

2019
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

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

-  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.

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 2019
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 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	38000	F	97%	0%	1%	1%	1%	0%	F	0.088	F	0.565	41000	F
	To: SR 31, SR 199															
	From: SR 31 Jamestown Rd; SR 199															
5 Jamestown Rd	City of Williamsburg	0.27	7700	F	98%	0%	1%	1%	0%	0%	F	0.109	F	0.620	8200	F
	To: 137-7073 John Tyler Memorial Hwy															
	From: 137-7073 John Tyler Memorial Hwy															
5 Jamestown Rd	City of Williamsburg	1.50	8300	F	98%	0%	1%	1%	0%	0%	C	0.097	F	0.616	8900	F
	To: 137-7075 Boundary St															
	From: 137-7075 Boundary St															
5 Boundary St	City of Williamsburg	0.07	8700	F	98%	0%	1%	1%	0%	0%	F	0.096	F	0.559	9200	F
	To: Francis St															
	From: Francis St															
5 Francis St	City of Williamsburg	0.09	6600	F	98%	0%	1%	1%	0%	0%	F	0.106	F	0.527	7000	F
	To: SR 132 Henry St															
	From: SR 132 Henry St															
5 132 Henry St	City of Williamsburg	0.38	4200	F	98%	0%	1%	1%	0%	0%	F	0.081	F	0.618	4500	F
	To: SR 162 Lafayette St															
	From: SR 162 Lafayette St															
5 Lafayette St	City of Williamsburg	0.33	9600	F	97%	1%	1%	0%	0%	0%	F	0.105	F	0.531	10000	F
	To: Capital Landing Rd															
	From: Capital Landing Rd															
5 Lafayette St	City of Williamsburg	0.73	8000	F	97%	1%	1%	0%	0%	0%	C	0.104	F	0.551	8500	F
	To: US 60 Page St															
	From: US 60 Page St															
5 60 Page St	City of Williamsburg	0.25	12000	F	98%	0%	1%	0%	0%	0%	C	0.09	F	0.567	13000	F
	To: Second St															
	From: Second St															
5 60 Page St	City of Williamsburg	0.31	14000	F	98%	0%	1%	0%	0%	0%	F	0.092	F	0.576	15000	F
	To: US 60 Page St															
	From: US 60 Page St															
5 Capitol Landing Rd	City of Williamsburg	0.62	6300	F	98%	0%	1%	0%	0%	0%	C	0.079	F	0.543	6700	F
	To: SR 143 Merrimac St															
	From: SR 143 Merrimac St															
	From: WCL Williamsburg															
31 Jamestown Rd	City of Williamsburg	0.04	15000	F	98%	1%	1%	0%	0%	0%	F	0.087	F	0.579	16000	F
	To: State Maintenance Boundary															
	From: State Maintenance Boundary															
31 Jamestown Rd	City of Williamsburg (Maint: 47)	0.02	15000	F	98%	1%	1%	0%	0%	0%	F	0.087	F	0.579	16000	F
	To: SR 5; SR 199															
	From: SR 5; SR 199															
	From: WCL Williamsburg															
60 Richmond Rd	City of Williamsburg	1.37	21000	G	99%	0%	1%	0%	0%	0%	F	0.083	F	0.500	23000	G
	To: Ironbound Rd															
	From: Ironbound Rd															
60 Richmond Rd	City of Williamsburg	0.30	25000	F								0.077	F	0.551	NA	
	To: Bypass Rd															
	From: Bypass Rd															
60 Bypass Rd	City of Williamsburg	0.11	23000	F								0.077	F	0.541	NA	
	To: NCL Williamsburg															
	From: NCL Williamsburg															
60 Bypass Rd	City of Williamsburg	0.50	13000	F	98%	0%	1%	0%	0%	0%	C	0.093	F	0.587	14000	F
	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	11000	F	98%	0%	1%	0%	0%	0%	F	0.093	F	0.595	11000	F
		To: SR 5 Capitol Landing Rd														
60 5 Page St	City of Williamsburg	0.31	14000	F	98%	0%	1%	0%	0%	0%	F	0.092	F	0.576	15000	F
		To: Second Street														
60 5 Page St	City of Williamsburg	0.25	12000	F	98%	0%	1%	0%	0%	0%	C	0.09	F	0.567	13000	F
		To: SR 5 Lafayette St; York St														
		From: SR 5 Lafayette St; Page St														
60 York St	City of Williamsburg	0.60	12000	F	98%	1%	1%	0%	0%	0%	C	0.103	F	0.555	13000	F
		To: ECL Williamsburg														
		From: SR 199														
132 Henry St South	City of Williamsburg	1.77	2600	F	98%	0%	1%	1%	1%	0%	C	0.091	F	0.578	2700	F
		To: Ireland Street														
132 Henry St South	City of Williamsburg	0.08	4000	G	98%	0%	1%	1%	1%	0%	F	0.091	F	0.578	4400	G
		To: SR 5 Henry St; Francis St														
		From: SR 5														
132 5 Henry St	City of Williamsburg	0.38	4200	F	98%	0%	1%	1%	0%	0%	F	0.081	F	0.618	4500	F
		To: FRANCIS ST														
		From: Lafayette St														
132 Henry St North	City of Williamsburg	0.44	4500	F	97%	1%	2%	1%	0%	0%	C	0.085	F	0.526	4800	F
		To: SR 132 Y														
132 N.Henry St	City of Williamsburg	0.16	6600	F	97%	1%	2%	1%	0%	0%	F	0.091	F	0.531	7000	F
		To: York County Line														
		From: Colonial Parkway														
132 Wye	City of Williamsburg	0.29	4800	F	98%	1%	1%	0%	0%	0%	C	0.098	F	0.611	5100	F
		To: SR 132 N.Henry St														
		From: ECL Williamsburg														
143 Merrimac Trail	City of Williamsburg	0.90	6200	F	98%	0%	1%	0%	0%	0%	C	0.093	F	0.533	6600	F
		To: SR 5 Capital Landing Rd														
143 Merrimac Trail	City of Williamsburg	0.37	8700	F	98%	0%	1%	0%	0%	0%	C	0.090	F	0.505	9200	F
		To: York County Line														
		From: WCL Williamsburg														
199 5	City of Williamsburg (Maint: 47)	0.24	38000	F	97%	0%	1%	1%	1%	0%	F	0.088	F	0.565	41000	F
		To: SR 5; SR 31 Jamestown Rd														
199	City of Williamsburg (Maint: 47)	0.07	39000	F	97%	0%	1%	1%	1%	0%	F	0.088	F	0.551	42000	F
		To: James City County Line														
199	City of Williamsburg (Maint: 47)	0.09	39000	N	97%	0%	1%	1%	1%	0%	N	0.088	F	0.551	42000	N
		To: ECL Williamsburg														
		From: 47-615 Ironbound Rd														
321 Monticello Ave	City of Williamsburg (Maint: 47)	0.77	18000	F	99%	0%	0%	0%	0%	0%	C	0.091	F	0.514	19000	F
		To: Compton Dr														

