2014
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
204

Town of Culpeper

Information in this report is included in Report

23

(Culpeper 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.

Virginia Department of Transportation
Traffic Engineering Division
2014
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Culpeper

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
3 522 Germanna Hwy	From: BUS US 15 Orange Road Town of Culpeper To: ECL Culpeper	0.96	**8800**	**F**	94%	1%	1%	2%	2%	0%	F	0.086	F	0.505	9300	F
Bus 15 Orange Rd	From: SCL Culpeper Town of Culpeper To: US 522 Germanna Hwy	1.32	**8000**	**F**	96%	1%	1%	2%	0%	0%	C	0.086	F	0.515	8500	F
Bus 15 522 Germanna Highway	From: Germanna Highway Town of Culpeper To: Main Street S	0.12	**5700**	**F**	97%	1%	1%	1%	1%	0%	C	0.09	F	0.583	6000	F
Bus 15 Bus 29 522 Main St	From: Germanna Highway Town of Culpeper To: 204-3651 Orange Rd	0.26	**11000**	**F**	97%	1%	1%	1%	1%	0%	C	0.078	F	0.514	12000	F
Bus 15 Bus 29 522 Main St	From: 204-3651 Orange Rd Town of Culpeper To: US 522 Evans Street	0.59	**17000**	**F**	97%	1%	1%	1%	1%	0%	F	0.075	F	0.571	18000	F
Bus 15 Bus 29 Main St	From: US 522 Evans Street Town of Culpeper To: Begin SR 229	0.20	**27000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			28000	G
Bus 15 Bus 29 229 Main St	From: Begin SR 229 Town of Culpeper To: SR 229, Madison Hwy	0.06	**27000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			28000	G
Bus 15 Bus 29 Madison Highway	From: SR 229, Main St Town of Culpeper To: Nottingham Street	0.22	**21000**	**G**	98%	0%	1%	0%	1%	0%	C	NA			22000	G
Bus 15 Bus 29 Madison Highway	From: Nottingham Street Town of Culpeper To: NCL Culpeper	0.91	**22000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			23000	G
Bus 29 Madison Rd	From: SCL Culpeper Town of Culpeper To: West Street	1.27	**15000**	**F**	98%	0%	1%	0%	0%	0%	C	0.089	F	0.557	16000	F
Bus 29 Madison Rd	From: West Street Town of Culpeper To: US 522, Bus US 15 Fredericksburg Rd	0.12	**13000**	**F**	98%	0%	1%	0%	1%	0%	F	0.079	F	0.512	14000	F
Bus 29 Bus 15 522 Main St	From: US 15 BUS Town of Culpeper To: 204-3651 Orange Rd	0.26	**11000**	**F**	97%	1%	1%	1%	1%	0%	C	0.078	F	0.514	12000	F
Bus 29 Bus 15 522 Main St	From: 204-3651 Orange Rd Town of Culpeper To: US 522 EVANS STREET	0.59	**17000**	**F**	97%	1%	1%	1%	1%	0%	F	0.075	F	0.571	18000	F
Bus 29 Bus 15 Main St	From: US 522 EVANS STREET Town of Culpeper To: Begin SR 229	0.20	**27000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			28000	G
Bus 29 Bus 15 229 Main St	From: Begin SR 229 Town of Culpeper To: SR 229, Madison Hwy	0.06	**27000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			28000	G

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Route	Jurisdiction		Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
Bus 29 Bus 15 Madison Highway	Town of Culpeper	From: SR 229, Main St	0.22	**21000**	**G**	98%	0%	1%	0%	1%	0%	C	NA			22000	G
		To: NOTTINGHAM STREET															
Bus 29 Bus 15 Madison Highway	Town of Culpeper	From: NOTTINGHAM STREET	0.91	**22000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			23000	G
		To: NCL CULPEPER															
229 Bus 15 Bus 29 Main St	Town of Culpeper	From: Begin SR 229	0.06	**27000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			28000	G
		To: US 15 Bus															
229 Main St	Town of Culpeper	From: US 15 Bus	0.93	**9000**	**G**	95%	2%	1%	1%	0%	0%	C	NA			9500	G
		To: NCL Culpeper															
522 3 Germanna Hwy	Town of Culpeper	From: ECL Culpeper	0.96	**8800**	**F**	94%	1%	1%	2%	2%	0%	F	0.086	F	0.505	9300	F
		To: US 15 Bus Orange Road															
522 Bus 15 Germanna Highway	Town of Culpeper	From: RT 15 BUS	0.12	**5700**	**F**	97%	1%	1%	1%	1%	0%	C	0.09	F	0.583	6000	F
		To: MAIN STREET S															
522 Bus 15 Bus 29 Main St	Town of Culpeper	From: Germanna Hwy	0.26	**11000**	**F**	97%	1%	1%	1%	1%	0%	C	0.078	F	0.514	12000	F
		To: 204-3651 Orange Rd															
522 Bus 15 Bus 29 Main St	Town of Culpeper	From: 204-3651 Orange Rd	0.59	**17000**	**F**	97%	1%	1%	1%	1%	0%	F	0.075	F	0.571	18000	F
		To: Evans St															
522 Evans St	Town of Culpeper	From: Bus US 15, Bus US 29 Main St	0.08	**12000**	**F**	97%	1%	1%	1%	1%	0%	F	0.081	F	0.657	13000	F
		To: N West St															
522 Evans St	Town of Culpeper	From: N West Street	1.44	**11000**	**F**	97%	1%	1%	1%	1%	0%	C	0.081	F	0.566	12000	F
		To: WCL Culpeper															

