	1%	0%	0%	0%	C	0.098	F	0.609	5900	G
		To: Diagonal St															
Bus 211 Waterloo St	Town of Warrenton	From:	0.10	4900	G	99%	0%	1%	0%	0%	0%	F	0.097	F	0.515	5300	G
		To: US 15 Bus															
Bus Bus 211 15 Main St	Town of Warrenton	From: Bus US 15	0.01	5200	N	99%	0%	1%	0%	0%	0%	N	0.089	F	0.593	5600	N
		To: Alexandria Pike															
Bus Bus 211 15 Alexandria Pike	Town of Warrenton	From: Main St	0.24	5600	G	99%	0%	0%	0%	0%	0%	C	0.097	F	0.502	5900	G
		To: King St															

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Bus 211 Bus 15 Alexandria St	Town of Warrenton	From: King St	0.21	6000	G	99%	0%	0%	0%	0%	0%	F	0.092	F	0.515	6400	G
		To: Blackwell Rd															
Bus 211 Bus 15 Blackwell Rd	Town of Warrenton	From: Alexandria Pike	0.58	6200	G	99%	0%	0%	0%	0%	0%	C	0.093	F	0.549	6700	G
		To: US 29 BUS US 211 Lee Hwy															

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Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Fauquier County																
(1541 30) Silver Cup Dr	0.04	**380**	**R**								NA			NA		09/17/2015
From: CL Warrenton To: 30-1542																
(1541 30) Silver Cup Dr	0.17	**100**	**R**								NA			NA		09/17/2015
From: 30-1542 To: Cul-de-Sac																
(1542 30) Iron Bit Dr	0.28	**120**	**R**								NA			NA		09/17/2015
From: Cul-de-Sac To: 30-1541																
(1542 30) Iron Bit Dr	0.14	**90**	**R**								NA			NA		07/27/2015
From: 30-1541 To: Cul-de-Sac																
(1543 30) Black Sweep Rd	0.04	**180**	**R**								NA			NA		10/23/2015
From: Warrenton CL To: 30-1542																
Town of Warrenton																
(2) Alexandria Pike	0.58	**300**	**G**	96%	0%	1%	2%	0%	0%	C	0.092	F	0.553	320	G	2020
From: Blackwell Rd To: Dead End																
(3) Oak Springs Dr	0.26	**2600**	**G**	99%	0%	1%	0%	0%	0%	C	0.103	F	0.527	2700	G	2020
From: Broadview Ave To: Branch Dr																
(4) Branch Dr	0.19	**3600**	**G**	99%	0%	0%	0%	0%	0%	C	0.111	F	0.535	3800	G	2020
From: Lee Highway To: Oak Springs Dr																
(880) Bear Wallow Rd	0.49	**3700**	**G**	97%	0%	1%	1%	0%	0%	C	0.085	F	0.649	3900	G	2020
From: WCL Warrenton To: Broadview Ave																
(886) Waterloo Rd	0.58	**2200**	**G**	98%	0%	1%	0%	0%	0%	C	0.110	F	0.757	2300	G	2020
From: WCL Warrenton To: Rappahannock St																
(886) Rappahannock St	0.03	**1300**	**G**	98%	0%	1%	0%	0%	0%	F	0.099	F	0.953	1400	G	2020
From: Waterloo Rd To: US 211 Frost Ave																
(893) Old Meetze Rd	0.37	**450**	**G**	97%	0%	2%	0%	0%	0%	C	0.106	F	0.581	480	G	2020
From: Falmouth St To: Dead End																
(1893) Winchester St	0.42	**2800**	**G**	99%	0%	0%	0%	0%	0%	F	0.097	F	0.542	3000	G	2020
From: Alexandria St To: King St																
(1893) Winchester St	0.69	**3500**	**G**	99%	0%	0%	0%	0%	0%	C	0.089	F	0.624	3700	G	2020
From: King St To: Lee Highway																
(1894) Culpeper St	0.38	**2200**	**G**	99%	0%	0%	0%	0%	0%	C	0.095	F	0.646	2400	G	2020
From: Shirley Ave To: Hotel St																
(1894) Culpeper St	0.04	**1000**	**G**	99%	0%	0%	0%	0%	0%	F	0.094	F		1100	G	2020
From: Hotel St To: Main St																
(1895) Old Broadview Ave	0.17	**4200**	**G**	98%	0%	0%	1%	0%	0%	C	0.088	F	0.536	4500	G	2020
From: US 15 To: US 17																
Culpeper St		**5200**	**G**	98%	1%	1%	0%	0%	0%	C	0.090	F	0.589	5200	G	2020
From: SCL Warrenton To: Fisher Ln																
East St		**130**	**G**								0.137	F	0.787	140	G	2020
From: Falmouth St To: Meetze Rd																
Fletcher Dr		**1400**	**G**	98%	1%	1%	0%	0%	0%	C	0.105	F	0.517	1400	G	2020
From: Bus US 29 To: Oak Springs Dr																

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						2Axle	3+Axle	1Trail	2Trail							
Town of Warrenton																
		From: Bear Wallow Dr														
Foxcroft Rd		**1500**	**G**	99%	1%	1%	0%	0%	0%	C	0.138	F	0.652	1500	G	2020
		To: Fauquier Rd														
		From: 3rd St														
Lee St		**4000**	**G**	97%	1%	1%	0%	1%	0%	C	0.101	F	0.576	4000	G	2020
		To: 4th St														
		From: Falmouth St														
Meetze Rd		**9800**	**G**	98%	1%	1%	0%	0%	0%	C	0.100	F	0.533	9800	G	2020
		To: East St														