

**2019**  
**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.

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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 Interstate Route Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
-  US Route
-  7 Virginia State Route
-  F241 Frontage Road (F precedes frontage route number)
-  600 Secondary Route

## Special Routes

-  Bus 29 Bus - Business Route
-  Bypass - Bypass Route
-  Truck - Truck Route
-  ALT - Alternate Route
-  Wve - Wve Route connector
-  11 P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
-  600 154 The VDOT Maintenance 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  
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2019  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Culpeper

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
From: BUS US 15 Orange Road																
3 522 Germanna Hwy	Town of Culpeper	0.96	8600	G	96%	0%	1%	1%	2%	0%	F	0.093	F	0.532	9100	G
To: ECL Culpeper																
From: SCL Culpeper																
Bus 15 Orange Rd	Town of Culpeper	1.32	7500	G	98%	0%	1%	1%	0%	0%	C	0.090	F	0.559	7900	G
To: US 522 Germanna Hwy																
From: US 522 Germanna Hwy																
Bus 15 522 Germanna Highway	Town of Culpeper	0.12	5200	G	97%	0%	1%	0%	1%	0%	C	0.092	F	0.538	5500	G
To: Main Street S																
From: Germanna Highway																
Bus 15 29 522 Main St	Town of Culpeper	0.26	11000	G	98%	0%	1%	0%	1%	0%	C	0.077	F	0.526	12000	G
To: 204-3651 Orange Rd																
From: 204-3651 Orange Rd																
Bus 15 29 522 Main St	Town of Culpeper	0.59	17000	G	98%	0%	1%	0%	1%	0%	F	0.077	F	0.526	18000	G
To: US 522 Evans Street																
From: US 522 Evans Street																
Bus 15 29 Main St	Town of Culpeper	0.20	17000	G	97%	0%	1%	0%	1%	0%	C	0.075	F	0.541	18000	G
To: Begin SR 229																
From: Begin SR 229																
Bus 15 29 229 Main St	Town of Culpeper	0.06	17000	G	97%	0%	1%	0%	1%	0%	C	0.075	F	0.541	18000	G
To: SR 229, Madison Hwy																
From: SR 229, Madison Hwy																
Bus 15 29 Madison Highway	Town of Culpeper	0.22	21000	G	98%	0%	1%	0%	0%	0%	C	0.082	F	0.547	22000	G
To: Nottingham Street																
From: Nottingham Street																
Bus 15 29 Madison Highway	Town of Culpeper	0.91	22000	G	98%	0%	1%	0%	0%	0%	C	0.083	F	0.537	23000	G
To: NCL Culpeper																
From: NCL Culpeper																
From: SCL Culpeper																
Bus 29 Madison Rd	Town of Culpeper	1.27	18000	G	98%	0%	1%	0%	0%	0%	C	0.086	F	0.511	19000	G
To: West Street																
From: West Street																
Bus 29 Madison Rd	Town of Culpeper	0.12	13000	G	98%	0%	1%	0%	1%	0%	F	0.083	F	0.524	14000	G
To: US 522, Bus US 15 Fredericksburg Rd																
From: US 522, Bus US 15 Fredericksburg Rd																
Bus 29 15 522 Main St	Town of Culpeper	0.26	11000	G	98%	0%	1%	0%	1%	0%	C	0.077	F	0.526	12000	G
To: 204-3651 Orange Rd																
From: 204-3651 Orange Rd																
Bus 29 15 522 Main St	Town of Culpeper	0.59	17000	G	98%	0%	1%	0%	1%	0%	F	0.077	F	0.526	18000	G
To: US 522 EVANS STREET																
From: US 522 EVANS STREET																
Bus 29 15 Main St	Town of Culpeper	0.20	17000	G	97%	0%	1%	0%	1%	0%	C	0.075	F	0.541	18000	G
To: Begin SR 229																
From: Begin SR 229																
Bus 29 15 229 Main St	Town of Culpeper	0.06	17000	G	97%	0%	1%	0%	1%	0%	C	0.075	F	0.541	18000	G
To: SR 229, Madison Hwy																

