### 2011

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

where available

## Special Locality Report 171

Town of Bowling Green

Information in this report is included in Report

**16** 

(Caroline 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 Route							
(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

### 2011 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Bowling Green

Parite	lands attention	Laurenth AADT	ADT OA	47	D		Tru	ıck		-00	K	014	Dir	AAMADT	0)4/
Route	Jurisdiction	Length AADT	QA	4Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDT	QW
	From:	SCL Bowling	Green												
2 301 Richmond Tpke	Town of Bowling Green (Maint: 16)	0.11 <b>5700</b>	N	90%	1%	1%	2%	5%	0%	Ν	0.088	Ν	0.587	5800	Ν
	To:	Bus US 30	)1												
Bus	From:	SCL Bowling													
(2)(301) Main St	Town of Bowling Green (Maint: 16)		G	97%	1%	1%	0%	1%	0%	С	0.093	F	0.559	5100	G
	To:	Bus SR 20													
<u> </u>	From:	From: Bus US 301, Bus SR 207										_			_
2 Main St	Town of Bowling Green (Maint: 16)		G	96%	0%	1%	1%	2%	0%	F	0.094	F	0.525	6200	G
<u> </u>	To:	NCL Bowling	Green												
Bus	From:	WCL Bowling	Green												
( <sub>207</sub> )W Broaddus Ave	Town of Bowling Green (Maint: 16)	0.73 <b>4700</b>	G	98%	1%	1%	0%	1%	0%	С	0.088	F	0.55	4800	G
	To:	Bus US 301, SR 2	2 Main St												
	From:	SCL Bowling	Green												
301 2 Richmond Tpke	Town of Bowling Green (Maint: 16)	- U	N	90%	1%	1%	2%	5%	0%	Ν	0.088	Ν	0.587	5800	Ν
(301) (2) (1011111111111111111111111111111111111															
	From:	Bus US 301 M			401										
(301) Richmond Tpke	Town of Bowling Green (Maint: 16)	0.23 <b>5700</b>	N	90%	1%	1%	2%	5%	0%	N	0.088	N	0.587	5800	N
	To- From:	SR 207				_									
(301) Richmond Tpke	Town of Bowling Green (Maint: 16)	1.03 <b>9800</b>	G	92%	0%	1%	1%	5%	0%	F	0.085	F	0.562	9400	G
	To	Bus US 301, Bus SR 20	7.D. 11												
A D LEIL Dlad	Town of Douding Croop (Moint: 16)			92%	0%	1%	1%	5%	0%	F	0.09	F	0.597	10000	G
301 A P Hill Blvd	Town of Bowling Green (Maint: 16)				0%	1%	1%	5%	0%	Г	0.09	Г	0.597	10000	G
		NCL Bowling Green; 16-		vood Rd											
Bus	From:	SCL Bowling													
(301) (2) Main St	Town of Bowling Green (Maint: 16)		G	97%	1%	1%	0%	1%	0%	С	0.093	F	0.559	5100	G
$\sim$ $\sim$	To:	Bus SR 20													
Bus (301)	From:	SR 2 Main													
{ 301 }	Town of Bowling Green (Maint: 16)		G	97%	1%	1%	0%	1%	0%	F	0.098	F	0.646	3200	G
<b>~</b>	To:	ECL Bowling	Green												

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### Virginia Department of Transportation Traffic Engineering Division 2011 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Bowling Green

