2019
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
180

Town of Buchanan

Information in this report is included in Report

11

(Botetourt 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
2019
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Buchanan

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From: WCL Buchanan															
11 Main St	Town of Buchanan (Maint: 11)	0.43	**4300**	**N**	96%	1%	0%	1%	1%	0%	N	0.103	F	0.632	4500	N
	To: 11-625 Mt Joy Rd															
	From:															
11 Main St	Town of Buchanan (Maint: 11)	2.09	**4200**	**G**	96%	1%	0%	1%	1%	0%	C	0.104	F	0.609	4400	G
	To: SR 43 Parkway Dr															
	From:															
11 43 Main St	Town of Buchanan (Maint: 11)	0.18	**4300**	**G**	93%	1%	1%	1%	4%	0%	C	0.093	F	0.504	4600	G
	To: SR 43 First St															
	From:															
11 Main St	Town of Buchanan (Maint: 11)	0.78	**2900**	**G**	96%	1%	0%	1%	1%	0%	F	0.092	F	0.542	3100	G
	To: NCL Buchanan															
	From: SCL Buchanan															
43 Parkway Dr	Town of Buchanan (Maint: 11)	0.64	**310**	**N**	97%	1%	1%	1%	0%	0%	N	0.105	F	0.674	320	N
	To: US 11 S, Main St															
	From:															
43 11 Main St	Town of Buchanan (Maint: 11)	0.18	**4300**	**G**	93%	1%	1%	1%	4%	0%	C	0.093	F	0.504	4600	G
	To: US 11 N, Main St															
	From:															
43 First St	Town of Buchanan (Maint: 11)	0.82	**1700**	**G**	94%	2%	1%	1%	1%	0%	F	0.111	F	0.62	1700	G
	To: NCL Buchanan															

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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 Buchanan																
617 11 Schoolhouse Rd	0.75	**450**	From: 11-625 N, Pico Rd **R** To: 11-627 Red Horse Lane								NA			NA		06/03/2016
617 11 Newtown Rd	0.26	**370**	From: 11-627 Red Horse Lane **R** To: 11-1321 Newtown Rd; Gap								NA			NA		06/03/2016
617 11 Kessler Lane	0.07	**80**	From: Dead End; Gap **R** To: US 11 Main St								NA			NA		06/03/2016
625 11 Pico Rd	0.37	**660**	From: SCL Buchanan **N**	95%	4%	0%	0%	0%	0%	N	0.116	F	0.796	700	N	2019
625 11 Pico Rd	0.30	**1200**	To: 11-617 Schoolhouse Rd From: US 11 N, Main St **G**	95%	4%	0%	0%	0%	0%	C	0.171	F	0.608	1300	G	2019
625 11 Mt Joy Rd	0.25	**410**	To: US 11 S, Main St From: US 11 N, Main St **G**	95%	4%	0%	0%	0%	0%	F	0.112	F	0.62	430	G	2019
627 11 Red Horse Lane	0.40	**170**	To: WCL Buchanan From: Dead End **R** To: 11-617 Newtown Rd; Schoolhouse Rd								NA			NA		06/03/2016
1301 11 Bedford St	0.07	**150**	From: US 11 Main St **R** To: 11-1305 Lowe								NA			NA		04/18/2019
1302 11 13th St	0.20	**110**	From: 11-1314 Albemarle Ave **R** To: US 11 Main St								NA			NA		04/18/2019
1303 11 Bridge St	0.24	**160**	From: 11-1318 North Water St **R** To: 11-1322 Fourth St								NA			NA		04/16/2019
1303 11 Bridge St	0.15	**80**	From: 11-1322 Fourth St **R** To: Dead End								NA			NA		04/16/2019
1304 11 Fairview St	0.42	**260**	From: SR 43 First St **R** To: US 11 Main St								NA			NA		04/16/2019
1305 11 Lowe	0.69	**350**	From: US 11 S, Main St **R** To: US 11 N, Main St								NA			NA		04/18/2019
1306 11 Fairview St	0.17	**90**	From: 11-1304 Fairview St **R** To: Dead End								NA			NA		04/16/2019
1307 11 Boyd St	0.61	**170**	From: 11-1316, 16th St **R** To: US 11 Main St								NA			NA		04/18/2019
1308 11 19th St	0.22	**650**	From: 11-1310 Culpeper St **R** To: US 11 Main St								NA			NA		04/18/2019
1309 11 14th St	0.16	**50**	From: ECL Buchanan **R** To: 11-1307 Boyd St								NA			NA		04/18/2019
1310 11 Culpeper St	0.39	**250**	From: 0.14 MS SCL Buchanan **R** To: 11-1316, 16th St								NA			NA		04/18/2019
1310 11 Culpeper St	0.44	**60**	From: 11-1316, 16th St **R** To: Dead End								NA			NA		04/18/2019
1311 11 Washington St	0.02	**20**	From: Dead End **R** To: 11-1307 Boyd St								NA			NA		04/18/2019