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Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
From: SR 229, Main St Bus 29 Bus 15 Madison Highway	Town of Culpeper	0.22	21000	G	98%	0%	1%	0%	0%	0%	C	0.082	F	0.547	22000	G
To: NOTTINGHAM STREET																
From: NCL CULPEPER																
From: Begin SR 229 Bus 229 Bus 15 Bus 29 Main St	Town of Culpeper	0.06	17000	G	97%	0%	1%	0%	1%	0%	C	0.075	F	0.541	18000	G
To: US 15 Bus																
From: US 15 Bus	Town of Culpeper	0.93	8000	G	97%	2%	1%	0%	0%	0%	C	0.099	F	0.521	8500	G
To: NCL Culpeper																
From: ECL Culpeper																
From: US 15 Bus Orange Road 522 3 Germanna Hwy	Town of Culpeper	0.96	8600	G	96%	0%	1%	1%	2%	0%	F	0.093	F	0.532	9100	G
To: US 15 Bus Orange Road																
From: RT 15 BUS																
From: MAIN STREET S 522 15 Germanna Highway	Town of Culpeper	0.12	5200	G	97%	0%	1%	0%	1%	0%	C	0.092	F	0.538	5500	G
To: MAIN STREET S																
From: Germanna Hwy 522 15 Bus 29 Main St	Town of Culpeper	0.26	11000	G	98%	0%	1%	0%	1%	0%	C	0.077	F	0.526	12000	G
To: 204-3651 Orange Rd																
From: 204-3651 Orange Rd 522 15 Bus 29 Main St	Town of Culpeper	0.59	17000	G	98%	0%	1%	0%	1%	0%	F	0.077	F	0.526	18000	G
To: Evans St																
From: Bus US 15, Bus US 29 Main St 522 Evans St	Town of Culpeper	0.08	6900	G	98%	0%	1%	0%	1%	0%	F	0.086	F	0.552	7300	G
To: N West St																
From: N West Street 522 Evans St	Town of Culpeper	1.44	10000	G	98%	0%	1%	0%	1%	0%	C	0.088	F	0.617	11000	G
To: WCL Culpeper																



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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Culpeper</b>																
(1) West St/Old Rixeyville Rd	0.82	2300	G	99%	0%	0%	0%	0%	0%	C	0.094	F	0.504	2400	G	2019
			From: Evans Street													
			To: Grandview Avenue													
(1) Old Rixeyville Rd	0.07	1800	G	99%	0%	0%	0%	0%	0%	F	0.136	F		1900	G	2019
			From: Main Street N													
(3651) Orange Rd	0.33	6400	G	96%	1%	1%	1%	1%	0%	C	0.079	F	0.522	6800	G	2019
			From: Germanna Highway													
			To: Main Street													
(3652) Chandler St	0.08	730	G	99%	0%	1%	0%	0%	0%	C	0.107	F	0.56	780	G	2019
			From: West Street													
(3652) Chandler St	0.09	1100	G	97%	1%	1%	1%	0%	0%	F	0.099	F	0.526	1200	G	2019
			From: Bus US 15													
(3652) Chandler St	0.75	900	G	97%	1%	1%	1%	0%	0%	C	0.086	F	0.518	950	G	2019
			From: East Street													
			To: ECL Culpeper													
(3653) Laurel St	0.84	2100	G	96%	1%	3%	0%	0%	0%	C	0.08	F	0.529	2200	G	2019
			From: Orange Road													
			To: Madison Road													
(3656) Piedmont St	0.27	4400	G	99%	0%	1%	0%	0%	0%	F	0.09	F	0.549	4600	G	2019
			From: US 15 Bus Main Street N													
			To: Old Brandy Road													
(3656) Old Brandy Rd	0.20	5300	G	99%	0%	1%	0%	0%	0%	C	0.088	F	0.52	5600	G	2019
			From: Piedmont St													
			To: Wine St													
(3656) Old Brandy Rd	0.56	4500	G	99%	0%	1%	0%	0%	0%	F	0.092	F	0.547	4700	G	2019
			From: Wine Street													
			To: US 15 Bus James Madison Hwy													
(3657) West St	0.91	3700	G	100%	0%	0%	0%	0%	0%	C	0.113	F	0.571	3900	G	2019
			From: Madison Street													
			To: Evans Street													
Bus US 15; Bus US 29		23000	G	97%	1%	1%	0%	1%	0%	C	0.078	F	0.523	23000	G	2019
			From: Nalles Mill Rd													
			To: Ira Hoffman Ln													
Cameron St		420	G								0.141	F	0.664	440	G	2019
			From: Blue Ridge Ave													
			To: US 29 Bus S Main St													
East St		4800	G								0.103	F	0.514	4800	G	2019
			From: Walter Street													
			To: Mason Street													
Fairview Rd		240	G								0.099	F	0.593	260	G	2019
			From: SR 229 Main St													
			To: Hendrick St													
Madison Rd		23000	G	98%	0%	1%	0%	1%	0%	C	0.084	F	0.510	23000	G	2019
			From: Saunders St													
			To: Oak Lawn Dr													
S Blue Ridge Ave		4800	G	100%	0%	0%	0%	0%	0%	C	0.088	F	0.781	4800	G	2019
			From: Oak Lawn Blvd													
			To: Spring St													
S East St		6600	G	97%	0%	1%	1%	1%	0%	C	0.096	F	0.513	6600	G	2019
			From: E Chandler St													
			To: E Locust St													
Sperryville Pike		8600	G	96%	1%	1%	1%	1%	0%	C	0.083	F	0.599	8600	G	2019
			From: WCL Culpeper													
			To: Wayland Rd													
SR 3		12000	G	96%	1%	1%	1%	2%	0%	C	0.087	F	0.537	12000	G	2019
			From: Industry Dr													
			To: McDevitt Dr													

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						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Culpeper</b>																
Sunset Lane		6000	G	99%	1%	From Madison Rd				C	0.095	F	0.579	6000	G	2019
						To Redbud St										
Virginia Avenue		5500	G			From Sperryville Pike				0.088	F	0.607	5500	G	2019	
						To First Street										