						Fown of I	Bowling Gree	en_								
Route	Length	AADT	QA	4Tire	Bus		Truck- 3+Axle 1T			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Bowling Green		Fron	.i			NGV D	ı: a				-					
605	0.04	520	G	98%	1%	1%	owling Green 0% 0	%	0%	F	0.125	F	0.605	540	G	2011
(6Q5)	0.0 .	Tr		0070	.,,		2 Main St	,,,	0,0			•	0.000	0.0		
		Fron	1:			ECL B	owling Green									
608 Lakewood Rd	0.01	390	R								NA			NA		10/01/2001
		T- Fron	n:			US 301 E	E, A P Hill Blvd	Į								
608 Lakewood Rd	0.44	<b>60</b>	R			WO P					NA			NA		09/24/2007
		Fron	1:				owling Green									
6 <u>0</u> 8	0.35	150	R				Ĭ				NA			NA		10/01/2001
10		To	00			US 301	BUS WEST									
O		Fron	:			WCL B	Sowling Green				<u> </u>					
619 Milford St	0.55	1500	R								NA			NA		09/24/2007
	0.00	Fron		070/	00/		s US 301	0.1	201				0.540	4.400		2011
619 Chase St	0.06	1400	G	97%	2%	1%	0% 0	%	0%	F	0.086	F	0.512	1400	G	2011
O 01 01	0.00	From		070/	00/		205 Ennis St	0.1	201	_			0.540	700		0011
619 Chase St	0.28	690	G	97%	2%	1%	0% 0 Richmond Tpke	%	0%	С	0.103	F	0.513	700	G	2011
		From	1.								 T					
(1201) Maury Ave	0.48	440	R			10-121	6 Elliotte Dr				NA			NA		09/24/2007
(1201) Maury Ave		To				Bu	s US 301									
		Fron	1:			16-619	Mildford St				Ī					
1202 Anderson Ave	0.21	1100	R								NA			NA		09/24/2007
1h)		Te Fron				SR 207	Broaddus Ave				$\neg$ —					
1202 Anderson Ave	0.08	110	R								NA			NA		09/24/2007
16)		To	00			WCL B	Sowling Green									
O		Fron	1:			Bu	s US 301									
(1203) Davis Ct	0.10	590 T	R			-	15.1				NA			NA		09/24/2007
		Fron	1				ead End									
(1204) Courthouse Lane	0.06	1400	R			Bu	s US 301				NA			NA		08/02/2004
(1204) Courthouse Lane	0.00	1400				1.5.10	05 E . G							IVA		00/02/2004
(1204) Courthouse Lane	0.06	1100	R			16-12	205 Ennis St				NA			NA		09/24/2007
(1204) Courthouse Lane	0.00	T. 100				16.10	20 E : G							1471		00/24/2001
Courthouse Lane	0.15	440 From	R			16-12	29 Travis St				NA			NA		09/24/2007
16	00	Tr				US 301; FR-813										00/2 //2001
		Fron	1:			16-6	19 Chase St									
Ennis St	0.10	300	R								NA			NA		09/24/2007
1111		Te	:				Courthouse Lan	e								
O B # 01	0.44	From				16-6	19 Chase St				$\Box$					00/04/0007
1206 Butler St	0.11	410	R			16 1204 (	Courthouse Lan				NA			NA		09/24/2007
		Fron						3								
(1207) Cary St	0.07	130	R			SCL B	owling Green				NA			NA		08/02/2004
(1207) Cary St		To				Bu	s US 301									
		Fron	n			16-1211 S	, Hoomes Circl	e								
1208 Hoomes Circle	0.07	80	R								NA			NA		08/02/2004
100		To Fron	1			SCL B	owling Green									
1208 Hoomes Circle	0.03	48	R								NA			NA		08/02/2004
		Te	:			16-1211 N	I, Hoomes Circl	e			<u> </u>					
0-11710	0 : 0	Fron				16-61	9 Milford St									00/00/000
(1209) Coghill St	0.13	40	R			7	ead End				NA			NA		08/02/2004
		Fron	1								_					
(1210) Martin St	0.26	150	R			16-61	9 Milford St				NA			NA		09/24/2007
(1210) Martin St	0.20	To	: <u></u>			SR 207	Broaddus Ave									
							-				_					

### Virginia Department of Transportation Traffic Engineering Division 2011 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Bowling Green

