#### 2008

# 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

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 Rou	te
(F241)	Frontage Road (F	precedes frontage route number)
(600)	Secondary Route	

#### **Special Routes**

Bus	Bus - Business Route
29	Bypas - Bypass Route
	Truck - Truck Route
ALT	ALT - Alternate Route
(220)	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

## 2008 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

	City of Williamsbui				Tr	ıck			K		Dir		
Jurisdiction	Length AADT Q	A 4Tire	Bus					QC		QK		AAWDT	Q'
From:	WCI Williamshuro			2/\\\\	JTANE	IIIali	ZITAII		i actor		1 actor		
City of Williamsburg (Maint: 47)		96%	0%	1%	1%	2%	0%	F	0.089	F	0.529	38000	(
To:			0,0		. , ,	_,,	0,0	·	0.000	•	0.020	00000	
From:		199											
City of Williamsburg	0.27 <b>11000 G</b>	99%	0%	1%	0%	0%	0%	F	0.088	F	0.680	12000	
To:	137-7073 John Tyler Memor	al Hwy											
City of Williamsburg			0%	1%	0%	0%	0%	С	0.087	F	0.574	13000	
To:			070		070	070	070	Ŭ	0.001	•	0.07 1	10000	
From:	Jamestown Rd												
City of Williamsburg	0.07 <b>10000 G</b>	99%	0%	1%	0%	0%	0%	F	0.082	F	0.505	11000	
To:	Francis St												
From:	Boundary St												
City of Williamsburg	0.09 <b>7000 G</b>	99%	0%	1%	0%	0%	0%	F	0.084	F	0.544	7600	
To:	SR 132 Henry St												
From:								_		_			
City of Williamsburg		99%	0%	1%	0%	0%	0%	F	0.087	F	0.6	5500	
To:													
City of Williamsburg	•	070/	10/	10/	00/	00/	00/	_	0.007	_	0.540	0600	
City of Williamsburg	0.33 6900 6	9770	170	1 70	0%	0%	0%	Г	0.097	Г	0.549	9000	
To: From:	Capital Landing Rd												
City of Williamsburg	0.73 <b>7200 G</b>	97%	1%	1%	0%	0%	0%	С	0.089	F	0.614	7800	
To:	US 60 Page St			<u> </u>									
City of Williamsburg		)							NA			15000	
Tom:									0.000	_	0.504	7400	
City of Williamsburg	0.31 <b>6500 G</b>	ı							0.086	F	0.531	7100	
To- From:	US 60 Page St												
City of Williamsburg	0.62 <b>6600 6</b>	97%	1%	1%	0%	0%	0%	С	0.084	F	0.521	7100	
To:	SR 143 Merrimac St												
From:	WCL Williamsburg												
City of Williamsburg		98%	0%	1%	0%	0%	0%	F	0.092	F	0.566	18000	
, ,													
City of Milliamon have (Mainty 47)		-	00/	40/	00/	00/	00/	_	0.000	_	0.500	40000	
City of Williamsburg (Waint: 47)		98%	0%	1%	0%	0%	0%	г	0.092	г	0.566	18000	
	•												
From:	WCL Williamsburg									_			_
City of Williamsburg	1.37 <b>18000 G</b>	95%	1%	2%	2%	1%	0%	F	0.091	F	0.550	20000	
To- From:	Ironbound Rd			<u> </u>									
City of Williamsburg		98%	1%	1%	0%	0%	0%	С	0.086	F	0.539	27000	
To:	Bypass Rd											-	
From:	Richmond Rd												
	0.44 04000 0	98%	1%	1%	0%	0%	0%	С	0.083	F	0.520	22000	
City of Williamsburg	0.11 <b>21000 G</b>	30 /0	1 /0	1 /0	0 / 0	070	0 / 0	0	0.000		0.020		
City of Williamsburg		9078	170		070	070	070		0.000		0.020		
City of Williamsburg  Too From:  City of Williamsburg	NCL Williamsburg 0.50 13000 G		1%	1%	0%	0%	0%		0.084	· 	0.587	14000	
	City of Williamsburg (Maint: 47)  Totol From:  City of Williamsburg  City of Williamsburg  Totol From:  City of Williamsburg  City of Williamsburg	Jurisdiction   Length   AADT   Quarter	Durisdiction   Length   AADT   QA   4Tire	Durisdiction   Length   AADT   QA   4 Tire   Bus	Durisdiction	Durisdiction	Durisdiction	Durisdiction	Durisdiction	Second St.   Sec	Unisdiction	Jurisdiction	String   S

