

2020

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

where available

Special Locality Report

137

City of Williamsburg

Information in this report is included in Report

47

(James City 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.

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
Bypass - 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 Maintenance 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
 City of Williamsburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: WCL Williamsburg															
5 199	City of Williamsburg (Maint: 47)	0.24	33000	G	97%	0%	1%	1%	1%	0%	F	0.088	F	0.565	35000	G
	To: SR 31, SR 199															
5	Jamestown Rd	0.27	6700	G	98%	0%	1%	1%	0%	0%	F	0.109	F	0.620	7100	G
	To: 137-7073 John Tyler Memorial Hwy															
5	Jamestown Rd	1.50	7300	G	98%	0%	1%	1%	0%	0%	C	0.097	F	0.616	7700	G
	To: 137-7075 Boundary St															
5	Boundary St	0.07	7500	G	98%	0%	1%	1%	0%	0%	F	0.096	F	0.559	8000	G
	To: Francis St															
5	Francis St	0.09	5800	G	98%	0%	1%	1%	0%	0%	F	0.106	F	0.527	6100	G
	To: SR 132 Henry St															
5 132	Henry St	0.38	3700	G	98%	0%	1%	1%	0%	0%	F	0.081	F	0.618	3900	G
	To: SR 162 Lafayette St															
5	Lafayette St	0.33	8300	G	97%	1%	1%	0%	0%	0%	F	0.105	F	0.531	8900	G
	To: SR 132 Henry St															
5	Lafayette St	0.73	7000	G	97%	1%	1%	0%	0%	0%	C	0.104	F	0.551	7400	G
	To: Capital Landing Rd															
5 60	Page St	0.25	11000	G	98%	0%	1%	0%	0%	0%	C	0.09	F	0.567	12000	G
	To: US 60 Page St															
5 60	Page St	0.31	12000	G	98%	0%	1%	0%	0%	0%	F	0.092	F	0.576	13000	G
	To: Second St															
5	Capitol Landing Rd	0.62	5500	G	98%	0%	1%	0%	0%	0%	C	0.079	F	0.543	5800	G
	To: SR 143 Merrimac St															
31	Jamestown Rd	0.04	13000	G	98%	1%	1%	0%	0%	0%	F	0.087	F	0.579	14000	G
	To: WCL Williamsburg															
31	Jamestown Rd	0.02	13000	G	98%	1%	1%	0%	0%	0%	F	0.087	F	0.579	14000	G
	To: State Maintenance Boundary															
	To: SR 5; SR 199															
60	Richmond Rd	1.37	18000	G	99%	0%	1%	0%	0%	0%	F	0.083	F	0.500	20000	G
	To: WCL Williamsburg															
60	Richmond Rd	0.30	21000	G	99%	0%	1%	0%	0%	0%	C	0.077	F	0.551	NA	
	To: Ironbound Rd															
60	Bypass Rd	0.11	20000	G	99%	0%	0%	0%	0%	0%	C	0.077	F	0.541	NA	
	To: Bypass Rd															
	To: Richmond Rd															
60	Bypass Rd	0.50	11000	G	98%	0%	1%	0%	0%	0%	C	0.093	F	0.587	12000	G
	To: NCL Williamsburg															
	To: Parkway Dr															

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Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
		From: Parkway Dr														
60 Bypass Rd	City of Williamsburg	0.16	9300	G	98%	0%	1%	0%	0%	0%	F	0.093	F	0.595	9800	G
		To: SR 5 Capitol Landing Rd														
60 5 Page St	City of Williamsburg	0.31	12000	G	98%	0%	1%	0%	0%	0%	F	0.092	F	0.576	13000	G
		From: Second Street														
60 5 Page St	City of Williamsburg	0.25	11000	G	98%	0%	1%	0%	0%	0%	C	0.09	F	0.567	12000	G
		To: SR 5 Lafayette St; York St														
		From: SR 5 Lafayette St; Page St														
60 York St	City of Williamsburg	0.60	10000	G	98%	1%	1%	0%	0%	0%	C	0.103	F	0.555	11000	G
		To: ECL Williamsburg														
		From: SR 199														
132 Henry St South	City of Williamsburg	1.77	2200	G	98%	0%	1%	1%	1%	0%	C	0.091	F	0.578	2400	G
		From: Ireland Street														
132 Henry St South	City of Williamsburg	0.08	2700	F	98%	0%	1%	1%	1%	0%	F	0.091	F	0.578	2800	F
		To: SR 5 Henry St; Francis St														
		From: SR 5														
132 5 Henry St	City of Williamsburg	0.38	3700	G	98%	0%	1%	1%	0%	0%	F	0.081	F	0.618	3900	G
		To: FRANCIS ST														
		From: Lafayette St														
132 Henry St North	City of Williamsburg	0.44	4000	G	97%	1%	2%	1%	0%	0%	C	0.085	F	0.526	4200	G
		To: SR 132 Y														
132 N.Henry St	City of Williamsburg	0.16	5700	G	97%	1%	2%	1%	0%	0%	F	0.091	F	0.531	6100	G
		To: York County Line														
		From: Colonial Parkway														
132 Wye	City of Williamsburg	0.29	4200	G	98%	1%	1%	0%	0%	0%	C	0.098	F	0.611	4400	G
		To: SR 132 N.Henry St														
		From: ECL Williamsburg														
143 Merrimac Trail	City of Williamsburg	0.90	5400	G	98%	0%	1%	0%	0%	0%	C	0.093	F	0.533	5800	G
		To: SR 5 Capital Landing Rd														
143 Merrimac Trail	City of Williamsburg	0.37	7500	G	98%	0%	1%	0%	0%	0%	C	0.090	F	0.505	8000	G
		To: York County Line														
		From: WCL Williamsburg														
199 5	City of Williamsburg (Maint: 47)	0.24	33000	G	97%	0%	1%	1%	1%	0%	F	0.088	F	0.565	35000	G
		To: SR 5; SR 31 Jamestown Rd														
199	City of Williamsburg (Maint: 47)	0.07	33000	G	97%	0%	1%	1%	1%	0%	F	0.088	F	0.551	36000	G
		To: James City County Line														
199	City of Williamsburg (Maint: 47)	0.09	33000	N	97%	0%	1%	1%	1%	0%	N	0.088	F	0.551	36000	N
		To: ECL Williamsburg														
		From: 47-615 Ironbound Rd														
321 Monticello Ave	City of Williamsburg (Maint: 47)		15000	G	99%	0%	0%	0%	0%	0%	C	0.091	F	0.514	16000	G
		To: Compton Dr														

