### 2019

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

where available

## Special Locality Report 103

City of Buena Vista

Information in this report is included in Report

81

(Rockbridge 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

Special Routes

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	
7	Virginia State Rou	ute

Frontage Road (F precedes frontage route number)

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

Secondary Route

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 2019

#### Annual Average Daily Traffic Volume Estimates By Section of Route City of Buena Vista

Devite	London although an	1	4407		4.T.			Tru	-Truck			K	01/	Dir	A AVA/DT	-0144
Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDT	QW
~~	From	WC	CL Buena V	ista												
(60) Lexington Ave	City of Buena Vista	0.08	10000	F	94%	0%	1%	1%	3%	0%	F	0.086	F	0.517	11000	F
<u> </u>	To: From:	A	lleghany Av	ve												
60 Lexington Ave	City of Buena Vista	0.53	9800	F	94%	0%	1%	1%	3%	0%	С	0.087	F	0.514	10000	F
<u> </u>	To: From:		Beech Ave													
(60) 29th St	City of Buena Vista	1.31	4500	F	91%	1%	1%	2%	5%	0%	С	0.094	F	0.545	4800	F
<u> </u>	To:	EC	L Buena Vi	ista											3500 3500 6900 2500 3600	
~~	From:		L Buena Vi		2221	221			221	221			_		2522	_
Magnolia Ave	City of Buena Vista	0.97	3300	F	93%	0%	2%	2%	3%	0%	С	0.108	F	0.501	3500	F
~~~	To: From:		2nd St				<u> </u>									
501 Magnolia Ave	City of Buena Vista	1.09	6500	F	96%	0%	1%	1%	2%	0%	С	0.098	F	0.518	6900	F
<del>~</del>	To: From:		15th St													
Magnolia Ave	City of Buena Vista	0.71	2400	F	93%	0%	2%	2%	3%	0%	F	0.104	F	0.539	2500	F
~	To: From:		25th St													
Park Ave	City of Buena Vista	0.28	3400	F	93%	0%	2%	2%	3%	0%	F	0.094	F	0.59	3600	F
	To: From		Beech Ave												3500 6900 2500 3600 11000	
501 Beech Ave	City of Buena Vista	0.12	Park Ave <b>10000</b>	F	93%	0%	2%	2%	3%	0%	F	0.091	F	0.541	11000	F
301)200017110	To:	0.12	29th St		0070	070		270	070	0 70	•	0.001	•	0.011	11000	•
ALT	From:		Park Ave													
501 Beech Ave	City of Buena Vista	0.37	7000	F	95%	1%	1%	1%	2%	0%	С	0.09	F	0.532	7400	F
<u> </u>	To		22nd St													
ALT 501 Sycamore Ave	City of Buena Vista	0.38	6200	F	95%	0%	1%	1%	2%	0%	С	0.088	F	0.558	6600	F
Sycamore Ave	Oity of Buena Vista	0.36		Г	30 /0	U /o	1 /0	1 /0	<b>∠</b> /0	U /o	U	0.000	'	0.556	0000	'
ALT	To: From:		18th St													
501 Sycamore Ave	City of Buena Vista	0.03	5900	F	95%	0%	1%	1%	2%	0%	F	0.087	F	0.556	6300	F
<u> </u>	To:		16th St													

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# Virginia Department of Transportation Traffic Engineering Division 2019 Annual Average Daily Traffic Volume Estimates By Section of Route City of Buena Vista

						City of Buena	vista								
Route	Length	AADT	QA	4Tire	Bus	Tr 2Axle 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
City of Buena Vista															
		From				US 60 29th S									
1 Catalpa Ave	0.31	2000	F	96%	1%	1% 2%	1%	0%	С	0.090	F	0.608	2200	F	2019
		Te				103-3350; 34Th	St								
<u> </u>		From	<u> </u>			29th St								_	
Rockbridge Ave	0.49	2000	F	97%	0%	1% 1%	0%	0%	С	0.111	F	0.518	2100	F	2019
<u> </u>		To				Catalpa Ave	10								