#### Virginia Department of Transportation Traffic Engineering Division

### 2008 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

-							Tru	ıck			K		Dir	AAWDT	
Route	Jurisdiction	Length AADT	QA	4Tire	Bus		3+Axle		2Trail	QC	Factor	QK	Factor	AAWDT	QW
	From:	Parkway Dr													
60 Bypass Rd	City of Williamsburg	0.16 <b>10000</b>	G	98%	1%	1%	0%	0%	0%	F	0.092	F	0.578	11000	G
	To	SR 5 Capitol Landi	ing Pd												
60 5 Page St	City of Williamsburg	0.31 <b>6500</b>	G								0.086	F	0.531	7100	G
(00) (3) . ago or	2y 2										0.000	•	0.00		
C Dogo St	City of William shurg	Second Street 0.25 <b>14000</b>	t G								NA			15000	G
60 5 Page St	City of Williamsburg	0.25 <b>14000</b> SR 5 Lafayette St; Y									NA			15000	G
	From:	SR 5 Larayette St; 1													
60 York St	City of Williamsburg	0.60 10000	G	97%	1%	1%	1%	0%	0%	С	0.092	F	0.528	11000	G
	To:	ECL Williamsb	urg												
	From:	SR 199													
(132) Henry St South	City of Williamsburg	1.77 3800	G	98%	1%	1%	0%	0%	0%	С	0.095	F	0.506	4200	G
132) 10, 61 666	- F			0070	170		070	070	070	Ŭ	0.000	•	0.000	1200	Ū
Llange St Courth	City of William ob und	Ireland Street		000/	40/	10/	00/	00/	00/	F	0.000		0.600	E 400	
Henry St South	City of Williamsburg	0.08 <b>5000</b>	G	98%	1%	1%	0%	0%	0%	г	0.082	F	0.609	5400	G
	From:	SR 5 Henry St; Fran SR 5	ncis St												
132) 5 Henry St	City of Williamsburg	0.38 <b>5100</b>	G	99%	0%	1%	0%	0%	0%	F	0.087	F	0.6	5500	G
(132) (3)	To:	FRANCIS ST											0.578	0000	_
	From:	Lafayette St													
132 Henry St North	City of Williamsburg	0.44 <b>6900</b>	G	97%	1%	1%	0%	0%	0%	С	0.094	F	0.555	7500	G
$\bigcup$	To	SR 132 Y				<u> </u>									
(132) N.Henry St	City of Williamsburg	0.16 <b>8400</b>	G	97%	1%	1%	0%	0%	0%	F	0.095	F	0.644	9100	G
,	To:	York County Li	ine												
Wye	From	Colonial Parkw													
	City of Williamsburg	0.29 <b>5600</b>	G	98%	1%	1%	0%	0%	0%	С	0.103	F	0.642	6100	G
132	To:	SR 132 N.Henry		0070	170		070	070	070	Ŭ	0.100	•	0.012	0100	Ū
	From:	ECL Williamsb				1									
(143) Merrimac Trail	City of Williamsburg	0.90 <b>7000</b>	G G	97%	1%	1%	0%	0%	0%	С	0.094	F	0.534	7600	G
143) Werlinae Trail	City of Williamsburg			31 70	1 /0	170	070	070	070	O	0.054	•	0.004	7000	O
	To: From:	SR 5 Capital Landi		070/	407		00/	407	00/	_	2 222	_	0.540	2222	_
143 Merrimac Trail	City of Williamsburg	0.37 <b>9100</b>	G	97%	1%	1%	0%	1%	0%	С	0.096	F	0.542	9900	G
	10:	York County Li	ine												
	From:	WCL Williamsb	_							_					_
(199) (5)	City of Williamsburg (Maint: 47)	0.24 <b>34000</b>	G	96%	0%	1%	1%	2%	0%	F	0.089	F	0.529	38000	G
	To- From:	SR 5; SR 31 Jamesto	own Rd			<u> </u>									
199	City of Williamsburg (Maint: 47)	0.07 <b>36000</b>	G	96%	0%	1%	1%	2%	0%	F	0.091	F	0.543	40000	G
$\smile$	То	James City County	/ Line												
100	City of Williamsburg (Maint: 47)	0.09 <b>36000</b>	N N	96%	0%	1%	1%	2%	0%	N	0.091	N	0.543	40000	N
199)	To:	ECL Williamsb		JU /0	070		1 /0	2/0	0 /0	14	0.001	1 4	0.040	70000	14
	Gram					<u>l</u>									
Monticollo Avo	City of Williamsburg (Maint: 47)	47-615 Ironbound	d Rd G	090/	0%	10/	10/	00/	00/	F	0.000	E	0.504	10000	G
321 Monticello Ave	City of Williamsburg (Maint: 47)	0.77 <b>18000</b>	<u> </u>	98%	U%	1%	1%	0%	0%	г	0.088	F	0.304	19000	G
	10.	Compton Dr													

