### 2015

# 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.

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

Virginia State 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 2015

#### Annual Average Daily Traffic Volume Estimates By Section of Route Town of Culpeper

					_		Tru	ck			K	Dir		
Route	Jurisdiction	Length <b>AADT</b> (	<b>QA</b> 47	Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK Factor	AAWDT	QV
	From:	BUS US 15 Orange R												_
3 522 Germanna Hwy	Town of Culpeper		<b>G</b> 94	14%	1%	1%	2%	2%	0%	F	0.086	0.505	9700	G
	Farm	ECL Culpeper												
Bus 15 Orange Rd	Town of Culpeper	SCL Culpeper 1.32 <b>8300</b>	<b>G</b> 96	6%	1%	1%	2%	0%	0%	С	0.086	0.515	8800	G
15) Crange Hu	Town of Guipeper			70 70	1 /0	1 70	270	0 70	0 70	O	0.000	0.515	0000	
Bus	From:	US 522 Germanna H												
(522) Germanna Highway	Town of Culpeper		<b>G</b> 9	7%	1%	1%	1%	1%	0%	С	0.09	0.583	6300	G
tus Bus	To: From:	Main Street S Germanna Highwa	nv											
15) (29) (522) Main St	Town of Culpeper			7%	1%	1%	1%	1%	0%	С	0.075	0.571	12000	(
$\rightarrow \bigcirc \bigcirc$	To	204-3651 Orange R	Rd.											
Bus Bus Main St	Town of Culpeper			7%	1%	1%	1%	1%	0%	F	0.075	0.571	19000	(
15 (29) (522) Main St	Town of Culpeper		-	17 70	1 70	1 70	170	1 70	0%	г	0.075	0.571	19000	
Bus Bus	To: From:	US 522 Evans Stree	eet											
15) (29) Main St	Town of Culpeper	0.20 <b>18000</b>	<b>F</b> 97	7%	1%	1%	0%	1%	0%	С	0.077	0.597	19000	F
dus Bus	To: From:	Begin SR 229												
15) (29) (229) Main St	Town of Culpeper	0.06 <b>18000</b>	<b>F</b> 9	7%	1%	1%	0%	1%	0%	С	0.077	0.597	19000	F
$\rightarrow \bigcirc \bigcirc$	To:	SR 229, Madison Hy												
Bus Bus	From:	SR 229, Main St												
15) (29) Madison Highway	Town of Culpeper	0.22 <b>21000</b>	F 98	8%	0%	1%	0%	1%	0%	С	0.082	0.512	22000	F
Bus Bus	To: From:	Nottingham Street	t											
15 (29) Madison Highway	Town of Culpeper	0.91 <b>23000</b>	<b>F</b> 98	8%	0%	1%	0%	1%	0%	С	0.081	0.539	24000	F
$\rightarrow$	To:	NCL Culpeper												
us .	From:	SCL Culpeper												
Madison Rd	Town of Culpeper	1.27 <b>16000</b>	<b>G</b> 98	8%	0%	1%	0%	0%	0%	С	0.089	0.557	17000	(
Bus	To: From:	West Street												
29 Madison Rd	Town of Culpeper	0.12 <b>14000</b>	<b>G</b> 98	8%	0%	1%	0%	1%	0%	F	0.079	0.512	15000	(
~	То:	US 522, Bus US 15 Frederic	cksburg R	Rd										
Bus Bus	Town of Culpeper	US 15 BUS 0.26 <b>12000</b>	<b>G</b> 9	70/	1%	1%	1%	1%	0%	С	0.075	0.571	12000	_
29 (15) (522) Main St	Town of Culpeper			7%	170	1%	1%	170	0%	C	0.075	0.571	12000	C
Bus Bus	To: From:	204-3651 Orange R	Rd											
29 \ (15 ) (522 ) Main St	Town of Culpeper	0.59 <b>18000</b>	<b>G</b> 97	7%	1%	1%	1%	1%	0%	F	0.075	0.571	19000	C
Dura Bura	To	US 522 EVANS STR	EET											
Bus Bus (15) Main St	Town of Culpeper			7%	1%	1%	0%	1%	0%	С	0.077	0.597	19000	F
(13) 31	т.		- 0	. ,0	. , ,		0 /0	. , ,	0 / 0	J	5.5.7	0.007	10000	
Bus Bus	From:	Begin SR 229												
29) (15) (229) Main St	Town of Culpeper			7%	1%	1%	0%	1%	0%	С	0.077	0.597	19000	F
~ ~ ~	To:	SR 229, Madison Hy	wy											