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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 Culpeper																
(1) West St/Old Rixeyville Rd	0.82	**3600**	**G**	98%	1%	1%	0%	0%	0%	C	NA			3800	G	2014
From: Evans Street																
To: Grandview Avenue																
(1) Old Rixeyville Rd	0.07	**1500**	**G**	98%	1%	1%	0%	0%	0%	F	NA			1600	G	2014
From: Grandview Avenue																
To: Main Street N																
(3651) Orange Rd	0.33	**6200**	**F**	93%	1%	1%	4%	1%	0%	C	0.088	F	0.578	6600	F	2014
From: Germanna Highway																
To: Main Street																
(3652) Chandler St	0.08	**750**	**F**	97%	0%	1%	1%	1%	0%	F	0.093	F	0.722	800	F	2014
From: West Street																
To: Bus US 15																
(3652) Chandler St	0.09	**960**	**N**	97%	0%	1%	1%	1%	0%	N	0.099	N	0.587	1000	N	2014
From: Bus US 15																
To: East Street																
(3652) Chandler St	0.75	**960**	**F**	97%	0%	1%	1%	1%	0%	C	0.099	F	0.587	1000	F	2014
From: East Street																
To: ECL Culpeper																
(3653) Laurel St	0.84	**2200**	**F**	97%	0%	1%	1%	0%	0%	C	0.082	F	0.609	2300	F	2014
From: Orange Road																
To: Madison Road																
(3656) Piedmont St	0.27	**4400**	**G**	99%	0%	1%	0%	0%	0%	F	NA			4700	G	2014
From: US 15 Bus Main Street N																
To: Old Brandy Road																
(3656) Old Brandy Rd	0.20	**4500**	**G**	99%	0%	1%	0%	0%	0%	C	NA			4800	G	2014
From: Piedmont St																
To: Wine St																
(3656) Old Brandy Rd	0.56	**4200**	**G**	99%	0%	1%	0%	0%	0%	F	NA			4500	G	2014
From: Wine Street																
To: US 15 Bus James Madison Hwy																
(3657) West St	0.91	**4200**	**F**	100%	0%	0%	0%	0%	0%	C	0.098	F	0.609	4500	F	2014
From: Madison Street																
To: Evans Street																
Bus US 15; Bus US 29		**21000**	**G**	97%	1%	1%	0%	1%	0%	C	NA			21000	G	2014
From: Nalles Mill Rd																
To: Ira Hoffman Ln																
Cameron St		**520**	**F**								0.187	F	0.646	550	F	2014
From: Blue Ridge Ave																
To: US 29 Bus S Main St																
East St		**5100**	**G**								NA			5100	G	2014
From: Walter Street																
To: Mason Street																
Fairview Rd		**260**	**G**								NA			280	G	2014
From: SR 229 Main St																
To: Hendrick St																
Madison Rd		**20000**	**G**	98%	0%	1%	0%	1%	0%	C	NA			20000	G	2014
From: Saunders St																
To: Oak Lawn Dr																
S Blue Ridge Ave		**4200**	**G**	100%	0%	0%	0%	0%	0%	C	NA			4200	G	2014
From: Oak Lawn Blvd																
To: Spring St																
S East St		**5800**	**G**	97%	0%	1%	1%	1%	0%	C	NA			5800	G	2014
From: E Chandler St																
To: E Locust St																
Sperryville Pike		**7700**	**G**	96%	1%	1%	1%	1%	0%	C	NA			7700	G	2014
From: WCL Culpeper																
To: Wayland Rd																
SR 3		**10000**	**G**	96%	1%	1%	1%	2%	0%	C	NA			10000	G	2014
From: Industry Dr																
To: McDevitt Dr																

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						2Axle	3+Axle	1Trail	2Trail							
Town of Culpeper																
		From:	Madison Rd													
Sunset Lane		**5300**	**G**	99%	1%	0%	0%	0%	0%	C	NA			5300	G	2014
		To:	Redbud St													
		From:	Sperryville Pike													
Virginia Avenue		**5100**	**G**								NA			5100	G	2014
		To:	First Street													