2014
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.

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

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

US Route

Virginia State Route

Frontage Road (F precedes frontage route number)

Secondary Route

Special Routes

Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route

ALT - Alternate Route
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.

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Traffic Engineering Division
2014
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Smithfield

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
10	From: NCL Smithfield Town of Smithfield (Maint: 46) To: US 258 Main St West	0.78	9900	F	96%	1%	1%	0%	2%	0%	F	0.094	F	0.605	11000	F
10 258	From: Main St West Town of Smithfield (Maint: 46) To: Bus US 258, Bus SR 10 Church St South	2.30	18000	F	96%	1%	0%	1%	2%	0%	C	0.093	F	0.551	19000	F
10 258 Benns Church Blvd	From: Town of Smithfield (Maint: 46) To: Old ECL Smithfield	0.31	29000	F	96%	1%	0%	1%	2%	0%	F	0.091	F	0.51	30000	F
10 258 Benns Church Blvd	From: Town of Smithfield (Maint: 46) To: SCL Smithfield	0.65	25000	F	96%	1%	0%	1%	2%	0%	F	0.092	F	0.524	26000	F
Bus Bus 10 258 South Church St	From: SR 10 Town of Smithfield (Maint: 46) To: Battery Park Rd	0.85	14000	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.527	15000	F
Bus Bus 10 258 South Church St	From: Town of Smithfield (Maint: 46) To: Red Point Dr	0.79	12000	F	99%	0%	0%	0%	0%	0%	C	0.095	F	0.564	12000	F
Bus Bus 10 258 Church St	From: Town of Smithfield (Maint: 46) To: Bus SR 258 Smithfield	0.79	12000	F	99%	0%	0%	0%	0%	0%	F	0.099	F	0.568	12000	F
Bus 10 North Church St	From: Bus US 258 Main St Town of Smithfield (Maint: 46) To: Berry Hill Rd	0.85	6100	F	99%	0%	0%	0%	0%	0%	C	0.109	F	0.649	6500	F
Bus 10 North Church St	From: Town of Smithfield (Maint: 46) To: NCL Smithfield	0.43	6200	F	99%	0%	0%	0%	0%	0%	F	0.113	F	0.652	6600	F
258 Courthouse Hwy	From: WCL Smithfield; 46-709 Waterworks Rd Town of Smithfield (Maint: 46) To: Old WCL Smithfield	0.27	8800	F	95%	1%	1%	1%	3%	0%	C	0.09	F	0.631	9400	F
258 Main St	From: Town of Smithfield (Maint: 46) To: SR 10	0.76	12000	F	95%	1%	1%	1%	2%	0%	C	0.091	F	0.535	13000	F
258 10	From: Main St Town of Smithfield (Maint: 46) To: Bus US 258	2.30	18000	F	96%	1%	0%	1%	2%	0%	C	0.093	F	0.551	19000	F
258 10 Benns Church Blvd	From: Town of Smithfield (Maint: 46) To: Old SCL Smithfield	0.31	29000	F	96%	1%	0%	1%	2%	0%	F	0.091	F	0.51	30000	F
258 10 Benns Church Blvd	From: Town of Smithfield (Maint: 46) To: SCL Smithfield; 46-644 Turner Dr	0.65	25000	F	96%	1%	0%	1%	2%	0%	F	0.092	F	0.524	26000	F
Bus 258 Main St	From: SR 10 Bypass Town of Smithfield (Maint: 46) To: Grace Street	0.20	8500	F	99%	0%	0%	0%	0%	0%	F	0.097	F	0.521	9100	F
Bus 258 Main St	From: Town of Smithfield (Maint: 46) To: Cary Street	0.10	5400	F	99%	0%	0%	0%	0%	0%	F	0.104	F	0.503	5800	F

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Bus 258 Main St	Town of Smithfield (Maint: 46)	From: Cary Street	0.34	**3800**	**F**	99%	0%	0%	0%	0%	0%	F	0.105	F	0.543	4100	F
		To: Church Street															
Bus 258 Bus 10 Church St	Town of Smithfield (Maint: 46)	From: Main Street	0.79	**12000**	**F**	99%	0%	0%	0%	0%	0%	F	0.099	F	0.568	12000	F
		To: Red Point Drive															
Bus 258 Bus 10 South Church St	Town of Smithfield (Maint: 46)	From: Battery Park Road	0.79	**12000**	**F**	99%	0%	0%	0%	0%	0%	C	0.095	F	0.564	12000	F
		To: SR 10 Bypass															
Bus 258 Bus 10 South Church St	Town of Smithfield (Maint: 46)	From: Main St	0.85	**14000**	**F**	99%	0%	0%	0%	0%	0%	F	0.095	F	0.527	15000	F
		To: Cary St															
ALT 258 Grace St	Town of Smithfield (Maint: 46)	From: Cary St	0.14	**3400**	**F**	98%	1%	1%	0%	0%	0%	C	0.096	F	0.564	3600	F
		To: North Church St															
ALT 258 Grace St	Town of Smithfield (Maint: 46)	From: Main St	0.34	**2800**	**F**	98%	0%	1%	0%	0%	0%	C	0.113	F	0.755	3000	F
		To: Cary Street															

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Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Smithfield																
F659 Cedar St	0.44	**1800**	**R**								NA			NA		06/09/2008
From: SCL Smithfield																
To: Dead End																
F661 Pole Rd	0.19	**140**	**R**								NA			NA		06/09/2008
From: US 258; 300-640																
To: Dead End																
631 Cary St	0.91	**2100**	**F**	99%	0%	0%	0%	0%	0%	C	0.102	F	0.698	2200	F	2014
From: Main St																
To: Smithfield Corp Limits																
640 Great Springs Rd	0.22	**1100**	**F**	97%	1%	1%	1%	1%	0%	C	0.117	F	0.576	1100	F	2014
From: Smithfield Corp Limits																
To: Main St																
643 Battery Park Rd	0.37	**10000**	**F**	99%	0%	0%	0%	0%	0%	C	0.099	F	0.524	11000	F	2014
From: South Church St																
To: ECL Smithfield; Kendall Haven																
Berry Hill Rd		**3800**	**G**								NA			4200	G	2014
From: Church St																
To: Smithfield Corp Limits																
Cedar St		**1700**	**F**								0.101	F	0.504	1800	F	2014
From: Underwood La																
To: Church St																
Lumar Rd		**1500**	**F**								0.105	F	0.608	1600	F	2014
From: Red Point Dr																
To: Moonfield Dr																
Moonfield Dr		**2100**	**F**								0.107	F	0.681	2200	F	2014
From: Lumar Rd																
To: Cul-de-Sac																
Red Point Dr		**290**	**F**								0.099	F	0.639	310	F	2014
From: Church St																
To: Lumar Rd																
Ridgeland Dr		**180**	**F**								0.146	F	0.636	190	F	2014
From: Jefferson Dr																
To: Pegan Rd																
Underwood La		**1600**	**F**								0.106	F	0.589	1700	F	2014
From: Cedar St																
To: Main St																
Wainwright Dr		**570**	**F**								0.106	F	0.531	610	F	2014
From: Lumar Rd																
To: Jefferson Dr																