2016

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

where available

Special Locality Report 300

Town of Smithfield

Information in this report is included in Report

46

(Isle of Wight 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.

1 Trail 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
- 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	

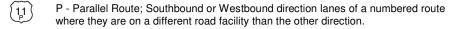
(F241)	Frontage Road (F precedes frontage route number)

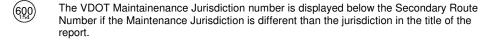
(600) Secondary Route

Special Routes

Bus	Bus - Business Route
[29]	Bypas - Bypass Route
	Truck - Truck Route
ALT	ALT - Alternate Route
(220)	Wve - Wve Route connector

Virginia State Route





Virginia Department of Transportation Traffic Engineering Division 2016 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Smithfield

						Trucl	k			K	Dir		
Route	Jurisdiction	Length AADT Q	A 4Tire	Bus		8+Axle 1			QC	Factor	QK Factor	AAWDT	QW
	From:	NCL Smithfield							_				_
(10)	Town of Smithfield (Maint: 46	,		1%	1%	0%	2%	0%	F	0.094	0.605	11000	G
	From:	US 258 Main St West Main St West											
(10) (258)	Town of Smithfield (Maint: 46		96%	1%	0%	1%	2%	0%	С	0.093	0.551	20000	G
,	Tα	Bus US 258, Bus SR 10 Church	St Couth										
10) (258) Benns Church Blvd	Town of Smithfield (Maint: 46			1%	0%	1%	2%	0%	F	0.091	0.51	32000	G
10 (238) 2000 2000	Tot	,				.,.			-				-
10) (258) Benns Church Blvd	Town of Smithfield (Maint: 46	Old ECL Smithfield 0.65 26000 G	96%	1%	0%	1%	2%	0%	F	0.092	0.524	28000	G
10) 258 Benns Church Blvd	To:	SCL Smithfield	30 70	1 /0		1 /0	2 /0	0 70	į.	0.002	0.524	20000	ч
Bus Bus	From:	SR 10											
Bus 10 258 South Church St	Town of Smithfield (Maint: 46		99%	0%	0%	0%	0%	0%	F	0.095	0.527	16000	G
10) (238) 33411 31141311 31	Town or ormanica (waint: 10	,	0070	070		0 70	0 70	0 70	•	0.000	0.027	10000	ŭ
Bus Bus	From:	Battery Park Rd											
10 (258) South Church St	Town of Smithfield (Maint: 46) 0.79 12000 G	99%	0%	0%	0%	0%	0%	С	0.095	0.564	13000	G
	To	Red Point Dr											
Bus Bus Church St	Town of Smithfield (Maint: 46		i 99%	0%	00/	00/	Λο/	09/	F	0.000	0.569	12000	G
10 258 Church St	Town of Smithled (Maint. 46) 0.79 12000 G Bus SR 258 Smithfield		0%	0%	0%	0%	0%	Г	0.099	0.568	13000	G
Bus	From:	Bus US 258 Main St	1										
North Church St	Town of Smithfield (Maint: 46) 0.85 6400 G	99%	0%	0%	0%	0%	0%	С	0.109	0.649	6800	G
	To	Berry Hill Rd											
Bus	From:	-	200/	00/		00/	00/	00/	_	0.440	0.050	2000	_
(10) North Church St	Town of Smithfield (Maint: 46) 0.43 6500 G NCL Smithfield	99%	0%	0%	0%	0%	0%	F	0.113	0.652	6900	G
Caunthaura Lluni	Towns of Contact of (Mainta 40	WCL Smithfield; 46-709 Water		10/	10/	10/	00/	00/	0	0.00	0.001	0000	_
258 Courthouse Hwy	Town of Smithfield (Maint: 46) 0.27 9300 G	i 95%	1%	1%	1%	3%	0%	С	0.09	0.631	9900	G
~~~	To: From:	Old WCL Smithfield											
(258) Main St	Town of Smithfield (Maint: 46	/	95%	1%	1%	1%	2%	0%	С	0.091	0.535	13000	G
<u> </u>	To: From:	SR 10 Main St											
(258) (10)	Town of Smithfield (Maint: 46		i 96%	1%	0%	1%	2%	0%	С	0.093	0.551	20000	G
(258) (10)	Town of official (Maint: 40	,	0070	1 70	070	1 /0	270	0 70	O	0.000	0.001	20000	ď
Parana Church Blud	Towns of Continued (Mainta 40	Bus US 258	000/	10/	00/	10/	00/	00/		0.001	0.51	00000	
258 10 Benns Church Blvd	Town of Smithfield (Maint: 46	) 0.31 <b>30000 G</b>	96%	1%	0%	1%	2%	0%	F	0.091	0.51	32000	G
~~~	To: From:	Old SCL Smithfield											
(258) (10) Benns Church Blvd	Town of Smithfield (Maint: 46	,		1%	0%	1%	2%	0%	F	0.092	0.524	28000	G
	Τα	SCL Smithfield; 46-644 Tur	ner Dr										
Bus	From:	SR 10 Bypass											
(258) Main St	Town of Smithfield (Maint: 46) 0.20 9000 G	i 99%	0%	0%	0%	0%	0%	F	0.097	0.521	9600	G
Pug	To: From:	Grace Street											
Bus 258 Main St	Town of Smithfield (Maint: 46) 0.10 5800 G	99%	0%	0%	0%	0%	0%	F	0.104	0.503	6100	G
(238) Main St	To:	Cary Street	33/0	U /0	7,0	J /0	J /0	U /0	'	0.104	0.503	0100	u
		Cary Succe											