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Town of Buchanan																
1311 11 Washington St	0.03	**20**	From: 11-1307 Boyd St **R** To: Dead End; Gap								NA			NA		06/03/2016
1311 11 Washington St	0.03	**20**	From: Dead End; Gap **R** To: US 11 Main St								NA			NA		04/16/2019
1311 11 Washington St	0.07	**90**	From: US 11 Main St **R** To: 11-1305 Lowe								NA			NA		04/18/2019
1312 11 James River Terrace	0.71	**170**	From: Dead End **R** To: US 11 Main St								NA			NA		04/18/2019
1313 11 16th St	0.23	**210**	From: ECL Buchanan **R** To: US 11 Main St								NA			NA		04/18/2019
1314 11 Albemarle Ave	0.30	**70**	From: 11-1317, 17th St **R** To: Dead End								NA			NA		04/18/2019
1315 11 Bridge St	0.20	**90**	From: Dead End **R** To: 11-1307 Boyd St								NA			NA		04/16/2019
1316 11 16th St	0.12	**70**	From: 11-1314 Albemarle Ave **R** To: 11-1307 Boyd St								NA			NA		04/18/2019
1317 11 17th St	0.09	**90**	From: 11-1314 Albemarle Ave **R** To: 11-1320 Spotswood								NA			NA		04/18/2019
1318 11 North Water St	0.09	**47**	From: 11-1303 Bridge St **R** To: Old Mill Rd								NA			NA		04/16/2019
1318 11 Old Mill Rd	0.15	**60**	From: North Water St **R** To: US 11 Main St								NA			NA		06/03/2016
1319 11 3rd St	0.15	**90**	From: 11-1303 Bridge St **R** To: US 11 Main St								NA			NA		04/16/2019
1320 11 Spottswood Ave	0.23	**80**	From: 11-1308, 19th St **R** To: 11-1316, 16th St								NA			NA		04/18/2019
1321 11 Newtown Rd	0.43	**360**	From: 11-617 Newtown Rd **R** To: 11-1308, 19th St								NA			NA		04/18/2019
1322 11 4th St	0.15	**120**	From: Dead End **R** To: 11-1303 Bridge St								NA			NA		04/16/2019
1322 11 4th St	0.25	**110**	From: 11-1303 Bridge St **R** To: Dead End								NA			NA		04/16/2019
1323 11 Southwest Ave	0.20	**120**	From: Dead End **R** To: 11-1312 James River Terrace								NA			NA		04/16/2019
1324 11 Pattonsburg Lane	0.20	**50**	From: 11-1318 Old Mill Rd **R** To: Dead End								NA			NA		06/03/2016
1325 11 3rd St	0.13	**47**	From: 11-1306 Fairview St **R** To: Dead End								NA			NA		04/16/2019

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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							
Town of Buchanan																
1327 11 Spottswood South	0.10	**220**	From: 11-1321 Newtown Rd **R** To: Dead End								NA			NA		04/18/2019
1328 11 20th St	0.06	**60**	From: 11-1329 Chenault St **R** To: 11-1327 Spottswood South								NA			NA		06/03/2016
1329 11 Chenault St	0.15	**200**	From: Cul-de-Sac **R** To: 11-1328, 20th St								NA			NA		06/03/2016