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#### Virginia Department of Transportation Traffic Engineering Division

### 2008 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK Dir Factor	AAWDT	QW
	From:	James	City Count	y Line								
(90003)Colonial Parkway	City of Williamsburg (Maint: US)	3.20	4700	0					NA		NA	
	To:	You	rk County L	ine								

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# Virginia Department of Transportation Traffic Engineering Division 2008 Annual Average Daily Traffic Volume Estimates By Section of Route City of Williamsburg

						O.1., O.	v v illiai i i si	July								
Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
City of Williamsburg																
7075) Richmond Rd	0.37	18000	G	99%	0%	1%	ypass Rd 0%	0%	0%	С	0.086	F	0.569	19000	G	2008
<u> </u>		To: From:					nticello Ave									
7075) Richmond Rd	0.95	12000	G	99%	0%	1%	0%	0%	0%	С	0.085	F	0.587	13000	G	2008
<u> </u>		From:					nistead Ave ry St South									
7075) Francis St	0.91	6500	G	98%	1%	1%	0%	0%	0%	С	0.09	F	0.519	7000	G	2008
7073		To:					Valler St									
		From				Ric	hmond Rd									
7077) Lafayette St	0.12	7600	G	98%	1%	1%	0%	0%	0%	F	0.095	F	0.555	8300	G	2008
		To				Ва	acon Ave									
○ 1 - (	0.00	From:	Ļ_	000/	40/		Bacon St	00/	00/			_	0.50	0700	_	0000
Lafayette St	0.82	9000 To:	G	98%	1%	1%	0%	0%	0%	F	0.095	F	0.53	9700	G	2008
							Henry St									
Conner d Ct	0.40	From:	<u> </u>	0007	001		Page St	001	00/		0.000	_	0.534	4.4000	_	0000
Second St	0.19	13000	G	98%	0%	1%	0%	0%	0%	F	0.089	F	0.574	14000	G	2008
		From:					rkway Dr									
Second St	0.22	14000	G	98%	0%	1%	0%	0%	0%	С	0.091	F	0.571	15000	G	2008
<u> </u>		To:				York	County Lin	ie								
$\sim$		From:					ity County									
7081) Iron Bound Rd	0.57	9300	G	98%	1%	1%	0%	0%	0%	С	0.087	F	0.578	10000	G	2008
		To:				Lo	nghill Rd									
7081) Iron Bound Rd	0.05	12000	G	98%	1%	1%	0%	0%	0%	F	0.086	F	0.542	14000	G	2008
<u> </u>		To:				Ric	hmond Rd									
_		From:				Iron	nbound Rd									
Longhill Rd	0.63	3900	G	98%	1%	1%	0%	0%	0%	С	0.109	F	0.636	4200	G	2008
<u> </u>		To				WCL '	Williamsbu	rg								
		From				Co	mpton Dr									
7083) Monticello Ave	0.35	14000	G								0.086	F	0.501	15000	G	2008
$\bigcup$		To:				Ric	hmond Rd									
		From				]	Page St									
7086) Penniman Rd	0.49	2200	G	99%	0%	0%	0%	0%	0%	С	0.103	F	0.671	2400	G	2008
$\bigcirc$		To:				York	County Lin	ie								
		From				Golf Co	ourse Entra	nce								
Carters Grove Country		390	G								NA			390	G	2008
		To:	<u> </u>			Willian	nsburg Ave	nue								
		From				Jone	s Mill Lane	<b>;</b>								
Holly Hills Dr		680	G								NA			680	G	2008
		To:	<u> </u>			Sir Thon	nas Lunsfor	d Dr								
		From:				Mount V	Vernon Ave	enue								
Matoaka Court		730	G								0.087	F	0.566	730	G	2008
		To:	<u> </u>			Rich	mond Road	l								
		From:				Pine	y Creek Dr									
Patrick Henry Dr		590	G								NA			590	G	2008
		To			-	V	Valtz Dr		-							
		From:				ļ	SR 199									
Quarterpath Rd		670	G								NA			730	G	2008
		To:				1	York St									
		From				Willian	nsburg Ave	nue								
S England St		2300	G								0.097	F		2300	G	2008
		To:				Fra	ncis Street									

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