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							2Axle	3+Axle	1Trail	2Trail							
90003 Colonial Parkway	From:	James City County Line															
		City of Williamsburg (Maint: 999)		5700	G						0.091	F	0.649	5900	G		
	To:	York County Line															

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Williamsburg																
(7075) Richmond Rd	0.37	15000	G	98%	0%	1%	0%	0%	0%	C	0.085	F	0.542	16000	G	2020
						From: Bypass Rd										
						To: Monticello Ave										
(7075) Richmond Rd	0.95	8300	G	97%	0%	2%	0%	0%	0%	C	0.087	F	0.505	8800	G	2020
						From: Armistead Ave										
						To: Henry St South										
(7075) Francis St		4700	G	99%	0%	1%	0%	0%	0%	C	0.096	F	0.508	5000	G	2020
						From: Waller St										
						To: Richmond Rd										
(7077) Lafayette St	0.12	7800	G	99%	0%	1%	0%	0%	0%	F	0.098	F	0.552	8300	G	2020
						From: Bacon Ave										
						To: Bacon St										
(7077) Lafayette St	0.82	8500	G	99%	0%	1%	0%	0%	0%	F	0.099	F	0.57	9000	G	2020
						From: Henry St										
						To: Page St										
(7079) Second St	0.19	10000	G	98%	0%	1%	0%	0%	0%	F	0.09	F	0.563	11000	G	2020
						From: Parkway Dr										
						To: York County Line										
(7079) Second St	0.22	11000	G	98%	0%	1%	0%	0%	0%	C	0.088	F	0.544	12000	G	2020
						From: James City County Line										
						To: Longhill Rd										
(7081) Iron Bound Rd	0.57	8200	G	99%	0%	1%	0%	0%	0%	C	0.087	F	0.547	8700	G	2020
						From: Longhill Rd										
						To: Richmond Rd										
(7081) Iron Bound Rd	0.05	11000	G	99%	0%	1%	0%	0%	0%	F	0.079	F	0.545	11000	G	2020
						From: Richmond Rd										
						To: Ironbound Rd										
(7082) Longhill Rd	0.63	3800	G	99%	0%	1%	0%	0%	0%	C	0.093	F	0.65	4100	G	2020
						From: WCL Williamsburg										
						To: Compton Dr										
(7083) Monticello Ave	0.35	13000	G								0.085	F	0.519	14000	G	2020
						From: Richmond Rd										
						To: Page St										
(7086) Penniman Rd	0.49	2800	G	98%	0%	1%	0%	0%	0%	C	0.087	F	0.668	3000	G	2020
						From: York County Line										
						To: Golf Course Entrance										
Carters Grove Country Rd		370	G	97%	1%	2%	0%	0%	0%	C	0.117	F	0.696	370	G	2020
						From: Williamsburg Avenue										
						To: Jones Mill Lane										
Holly Hills Dr		630	G	99%	1%	1%	0%	0%	0%	C	0.115	F	0.503	630	G	2020
						From: Sir Thomas Lunsford Dr										
						To: Mount Vernon Avenue										
Matoaka Court		820	G								0.103	F	0.735	820	G	2020
						From: Richmond Road										
						To: Piney Creek Dr										
Patrick Henry Dr		560	G	99%	0%	0%	0%	0%	0%	C	0.108	F	0.516	560	G	2020
						From: Waltz Dr										
						To: SR 199										
Quarterpath Rd		860	G								0.098	F	0.644	920	G	2020
						From: York St										
						To: Williamsburg Avenue										
S England St		1900	G								0.089	F	0.536	1900	G	2020
						From: Francis Street										