3350) Catalpa Ave	0.45	2900	F	96%	1%	Rockbridge Av	0%	0%	С	0.103	F	0.505	3100	F	2019
Catalpa Ave	0.40	<b>2300</b>	Ė			Buena Vista Rd; 8				0.100	•	0.505	3100	•	2013
		From		01	1-051 OR			duic Ru		1					
3351) Long Hallow Rd	0.96	1400	F	99%	0%	US 60 Lexington	Ave 0%	0%	С	0.103	F	0.598	1500	F	2019
Long Hallow Rd	0.90	1400 To	┌╴	33 /o	0 /6		0 /6	0 /6	U	0.103		0.530	1300	'	2019
						Catalpa Ave									
( 470 O)	0.40	From	<u> </u>	000/	40/	Magnolia Ave		00/			_	0.504	4.400	_	0010
3353) 17th St	0.43	1400	F	98%	1%	0% 0%	0%	0%	С	0.105	F	0.584	1400	F	2019
		To	1			Cedar Ave									
<u> </u>		From	<u> </u>			13th St				<u> </u>	_			_	
Maple Ave	1.04	180	F	96%	2%	1% 0%	0%	0%	С	0.141	F	0.539	190	F	2019
$\overline{}$		T <sub>c</sub> From	-			25th Half St									
3354) Walnut Ave	0.34	660	F	98%	1%	1% 0%	0%	0%	С	0.116	F	0.506	700	F	2019
$\mathcal{L}$		To	:			Ridge Ave									
$\overline{}$		From	:			Walnut Ave									
Ridge Ave	0.28	1500	F	99%	0%	0% 0%	0%	0%	С	0.104	F	0.621	1600	F	2019
<u> </u>		To	:			29th St									
_		From				Magnolia Ave	•								
3355) E 24Th St	0.43	1100	F	99%	1%	0% 0%	0%	0%	С	0.096	F	0.661	1200	F	2019
$\mathcal{I}$		To	·			Cedar Ave									
		From	:			13th St									
3356) Cedar Ave	0.96	320	F	96%	2%	2% 0%	0%	0%	С	0.133	F	0.587	340	F	2019
<i></i>		To	:			24th St									
		From	:			Magnolia Ave	,								
3357) E 21st St	0.43	510	F	98%	1%	1% 0%	0%	0%	С	0.108	F	0.629	550	F	2019
3337)		To	Ė			Cedar Ave									
		From													
3359) 13th St	0.47	1400	F	99%	0%	Magnolia Ave	0%	0%	С	0.103	F	0.539	1400	F	2019
3359) 13th St	0.47	1 <b>-100</b>	Ė	33 70	0 70	Cedar Ave	0 70	0 70		-0.100		0.555	1400	•	2013
		From													
10th Ct	1.00			000/	00/	WCL Buena Vi		00/		0.110	_	0.523	2700	_	2010
3360) 10th St	1.28	3500 <sub>To</sub>	F	98%	0%	1% 1%	0%	0%	С	0.110	Г	0.523	3700	F	2019
		***	1			Magnolia Ave									
001 01		From	<u> </u>			Sycamore Av	e				_		0.40	_	0010
20th St		320	_ <u>F</u> _							0.101	F	0.603	340	F	2019
		To				Cedar Ave									
		From				Maple Ave									
25 1/2 St		630	F							0.088	F	0.516	670	F	2019
		To	:			Walnut Ave									
		From	:			Lombardy Av	e								
38th St		480	F							0.208	F	0.810	510	F	2019
		To				Catalpa Ave									_
		From	1			Linden Ave				<del></del>				·	
4th St		470	F							0.129	F	0.583	500	F	2019
- <del></del>		To	· -			Sycamore Av	e				-				
						.,					_				
		From	:			C+1. C+									
Magnolia Avonuo				0/10/	10/	6th Street	20/	Nº/		0.004	E	0.570	7700	G	2010
Magnolia Avenue		7700	G	94%	1%	1% 1%	2%	0%	С	0.094	F	0.579	7700	G	2019
Magnolia Avenue		<b>7700</b>	G	94%	1%	1% 1% 9th Street		0%	С	0.094	F	0.579	7700	G	2019
		7700 To				1% 1% 9th Street US 60 Lexington	Ave								2019
Magnolia Avenue Orchard Avenue		<b>7700</b>	G	94%	1%	1% 1% 9th Street	Ave 0%	0%	C	0.094	F	0.579	7700 1800	G G	2019

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# Virginia Department of Transportation Traffic Engineering Division 2019 Annual Average Daily Traffic Volume Estimates By Section of Route City of Buena Vista

Route City of Buena Vista	Length	AADT	QA	4Tire	Bus	Truck2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Spruce Ave		60 To	F			23rd St 24th St		0.219	F	0.571	60	F	2019

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