2008

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

where available

Special Locality Report 154

Town of Christiansburg

Information in this report is included in Report

60

(Montgomery 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

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Christiansburg

		I own of Chr	istiarisbuit	1			Tru	ıck			K		Dir		
Route	Jurisdiction	Length AAI	OT QA	4Tire	Bus		3+Axle			QC	Factor	QK	Factor	AAWDT	· QI
	From:	SCL Christiansh	ourg Near I-8	1		ZANIC	JTANIC	IIIali	ZIIali		1 actor		i actor		
8 W Main St	Town of Christiansburg (Maint: 60)	0.22 150		96%	1%	1%	1%	1%	0%	F	0.103	F	0.558	16000	(
9	To	Old SCL Chr	ictionchura												
8 W Main St	Town of Christiansburg	0.77 130		96%	1%	1%	1%	1%	0%	С	0.092	F	0.607	14000	(
9)	To:	US 11; Ra					.,.	.,.				•			
	From:	WCL Chris	tiansburg												
11 Radford St	Town of Christiansburg	1.40 110		97%	0%	1%	1%	0%	0%	С	0.102	F	0.521	12000	(
	To:	SR 8 W I													
~	From:	SR 8, Rac		070/	00/		407	00/	00/	_	0.000	_	0.500	0000	
W Main St	Town of Christiansburg	0.30 550	0 G	97%	0%	1%	1%	0%	0%	F	0.089	F	0.502	6000	(
Bus	To: From:	Bus US 460 S	Franklin St												
11) (460) E Main St	Town of Christiansburg	0.12 820	0 G	97%	0%	1%	1%	0%	0%	F	0.084	F	0.601	8900	(
	To	Roanol													
Bus	From:	E Mai		070/	00/		407	00/	00/	_	0.007	_	0.547	40000	
11 460 Roanoke St	Town of Christiansburg	0.11 110	00 G	97%	0%	1%	1%	0%	0%	F	0.087	F	0.517	12000	(
Bus	To: From:	Craig	St												
11) (460) Roanoke St	Town of Christiansburg	0.98 120	00 G	97%	0%	1%	1%	0%	0%	F	0.099	F	0.561	13000	
	To-	SR 111 D	lenot St												
Bus	From:			000/	00/	40/	00/	40/	00/	_	0.400	_	0.004	47000	
11 460 Roanoke St	Town of Christiansburg	0.86 160	00 G	98%	0%	1%	0%	1%	0%	С	0.103	F	0.604	17000	(
~~	To: From:	US 4													
Roanoke St	Town of Christiansburg (Maint: 60)	1.15 160	00 G	96%	1%	1%	1%	1%	0%	С	0.09	F	0.511	18000	(
~ ~~~	To: From:	I-8													
11) (460) Roanoke St	Town of Christiansburg (Maint: 60)	0.09 870	0 N	96%	1%	1%	1%	1%	0%	N	0.099	Ν	0.541	9400	
~ ~	To: From:	Tower Rd, H	ampton Rd												
11) (460) Roanoke St	Town of Christiansburg	2.01 870	0 G	96%	1%	1%	1%	1%	0%	F	0.099	F	0.541	9400	(
~ ~ ·	To:	ECL Christ	tiansburg												
orth	From:	SCL Christ													
1	Town of Christiansburg (Maint: 60)	3.90 230		72%	1%	1%	1%	24%	2%	F	NA			21000	(
	Combined Traffic Estimates for 2 Parallel Roadways or	n this Route: 440	00 G	73%	1%	1%	1%	23%	2%	F	NA			42000	(
orth	To- From:	US 11, U	JS 460												
31)	Town of Christiansburg (Maint: 60)	0.77 230	00 A	72%	1%	1%	1%	23%	2%	С	0.107	Α		23000	
	Combined Traffic Estimates for 2 Parallel Roadways or			74%	1%	1%	1%	22%	2%	С	NA			45000	
	To:	NCL Chris													
outh	From:	SCL Christ	iansburg												
outh 81	Town of Christiansburg (Maint: 60)	4.27 210	00 G	74%	1%	1%	1%	22%	2%	F	NA			21000	(
\mathcal{L}	Combined Traffic Estimates for 2 Parallel Roadways or	n this Route: 440	00 G	73%	1%	1%	1%	23%	2%	F	NA			42000	(
	To:	US 11, U	JS 460												