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#### Virginia Department of Transportation Traffic Engineering Division 2015

#### Annual Average Daily Traffic Volume Estimates By Section of Route Town of Culpeper

Route	Jurisdiction	Length AAD1	ADT QA	4Tire	Pug		Truck			QC	K	QK _ Dir	AAWDT	OW
noute	Julisdiction	Length AAD	I QA		Dus	2Axle	3+Axle	1Trail	2Trail	QU	Factor	Factor	AAWDI	QVV
Bus Bus	From:	SR 229, Ma	ain St											
(29) $(15)$ Madison Highway	Town of Culpeper	0.22 <b>2100</b> 0	) F	98%	0%	1%	0%	1%	0%	С	0.082	0.512	22000	F
Bus Bus	To: From:	NOTTINGHAM	I STREET											
29 15 Madison Highway	Town of Culpeper	0.91 <b>2300</b> 0	) F	98%	0%	1%	0%	1%	0%	С	0.081	0.539	24000	F
	То:	NCL CULP	EPER											
Bus Bus	From:	Begin SR	229											
(229) (15) (29) Main St	Town of Culpeper	0.06 <b>1800</b> 0	) F	97%	1%	1%	0%	1%	0%	С	0.077	0.597	19000	F
	To: From:	US 15 B	us											
(229) Main St	Town of Culpeper	0.93 <b>8100</b>	F	96%	2%	1%	1%	0%	0%	С	0.098	0.503	8800	F
	To:	NCL Culp	eper											
9	From:	ECL Culp	ener											
522 3 Germanna Hwy	Town of Culpeper	0.96 <b>9100</b>		94%	1%	1%	2%	2%	0%	F	0.086	0.505	9700	G
	To:	US 15 Bus Ora	nge Road											
Bus	From:	RT 15 B	US											
522 15 Germanna Highway	Town of Culpeper	0.12 <b>5900</b>	G	97%	1%	1%	1%	1%	0%	С	0.09	0.583	6300	G
$\bigcirc$	To:	MAIN STR												
Bus Bus	From:	Germanna												
(522)(15)(29) Main St	Town of Culpeper	0.26 <b>1200</b> 0	) G	97%	1%	1%	1%	1%	0%	С	0.075	0.571	12000	G
Dua Dua	To: From:	204-3651 Ora	inge Rd											
Bus Bus (522) (15) (29) Main St	Town of Culpeper	0.59 18000	) G	97%	1%	1%	1%	1%	0%	F	0.075	0.571	19000	G
	To:	Evans S	St											
~~~	From:	Bus US 15, Bus US	S 29 Main	St										
(522) Evans St	Town of Culpeper	0.08 <b>1300</b> 0	) G	97%	1%	1%	1%	1%	0%	F	0.081	0.657	14000	G
	To:	N West												
~~~	From:	N West St								_				_
(522) Evans St	Town of Culpeper	1.44 <b>1200</b> 0		97%	1%	1%	1%	1%	0%	С	0.081	0.566	13000	G
<u>~</u>	То:	WCL Culp	eper											

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### Virginia Department of Transportation Traffic Engineering Division 2015

