2002

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

where available

Special Locality Report 137

City of Williamsburg

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

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months of Continuous Traffic Data
- Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of 30th Highest 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

North
81 Interstate Route Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.

(29) US Route

7 Virginia State Route

(600) Secondary Route

Special Routes

Bus Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route
ALT 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 2002 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

						City of Williamsburg								
Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail	 2Trail	QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
ity of Williamsburg														
	0.04	04000	_	From:	00/	WCL Williamsburg	00/	_	0.00	_	0.547	00000	•	0000
5 (199)	0.24	21000	G	95%	0%	1% 1% 2%	0%	F	0.08	F	0.547	23000	G	2002
<u> </u>				From:	M	SR 31; SR 199 mintenance Jurisdiction Change								
5 Jamestown Rd	0.26	10000	G	97%	0%	1% 1% 1%	0%	F	0.088	F	0.528	11000	G	2002
5 Jamestown Rd	0.20	10000	G	31 70	0 70	170 170 170	070	•	0.000	•	0.520	11000	O	2002
$\overline{}$				From:		7073 John Tyler Memorial Hw								
5 Jamestown Rd	1.50	11000	G	97 <u>%</u>	0%	1% 1% 1%	0%	С	0.086	F	0.512	12000	G	2002
<u> </u>				To:		137-7075 Boundary St								
Daywada a Ot	0.07	44000	_	From:	00/	Jamestown Rd	00/	_	0.077	_	0.500	40000	0	000
5 Boundary St	0.07	11000	G	97% To:	0%	1% 1% 1%	0%	F	0.077	F	0.532	12000	G	2002
<u> </u>				From:		Francis St Boundary St								
5 Francis St	0.09	8400	G	97%	0%	1% 1% 1%	0%	F	0.080	F	0.554	8800	G	2002
5 Francis St	0.00	0400	•	To:	0 70	SR 132 Henry St	070	'	0.000		0.554	0000	O	2002
				From:		Francis St								
5 Henry St	0.38	6200	G	97%	0%	1% 1% 1%	0%	F	0.090	F	0.580	6400	G	2002
9) 1 , 11				To:		SR 162 Lafayette St								
				From:		SR 132 Henry St								
5 Lafayette St	0.33	12000	G	96%	1%	2% 1% 0%	0%	F	0.085	F	0.576	13000	G	200
				To:		Conital Londing Dd								
- L efevette Ct	0.72	40000	_	From:	10/	Capital Landing Rd	00/	_	0.006	_	0.611	11000		200