6/26/2009 7

Virginia Department of Transportation Traffic Engineering Division

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Christiansburg

								Tru	ıck			K		Dir		
Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDT	QV
outh	From:															
31)	· · · · · · · · · · · · · · · · · · ·												Α		22000	Δ
	Combined Traffic Estimates for 2 Parallel Roadways on t				74%	1%	1%	1%	22%	2%	С	NA		0.606 0.556 0.539 0.586 0.577 0.517 0.541 0.541 0.589 0.582 0.582	45000	/
	From	NC		burg												
11)Cambria St	Town of Christianshura	0.79		G	96%	1%	1%	2%	1%	0%	C	0.105	F	0.606	7600	(
11 Joannona ot	- Town or Officialistic	0.75			3070	170		270	170	070	O	0.100	'	0.000	7000	`
11)Cambria St	Town of Christianshura	0.30		G	07%	10/	19/	10/	∩ 0/.	0%		0.114	_	0.556	7000	(
11 Carribria St	To:	0.39			91 /0	1 /0		1 /0	076	076	C	0.114		0.550	7000	,
	From:		Cambria St													
11)Depot St	Town of Christiansburg	0.97	4500	G	97%	1%	1%	1%	1%	0%	F	0.104	F	0.539	4800	•
	To: From:		Park St													
11)Depot St	Town of Christiansburg	0.11	5000	G	97%	1%	1%	1%	1%	0%	С	0.102	F	0.586	5400	(
<i>)</i>	To:	US	11 Roanok	e St												
	From:	WC	L Christians	burg												
14) Peppers Ferry Rd	Town of Christiansburg	1.44	13000	G	98%	0%	1%	1%	1%	0%	С	0.096	F	0.577	14000	
<i></i>	To: From:		Bus US 460)			$=$ \vdash									
14) Peppers Ferry Rd	Town of Christiansburg	0.63	13000	G	97%	0%	1%	1%	1%	0%	С	0.096	F	0.517	14000	
<i></i>	То:		US 460											0.606 0.556 0.539 0.586 0.577 0.517 0.541 0.541 0.589 0.582 0.582 0.501		
~ ~	From:		I-81													
60 (11) Roanoke St	Town of Christiansburg (Maint: 60)	0.09	8700	N	96%	1%	1%	1%	1%	0%	Ν	0.099	Ν	0.541	9400	
~ ~	To: From:	Towe	r Rd, Hampt	on Rd												
60 (11) Roanoke St	Town of Christiansburg	2.01	8700	G	96%	1%	1%	1%	1%	0%	F	0.099	F	0.541	9400	(
<i></i>	То:	ECI	_ Christians	burg												
ius	From:															
N Franklin St	Town of Christiansburg (Maint: 60)	0.97	18000	N	98%	0%	1%	1%	0%	0%	N	0.093	N	0.589	20000	
Bus	To: From:	SR 114	4 Peppers Fo	erry Rd												
N Franklin St	Town of Christiansburg (Maint: 60)	0.66	23000	G	98%	0%	1%	1%	0%	0%	F	NA			24000	(
~	To		110 460													
Bus	From:															
60}	Town of Christiansburg (Maint: 60)	0.18	19000	G								0.090	N	0.582	20000	(
us	To: From:	WC	L Christians	burg												
N Franklin St	Town of Christiansburg (Maint: 60)	0.11	36000	G	98%	0%	1%	1%	0%	0%	F	0.090	F	0.582	39000	(
"	Too	Images for 2 Parallel Roadways on this Route: 4500														
Sus	From:				200/	00/	40/	407	00/	00/	•	0.005	_	0.504	00000	
N Franklin St	Fown of Christiansburg	1.38	26000	G	98%	0%	1%	1%	0%	0%	С	0.088	F	0.501	29000	(
us	To: From:	Christiansburg (Maint: 60) 0.34 22000 A 75% 1% 1% 1% 1% 21% 2% C 0.11														
N Franklin St	Town of Christiansburg	0.28	10000	G	98%	0%	1%	1%	0%	0%	F	0.087	F	0.505	11000	(
~	To:						i i				-					

Virginia Department of Transportation Traffic Engineering Division

2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Christiansburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus		Truck			QC	K	QK	Dir	AAWDT	OW
Noute	Julisalction	Lengui	האטו	чA	41116	Dus	2Axle	3+Axle	1Trail	2Trail	QU	Factor	QIV	Factor	AAWDI	QVV
Bus	From:	U	S 11 Main S	St												
460 (11) E Main St	Town of Christiansburg	0.12	8200	G	97%	0%	1%	1%	0%	0%	F	0.084	F	0.601	8900	G
\bigcirc	То:		Roanoke St													
Bus	From:		E Main St													
(460) (11) Roanoke St	Town of Christiansburg	0.11	11000	G	97%	0%	1%	1%	0%	0%	F	0.087	F	0.517	12000	G
Bus	To: From:		Craig St													
Bus (460) (11) Roanoke St	Town of Christiansburg	0.98	12000	G	97%	0%	1%	1%	0%	0%	F	0.099	F	0.561	13000	G
Dur	To: From:	SR	111 Depot	St												
Bus (460) 11 Roanoke St	Town of Christiansburg	0.86	16000	G	98%	0%	1%	0%	1%	0%	С	0.103	F	0.604	17000	G
\hookrightarrow	To:		US 460													

Virginia Department of Transportation Traffic Engineering Division 2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Christiansburg