		Anr	nual A	verage [	Daily Tı	affic Vo	lume Est		By Sec	tion o	f Route					
Pouto	Longth	AADT	ΟΛ	4Tiro	Puo		Tru	ck		00	K	OK	Dir	4 4 14/DT	OW	Voor
	Lengin	AADI	QA	41116	bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDI	QW	rear
Town of Culpeper		From				Eva	ans Street									
1 West St/Old Rixeyville I	Rd0.82	2300	F	99%	0%	1%	0%	0%	0%	С	0.107		0.576	2500	F	2015
<u> </u>		From														
1 Old Rixeyville Rd	0.07	1600	F	99%	0%			0%	0%	F	0.136			1700	F	2015
_		From						187								
Route         Length         AAD           Town of Culpener         1         West St/Old Rixeyville Rd0.82         2300           1         Old Rixeyville Rd         0.07         1600           (365)         Orange Rd         0.33         6400           (365)         Chandler St         0.09         990           (365)         Chandler St         0.75         1000           (365)         Chandler St         0.84         2200           (3656)         Piedmont St         0.27         3900           (3656)         Old Brandy Rd         0.20         4400           (3656)         Old Brandy Rd         0.56         4000           (3657)         West St         0.91         4400           (3657)         West St         0.91         4400           (3657)         West St         0.91         4400           (200)         East St         5100           (201)         Fairview Rd         280           (202)         Madison Rd         2100           (203)         S Blue Ridge Ave         4400			G	93%	1%	1%	4%	1%	0%	С	0.088		0.578	6800	G	2015
	Color   Colo															
O -:															_	
Route   Length   AADT   QA   4Tire   Bus   Section   Fluid   Section   Sec							2015									
				070/	00/			40/	00/	_			0.504	4400		0015
(3652) Chandler St	0.09	990	<u> </u>	97%	0%	1%	1%	1%	0%	F	0.098		0.561	1100	F	2015
Chandler St	0.75		_	079/	00/			10/	00/		0.000		0.507	1100	G	2015
(3652) Chandler St	0.75	To		9170	076			170	076		0.099		0.567	1100	G	2013
		From														
(3653) Laurel St	0.84	2200	G	97%	0%			0%	0%	С	0.082		0.609	2400	G	2015
		То				Mac	lison Road									
(3656) Piedmont St	0.27	3900 <sub>To</sub>	F	99%	0%				0%	F	0.091		0.521	4200	F	2015
		From						I								
(3656) Old Brandy Rd	0.20	4400	F	99%	0%			0%	0%	С	0.093		0.514	4800	F	2015
		To From														
(3656) Old Brandy Rd	0.56	4000	F	99%	0%			0%	0%	F	0.093		0.54	4400	F	2015
<u> </u>		То			US	15 Bus Ja	mes Madis	on Hwy								
O																
(3657) West St	Total Front				2015											
		From														
Bus US 15; Bus US 29			G	97%	1%			1%	0%	С	0.078		0.523	22000	G	2015
,		To				Ira F										
		From				Blue	Ridge Ave									
Cameron St		540	G								0.187		0.646	580	G	2015
		10						St								
Fact St			<u> </u>			Wa	lter Street				0.103		0.55	5100	G	2015
Last of		To				Ma	son Street				100		0.55	3100	u	2013
		From				SR 2	29 Main St									
Fairview Rd		280	F								0.123		0.624	310	F	2015
						Не	ndrick St									
Madison Dd			<u> </u>	000/	00/			10/	00/		0.004		0.510	21000	6	2015
iviadisori Hū		<b>∠1000</b> To	<u> </u>	90%	υ%			1%	U%	U	0.084		0.510	Z1000	G	2015
		From	1								1					
S Blue Ridge Ave		4400	G	100%	0%			0%	0%	С	0.088		0.781	4400	G	2015
		To				S	pring St									
0.5															_	
S East St		6100	G	97%	0%			1%	0%	С	0.096		0.513	6100	G	2015
		From														
Sperryville Pike		8000	G	96%	1%	1%	L Culpeper 1%	1%	0%	С	0.083		0.599	8000	G	2015
-1 7		To					yland Rd									
		From					luctry Dr									

Industry Dr

McDevitt Dr

1%

2%

0%

1%

0.087

0.537

11000

G

2015

С

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11000

G

96%

1%

SR 3

# Virginia Department of Transportation Traffic Engineering Division 2015 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Culpeper

Route	Length	AADT	QA	4Tire	Bus	2Axle	Tru 3+Axle	ıck 1Trail		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Culpeper  From Madison Rd																
Sunset Lane		5500	G	000/	10/			00/	00/	С	0.095		0.579	5500	G	2015
Sunset Lane		5500	G	99%	1%			0%	0%	C	0.095		0.579	5500	G	2015
		To				Re	edbud St									
-	From		Sperryville Pike													
Virginia Avenue		5200	F								0.104		0.576	5200	F	2015
		To				Fir	st Street									

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