5 Lafayette St	0.73	10000	G	96%	1%	2% 1% 0%	0%	С	0.086	F	0.611	11000	G	200
				From:		US 60 Page St								
5) (60) Page Street	0.25	20000	G	97%	1%	2% 0% 1%	0%	С	0.076	F	0.6	21000	G	200
				To		SECOND ST								
5) 60 Page Street	0.31	20000	G	97%	1%	2% 0% 1%	0%	F	0.076	F	0.595	21000	G	200
5 60 Page Street	0.01	20000	Ŭ	01 70	170	270 070 170	070	•	0.070	•	0.000	21000	Ü	200
				From:		US 60 Page St								
5 Capitol Landing Rd	0.62	8200	G	96 <u>%</u>	1%	2% 0% 1%	0%	С	0.089	F	0.606	8500	G	2002
				To:		SR 143 Merrimac St								
				From:		James City County Line								
31) Jamestown Road	0.06	21000	G	97%	0%	1% 0% 1%	0%	F	0.095	F	0.580	22000	G	2002
				To:		SR 199								
				From:		WCL Williamsburg								
Richmond Rd	1.37	22000	G	94%	0%	3% 1% 1%	0%	F	0.078	F	0.548	22000	G	2002
60 Richmond Rd	1.07	22000	J	J+ /0	0 70	370 170 170	070	'	0.070	'	0.540	22000	O	200
~~~				From:		Ironbound Rd	-							
60 Richmond Rd	0.30	31000	G	96 <u>%</u>	1%	2% 1% 1%	0%	С	0.074	F	0.564	33000	G	2002
~				To:		By-pass Rd								
~~~			_	From:		Richmond Rd		_		_			_	
60 Bypass Rd	0.11	28000	G	97%	0%	1% 1% 1%	0%	F	0.074	F	0.502	29000	G	200
~				To: From:		NCL Williamsburg	-							
60 Bypass Rd	0.50	19000	G	96%	1%	2% 1% 1%	0%	С	0.078	F	0.505	20000	G	2002
<i>₩</i>				To:										
Pymasa Dd	0.40	40000	^	From:	40/	Parkway Dr	00/	_	0.070	_	0.500	10000		200
60 Bypass Rd	0.16	18000	G	96% To:	1%	2% 1% 1%	0%	F	0.079	F	0.596	18000	G	200
~				From:		Page Street								
co Page Street	0.31	20000	G	97%	1%	Bypass Rd 2% 0% 1%	0%	F	0.076	F	0.595	21000	G	200
60 Page Street	0.01	20000	3	J1 /0	1 /0		U /0	'	0.070	'	0.000	21000	J	200
~~				From:		Second Street								
60 Page Street	0.25	20000	G	97%	1%	2% 0% 1%	0%	С	0.076	F	0.6	21000	G	200
~				To:		Page Street								
60 York Street	0.60	17000	G	95%	1%	2% 1% 1%	0%	С	0.076	F	0.636	18000	G	200
60 York Street	0.00		•	To:	1 /0	ECL Williamsburg	J /0	9	0.070	•	0.000	10000	9	200
			_	From:		SR 199		_		_			_	
132 Henry St South	1.77	3800	G	96%	0%	2% 1% 1%	0%	С	0.084	F	0.523	3900	G	200
				To:		Ireland Street								
132 Henry St South	0.08	4000	М	From:					NA			NA		2002
132/ Herriy St South												. •• •		
				From:		SR 5	-							
			_	rioiii.				_		_			_	
132 5 Henry St	0.38	6200	G	97%	0%	1% 1% 1% FRANCIS ST	0%	F	0.090	F	0.580	6400	G	2002