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							2Axle	3+Axle	1Trail	2Trail							
90003 Colonial Parkway	From:	James City County Line															
	City of Williamsburg (Maint: US)	3.20	4700	0							0.091	F	0.649	NA			
	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	18000	F	98%	0%	1%	0%	0%	0%	C	0.085	F	0.542	19000	F	2019
			From: Bypass Rd													
			To: Monticello Ave													
(7075) Richmond Rd	0.95	9500	F	97%	0%	2%	0%	0%	0%	C	0.087	F	0.505	10000	F	2019
			From: Armistead Ave													
			To: Henry St South													
(7075) Francis St	0.91	5400	F	99%	0%	1%	0%	0%	0%	C	0.096	F	0.508	5700	F	2019
			From: Waller St													
			To: Richmond Rd													
(7077) Lafayette St	0.12	8900	F	99%	0%	1%	0%	0%	0%	F	0.098	F	0.552	9500	F	2019
			From: Bacon Ave													
			To: Bacon St													
(7077) Lafayette St	0.82	9700	F	99%	0%	1%	0%	0%	0%	F	0.099	F	0.57	10000	F	2019
			From: Henry St													
			To: Page St													
(7079) Second St	0.19	12000	F	98%	0%	1%	0%	0%	0%	F	0.09	F	0.563	13000	F	2019
			From: Parkway Dr													
			To: York County Line													
(7081) Iron Bound Rd	0.57	9400	F	99%	0%	1%	0%	0%	0%	C	0.087	F	0.547	10000	F	2019
			From: James City County Line													
			To: Longhill Rd													
(7081) Iron Bound Rd	0.05	12000	F	99%	0%	1%	0%	0%	0%	F	0.079	F	0.545	13000	F	2019
			From: Richmond Rd													
			To: Ironbound Rd													
(7082) Longhill Rd	0.63	4400	F	99%	0%	1%	0%	0%	0%	C	0.093	F	0.65	4700	F	2019
			From: WCL Williamsburg													
			To: Compton Dr													
(7083) Monticello Ave	0.35	15000	G								0.085	F	0.519	16000	G	2019
			From: Richmond Rd													
			To: Page St													
(7086) Penniman Rd	0.49	3200	F	98%	0%	1%	0%	0%	0%	C	0.087	F	0.668	3400	F	2019
			From: York County Line													
			To: Golf Course Entrance													
Carters Grove Country Rd		390	G	97%	1%	2%	0%	0%	0%	C	0.117	F	0.696	390	G	2019
			From: Williamsburg Avenue													
			To: Jones Mill Lane													
Holly Hills Dr		680	G	99%	1%	1%	0%	0%	0%	C	0.115	F	0.503	680	G	2019
			From: Sir Thomas Lunsford Dr													
			To: Mount Vernon Avenue													
Matoaka Court		940	F								0.103	F	0.735	940	F	2019
			From: Richmond Road													
			To: Piney Creek Dr													
Patrick Henry Dr		590	G	99%	0%	0%	0%	0%	0%	C	0.108	F	0.516	590	G	2019
			From: Waltz Dr													
			To: SR 199													
Quarterpath Rd		990	F								0.098	F	0.644	1100	F	2019
			From: York St													
			To: Williamsburg Avenue													
S England St		2200	F								0.089	F	0.536	2200	F	2019
			From: Francis Street													
			To: Francis Street													