						TOWIT OF BOW	iirig Green							
Route	Length	AADT	QA	4Tire	Bus		Truck Axle 1Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Bowling Green		From				16-1208 Hooi	mas Cirola		<del>- i</del>					
(1211) Hoomes Circle	0.10	30	R			10-1208 11001	illes Circle		NA			NA		08/02/2004
16		To From				16-1212 Als	sop Lane							
(1211) Hoomes Circle	0.10	10 From	R				•		NA			NA		08/02/2004
16)		To				16-1208 Hooi	mes Circle							
<u> </u>		From				Dead I	End							
(1212) Alsop Lane	80.0	<b>8</b>	R			16-1211 Hooi	mas Circla		NA			NA		08/02/2004
		From				Dead I			_ <u></u> _					
(1213) Sunset Dr	0.12	70	R			Dead I	Enu		NA			NA		08/02/2004
(1213) Sunset Dr		To				Bus US	301							
		From				16-619 Cl	nase St							
(1214) County St	0.04	80	R						NA			NA		09/24/2007
		То				Dead I								
(1215) White St	0.09	510	R			16-1201 M	Iaury St		 NA			NA		08/02/2004
(1215) White St	0.09	O To	K			16-619 Mi	lford St					INA		00/02/2002
		From				Dead I								
Elliotte Dr	0.03	20	R			Doua			NA			NA		08/02/2004
16		To				16-1201 M	Iaury St							
(1216) Elliotte Dr	0.04	120	R				•		NA			NA		08/02/2004
16)		То				16-619 Mi	lford St							
O		From				Bus US	301							
(1217) Oak Ridge St	0.19	80	R			16 1220 F			NA			NA		09/24/2007
		From				16-1229 T								
(1220) Lafayette Ave	0.26	130	R			Bus US	301		 NA			NA		07/28/2004
(1220) Lafayette Ave	0.20	To				Cul-de-	-Sac		TÌ.					017207200
		From				Dead I	End							
(1221) Dorsey St	0.12	130	R						NA			NA		08/02/2004
16)		To				Bus US	301							
O		From				16-1202 And	erson Ave		<u> </u>					00/00/000
1222 Lee St	0.18	180 To	R			SR 207 Broa	ddus Ava		NA			NA		08/02/2004
		From												
(1227) Gill St	0.21	100	R			Bus US	301		NA			NA		07/28/2004
16		То				Cul-de-	-Sac							
		From				16-1229 T	ravis St							
(1228) Cedar Lane	0.05	60	R						NA			NA		09/24/2007
		То				ECL Bowlin								
	2.00	From	_			16-1204 Court	House Lane							00/04/000
Travis St	0.39	270 To	R			Bus US	201		NA			NA		09/24/2007
		From				16-1217 Oak								
(1231) Virginia Ave	0.16	70	R			10-121 / Oak	Kiuge St		NA			NA		07/28/2004
(1231) Virginia Ave		To				16-1229 T	ravic St							
(1231) Virginia Ave	0.27	100 From	R			10-1229 1	1415 Dt		NA			NA		07/28/2004
Virginia Ave		To				Dead I	End							
		From				SCL Bowlin	ng Green							
(1240) Wagon Wheel Rd	0.04	140	N						NA			NA		08/02/2004
<u> </u>		То				US 301, A P			<u> </u>					
O Manadam I	0.10	From	_			Cul-de-	-Sac					<b>.</b>		00/04/000
(1250) Meadow Lane	0.18	310 To	R			16 (10 (7	anna Ct		NA			NA		09/24/2007
						16-619 Cl	iase St							

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### Virginia Department of Transportation Traffic Engineering Division 2011 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Bowling Green

Route Town of Bowling Green	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
Roper Dr	0.37	200 To	R			16-1250 Meadow Lane		NA			NA		09/24/2007	
	0.20	From <b>70</b>				End of Loop  Dead End		  NA			NA		09/24/2007	
Dickinson Dr	0.20	To				16-1250 Meadow Lane								
9080 16	0.17	<b>210</b>	R			US 301 Bowling Green US 301 Jr High		NA			NA		08/23/2004	

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