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Virginia Department of Transportation Traffic Engineering Division 2016

Annual Average Daily Traffic Volume Estimates By Section of Route Town of Smithfield

Route	Jurisdiction	Length AADT QA		QA	4Tire	Bus			ruck		QC	K	QK _ Dir	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail		Factor	Facto	r	
Bus	From:		Cary Street												
(258) Main St	Town of Smithfield (Maint: 46)	0.34	4000	G	99%	0%	0%	0%	0%	0%	F	0.105	0.543	4300	G
	To:	(hurch Stree	t											
Bus Bus	From:		Main Street												
(258) (10) Church St	Town of Smithfield (Maint: 46)	0.79	12000	G	99%	0%	0%	0%	0%	0%	F	0.099	0.568	13000	G
<u> </u>	To	Re	d Point Driv	ve			-								
Bus Bus 258 10 South Church St	Town of Smithfield (Maint: 46)	0.79	12000	G	99%	0%	0%	0%	0%	0%	С	0.095	0.564	13000	G
Bus Bus	To: From:	Bat	tery Park Ro	oad			_								
(258) (10) South Church St	Town of Smithfield (Maint: 46)	0.85	15000	G	99%	0%	0%	0%	0%	0%	F	0.095	0.527	16000	G
\bigcirc	To:	S	R 10 Bypas	S											
ALT	From:		Main St												
(258) Grace St	Town of Smithfield (Maint: 46)	0.14	3600	G	98%	1%	1%	0%	0%	0%	С	0.096	0.564	3800	G
ALT	To: From:		Cary St				<u> </u>								
ALT 258 Grace St	Town of Smithfield (Maint: 46)	0.34	3000	G	98%	0%	1%	0%	0%	0%	С	0.113	0.755	3200	G
\smile	To:	No	orth Church	St											

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Virginia Department of Transportation Traffic Engineering Division 2016 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Smithfield

							0. 0	O.G								
Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Smithfield			,													
(F659) Cedar St	0.44	1800	<u> </u>			SCI	Smithfield				 NA			NA		06/09/200
(F659) Oedai St	0.44	To				Γ	Dead End							IVA		00/09/200
		From					258; 300-640)			i					
(F661) Pole Rd	0.19	140	R			052	250, 500 0 10	,			NA			NA		06/09/200
		To				Ι	Dead End									
		From	1				Main St									
(631) Cary St	0.91	2200	G	99%	0%	0%	0%	0%	0%	С	0.102		0.698	2400	G	2016
		To				Smithfie	eld Corp Lii	nits								
		From					eld Corp Liı									
(640) Great Springs Rd	0.22	1100	G	97%	1%	1%	1%	1%	0%	С	0.117		0.576	1200	G	2016
		To					Main St									
	0.07	From	<u> </u>	000/	00/		h Church St		201				0.504	10000	_	0010
643 Battery Park Rd	0.37	11000 To.	G	99%	0%	0%	0%	0%	0%	С	0.099		0.524	12000	G	2016
			<u> </u>		EC		ield; Kendal	ll Haven								
Berry Hill Rd		From	G			C	Church St				0.104		0.705	4200	G	2016
belly fill hu		3900 _{To:}				Smithfi	eld Corp Lii	mite			0.104		0.705	4200	G	2016
		From						into								
Cedar St		1800	G			Unc	derwood La				0.101		0.504	1900	G	2016
oodar or		To	Ĕ			(Church St						0.001	1000	Ğ	2010
		From					d Point Dr									
Lumar Rd		1600	G								0.105		0.608	1700	G	2016
		To				Мо	onfield Dr									
		From				L	umar Rd									
Moonfield Dr		2200	G								0.107		0.681	2300	G	2016
		To				C	ul-de-Sac									
		From				C	Church St									
Red Point Dr		310	G								0.099		0.639	330	G	2016
		To				L	umar Rd									
		From:				Je	fferson Dr			-						
Ridgeland Dr		190							0.146	0.636		200	G	2016		
			1				Pegan Rd									
Undonwood		From:	<u> </u>			(Cedar St				0.106		0.500	1000	_	2016
Underwood La		1700	G				Main St				0.106		0.589	1800	G	2016
		From	<u> </u>													
Wainwright Dr		600	G			L	umar Rd				0.106		0.531	640	G	2016
waniwiigiii Di		To:				Ĭα	fferson Dr				0.100		0.551	040	G	2010
						JC.	nerson Di									

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