					Т	own of Chris	tiansburg								
Route	Length	AADT	QA	4Tire	Bus	2Axle 3+		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Christiansburg		From	:			0.76 MW o	f SCL								
(F60) Flanagan Dr	0.04	280	R							NA			NA		01/30/2008
<u> </u>		To				SR 8 Rine									
(F62) Falling Branch	0.41	From 80	R			Dead E	nd			NA			NA		01/08/2008
(F62) Falling Branch	0.41	То	:			60-640)						1471		01/00/2000
		From				Houchins	Rd								
F63 Brammer Lane	0.24	190	R			D4E	. 1			NA			NA		01/08/200
		From	:			Dead E									
(F856)	0.13	NA				Dead L	Id			NA			NA		
<u> </u>		То	-			Bus US 460, R	ailroad St								
O 5 11 D . 1 D .	0.40	From		200/		40 JB-154 SCL			_				40	_	0000
1 Falling Branch Rd	0.46	40 To	G	99%	0%	0% 0° US 11 Roan		0%	F	NA T			40	G	2008
		From	:		60-6	66 JB-154 WCL		g							
(3500)	0.14	2700	G	99%	0%	0% 0	% 0%	0%	F	0.112	F	0.604	2900	G	2008
<u> </u>		То				SR 8 W Mair									
(3501) S Franklin St	1.21	5700	G	98%	1%	ECL Christia		0%	С	0.103	F	0.702	6100	G	2008
(3501) S Franklin St	1.21	To	Ť	3070	170	Alleghan		070		0.103		0.702	0100	0	2000
0.5 11: 0:	0.57	From	Ļ	200/	407	Allleghan		201			_	0.045	0.400	_	0000
(3501) S Franklin St	0.57	5900 To	G	98%	1%	1% 0° US 460 Ma		0%	F	0.090	F	0.615	6400	G	2008
		From	:			US 11 Ma									
(3502) Phlegar St	0.08	4300	G	99%	0%	1% 0	% 0%	0%	F	0.097	F	0.63	4600	G	2008
		To	<u> </u>			First S Phlegar									
(3502) First St	0.40	5000	G	99%	0%	1% 0		0%	С	0.096	F	0.569	5400	G	2008
<u> </u>		То	:			US 460 Roa	noke St								
(3503) Depot St	0.12	From 8900	G	98%	1%	SR 8 App.		0%	F	0.091	F	0.601	9600	G	2008
(3503) Depot St	0.12	0900	.—	90%	170			0%	Г	0.091	Г	0.601	9600	G	2006
(3503) Depot St	0.14	12000	G	97%	1%	College 1% 1°		0%	F	0.095	F	0.639	13000	G	2008
5505		To	_			US 11 Radf									
(3503) Depot St	0.41	14000	G	97%	1%	1% 19		0%	С	0.091	F	0.543	15000	G	2008
		To From				C7US 4	60			_					
(3503) Depot St	0.91	2800	G	97%	1%	1% 19		0%	F	0.104	F	0.586	3100	G	2008
		To	<u> </u>		S	R 111 Depot St;									
(3504) Park St	0.87	1900	G	99%	0%	E Main 0% 0°		0%	С	0.104	F	0.509	2100	G	2008
0004)		То	:			SR 111 De									
\sim		From				Roanoke									
(3505) E Main St	0.17	2000	G	99%	0%	0% 09	% 0%	0%	F	0.101	F	0.531	2200	G	2008
Main Ct	0.00	From				Park S	t			\supset			NIA		
(3505) Main St	0.60	NA To	-			SR 111 Roar	noke St			NA			NA		
		From	L			SR 111 Cam									
(3506) Ellett Rd	0.39	2500	G	98%	0%	1% 19	% 0%	0%	С	0.1	F	0.571	2700	G	2008
		To	<u> </u>			NCL Christia									
Alleghany St		2200	G			Canaan 1	Rd			0.111	F		2400	G	2008
, mognary ot		2200 To	Ĭ			Miller	St						2-100		2000
		From				Plum S	it								
Church St		470	G			¥7° ~				0.11	F		510	G	2008
		To	<u> </u>			King S	t								

Virginia Department of Transportation Traffic Engineering Division 2008 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Christiansburg

Route	Length A	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Yea
own of Christiansburg																
		From:				Rag	gan Drive									
Clearview Dr		2300	G								0.107	F		2300	G	2008
		To-				Wim	mer Street									
		From:				F	isher St									
Electric Way		430	G								0.187	F		470	G	2008
		To:				Sim	mons Rd									
		From:				Dep	oot Street									
North Dr		260	G								0.118	F		260	G	2008
		To:				E. M	Iain Street									
		From:				Les	ter Street									
Republic Rd		650	G									F		650	G	2008
		To:				Pa	rk Street									
		From:				Ov	erhill Rd									
Ridge Rd		80	G								0.122	F		90	G	2008
-		To:				Dogw	ood Terrac	e								
	·	From:				Briar	wood Drive	;								
Summitridge Rd		660	G								0.095	F		660	G	2008
ŭ		To:				S. Fra	nklin Stree	t								