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						City of Williams									
Route	Length	AADT	QA	4Tire	Bus	Tr 2Axle 3+Axle		 2Trail	QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
City of Williamsburg							TITION	ZIIGII		Tiodi		1 dotoi			
Honny St North	0.44	7800	G	96%	1%	Lafayette St 2% 0%	0%	0%	С	0.092	F	0.581	9100	G	2002
132 Henry St North	0.44	7000	G	90%	1 70		070	0%	C	0.092	г	0.561	8100	G	2002
N. Honny Ct	0.16	12000		From:	1%	SR 132 Y 2% 0%	0%	00/		0.005	F	0.651	12000		2002
N.Henry St	0.16	12000	G	96%	170	York County Li		0%	F	0.095	Г	0.651	13000	G	2002
NA / -				From:				1							
Wye	0.29	7500	G	97%	1%	Colonial Parkwa 2% 0%	1%	0%	С	0.100	F	0.538	7700	G	2002
132	0.20	7000	Ū	To-	170	SR 132	170	070	J	0.100	•	0.000	7700	Ü	2002
				From:		ECL Williamsbu	ıra	1							
(143) Merrimac Trail	0.90	6200	G	93%	1%	3% 3%	1%	0%	С	0.086	F	0.518	6400	G	2002
143)				To:											
(143) Merrimac Trail	0.37	8900	G	From: 96%	0%	SR 5 Capital Landi	ng Ka 1%	0%	С	0.089	F	0.604	9200	G	2002
143) Werninge Train	0.07	0000	Ū	To:	070	York County Li		70	J	0.000	•	0.004	0200	Ü	2002
				From:		WCL Williamsb		1							
(100)	0.24	21000	G	95%	0%	1% 1%	2%	0%	F	0.08	F	0.547	23000	G	2002
199	V. <u>~</u> .		•	Te:					•	0.00	•	0.0		-	
400	0.07	23000	G	From: 95%	0%	SR 5; SR 31 Jamesto 1% 1%	own Rd 2%	0%	F	0.083	F	0.533	24000	G	2002
199	0.07	23000	G	9070	U 70			U 7/0	F	0.003	r	0.555	Z4000	G	2002
				From:	001	James City County				0.000		0.500	0.4000	<u> </u>	0000
199	0.09	23000	N	95% To:	0%	1% 1%	2%	0%	N	0.083	N	0.533	24000	N	2002
						ECL Williamsbu	ırg								
Dishmand Dd	0.07	22222	_	From:		Bypass Rd				0.004	_	0.500	22000	0	2002
7075 Richmond Rd	0.37	22000	G							0.081	F	0.532	23000	G	2002
				To: From:		Monticello Av									
(7075) Richmond Rd	0.95	13000	G	97%	1%	1% 0%	0%	0%	F	0.084	F	0.536	13000	G	2002
				To: From:		Armistead Ave									
7075) Francis St	0.91	7800	G	97%	1%	Henry St South	0%	0%	С	0.08	F	0.575	8100	G	2002
(7073) 1 1011010 01	0.0.			To:	.,,	Waller St	0,70		Ū	0.00	•	0.0.0	0.00		
				From:		Richmond Rd									
(7077) Lafayette St	0.12	9600	G	97%	1%	1% 0%	0%	0%	F	0.084	F	0.554	9900	G	2002
(ion)				To:		Bacon Ave									
\bigcirc				From:		Bacon St									
(7077) Lafayette St	0.82	12000	G	97%	1%	1% 0%	0%	0%	F	0.086	F	0.516	13000	G	2002
				To:		Henry St									
				From:		Page St									
(7079) Second St	0.19	17000	G	96%	1%	2% 1%	1%	0%	F	0.084	F	0.569	17000	G	2002
				To: From:		Parkway Dr									
(7079) Second St	0.22	18000	G	96%	1%	2% 1%	1%	0%	С	0.083	F	0.577	18000	G	2002
				To:		York County Li	ne								
				From:		James City County	Line								
(7081) Iron Bound Rd	0.57	7500	G	97%	0%	2% 0%	1%	0%	С	0.085	F	0.61	7800	G	2002
				To: From:		Longhill Rd									
(7081) Iron Bound Rd	0.05	12000	G	97%	0%	2% 0%	1%	0%	F	0.079	F	0.559	13000	G	2002
				To:		Richmond Rd									
				From:		Ironbound Rd									
(7082) Longhill Rd	0.63	3800	G	98%	0%	1% 0%	0%	0%	С	0.086	F	0.650	4000	G	2002
				To:		WCL Williamsb	urg								
				From:		Compton Dr									
(7083) Monticello Ave	0.35	14000	G							0.084	F	0.52	14000	G	2002
				To:		Richmond Rd									
$\widehat{}$				From:		Page St									
(7086) Penniman Rd	0.49	2300	G	97%	1%	2% 0%	0%	0%	С	0.099	F	0.783	2400	G	2002
				To-		York County Li	ne								

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Virginia Department of Transportation Mobility Management Division 2002 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Yea
				From:			urse Entra		ZITAII		Tioui		i actor			
Carters Grove Country		NA		To:		William	sburg Ave	2110			NA			NA		
				From:			es Mill Ln	iue	1							
Holly Hills Drive Matoaka Court	NA										NA			NA		
				To:			as Lunsfor									
	1300	1300	G	From:		Mount V	ernon Ave	nue		0.089	F	0.705	1300	G	200	
				To		Richr	nond Road									
Patrick Henry Drive		NA		From:		Piney	Creek Dr				NA			NA		
	INA		To:		W	altz Dr				INA			INA			
Quatrpath Rd	1500			From:		S	SR 199									
		G	To-		Y	ork St				0.150	F		1500	G	200	
S. England Street	eet 240	2400		From:			sburg Ave	nue								
			G							0.098	0.098	F	0.511	2400	G	2002
				10:		Fran	cis Street									

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