2010
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
164

Town of Appalachia

Information in this report is included in Report

97

(Wise 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
2010
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Appalachia

Route	Jurisdiction		Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
								2Axle	3+Axle	1Trail	2Trail						
Bus 23 Main St	Town of Appalachia (Maint: 97)	From: SCL Appalachia	1.98	**7100**	**N**								NA			7300	N
		To: NCL Appalachia															
78 Callahan Ave	Town of Appalachia (Maint: 97)	From: Bus US 23, ALT US 58	1.39	**3000**	**F**	64%	1%	1%	2%	32%	0%	F	0.100	F	0.595	3200	F
		To: WCL Appalachia															
160	Town of Appalachia (Maint: 97)	From: WCL Appalachia	1.71	**760**	**N**	75%	1%	1%	3%	21%	0%	N	0.113	N	0.553	810	N
		To: SR 68															

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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 Appalachia																
601 97	1.01	**280**	From: Dead End **R** To: SR 78								NA			NA		07/16/2003
669 97	0.02	**60**	From: 97-601 **R** To: SR 78								NA			NA		07/16/2003
1301 97	0.05	**100**	From: 97-601 **R** To: 97-1302								NA			NA		03/29/2007
1302 97	0.15	**90**	From: 97-1303 Chestnut St **R** To: 97-1301								NA			NA		03/29/2007
1303 97 Chestnut St	0.06	**180**	From: 97-601 **R** To: 97-1302								NA			NA		03/29/2007
1304 97 Bell Ave	0.08	**420**	From: US 23 **R** To: 97-1305 Henry St								NA			NA		03/28/2007
1304 97 Bell Ave	0.07	**260**	From: 97-1305 Henry St **R** To: 97-1333 Richmond St								NA			NA		03/28/2007
1305 97 Henry St	0.40	**370**	From: Dead End **R** To: 97-1304 Bell Ave								NA			NA		03/28/2007
1306 97 Oak St	0.15	**130**	From: US 23 **R** To: Dead End								NA			NA		03/28/2007
1307 97 Railroad Ave	0.36	**460**	From: Bus US 23 **R** To: Dead End								NA			NA		03/28/2007
1308 97 Depot St	0.07	**1700**	From: SR 78 **R** To: Dead End								NA			NA		03/28/2007
1309 97 Kilbourne Ave	0.13	**650**	From: 97-1310 Brown St **R** To: 97-1312 River St								NA			NA		03/28/2007
1309 97 Kilbourne Ave	0.07	**1100**	From: 97-1312 River St **R** To: 97-1308 Depot St								NA			NA		03/28/2007
1310 97 Brown St	0.31	**740**	From: 97-1319 Powell St; Spruce St **R** To: 97-1315 Blondell Ave								NA			NA		03/28/2007
1310 97 Brown St	0.05	**270**	From: 97-1315 Blondell Ave **R** To: 97-1313 Dixon St								NA			NA		03/28/2007
1311 97 Cornett St	0.05	**160**	From: 97-1309 Kilbourne Ave **R** To: 97-1315 Blondell Ave								NA			NA		03/28/2007
1311 97 Cornett St	0.05	**70**	From: 97-1315 Blondell Ave **R** To: 97-1313 Dixon St								NA			NA		03/28/2007
1312 97 River St	0.05	**510**	From: 97-1309 Kilbourne Ave **R** To: 97-1315 Blondell Ave								NA			NA		03/28/2007
1313 97 Dixon St	0.17	**90**	From: 97-1317 Wilson St **R** To: 97-1311 Cornett St								NA			NA		03/28/2007
1314 97 Templeton St	0.22	**80**	From: Dead End **R** To: 97-1313 Dixon St								NA			NA		03/28/2007

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Town of Appalachia

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 Appalachia																
(1315 97) Blondell Ave	0.26	**390**	**R**								NA			NA		03/28/2007
From: 97-1316 Harding St																
To: 97-1312 River St																
(1316 97) Harding St	0.11	**210**	**R**								NA			NA		03/28/2007
From: Dead End																
To: 97-1315 Blondell Ave																
(1317 97) Wilson St	0.10	**40**	**R**								NA			NA		03/28/2007
From: 97-1315 Blondell Ave																
To: 97-1313 Dixon St																
(1319 97) Spruce St	0.05	**120**	**R**								NA			NA		03/29/2007
From: Dead End																
To: 97-1321 Inman St																
(1319 97) Spruce St	0.25	**1100**	**R**								NA			NA		03/28/2007
From: 97-1321 Inman St																
To: 97-1310 Brown St																
(1319 97) Powell St	0.16	**430**	**R**								NA			NA		03/28/2007
From: 97-1310 Brown St																
To: 97-1328 Pine St																
(1319 97) Railroad Dr	0.04	**420**	**R**								NA			NA		03/28/2007
From: 97-1328 Pine St																
To: SR 78																
(1320 97) Spruce St	0.02	**210**	**R**								NA			NA		03/29/2007
From: Dead End																
To: US 23																
(1321 97) Inman St	0.15	**1800**	**R**								NA			NA		03/29/2007
From: Bus US 23																
To: 97-1319 Spruce St																
(1322 97) Roberts St	0.29	**540**	**R**								NA			NA		03/29/2007
From: 97-1319 Spruce St																
To: Dead End																
(1323 97) Carroll St	0.05	**150**	**R**								NA			NA		03/29/2007
From: 97-1319 Spruce St																
To: 97-1326 Fifth St																
(1324 97) Edmond St	0.10	**190**	**R**								NA			NA		03/29/2007
From: 97-1325 Wise St																
To: 97-1326 Fifth St																
(1325 97) Wise St	0.09	**170**	**R**								NA			NA		03/29/2007
From: Dead End																
To: 97-1324 Edmond St																
(1326 97) Fifth St	0.54	**49**	**R**								NA			NA		03/29/2007
From: 0.08 MW 97-1327																
To: Dead End																
(1327 97) Sixth St	0.04	**48**	**R**								NA			NA		03/29/2007
From: 97-1326 Fifth St																
To: Dead End																
(1328 97) Pine St	0.02	**300**	**R**								NA			NA		03/28/2007
From: 97-1319 Railroad Dr; Powell St																
To: US 23																
(1329 97) Kentucky Ave	0.10	**710**	**R**								NA			NA		03/29/2007
From: US 23																
To: 97-1330 Mouser St																
(1330 97) Mouser St	0.04	**670**	**R**								NA			NA		03/29/2007
From: 97-601																
To: 97-1329 Kentucky Ave																
(1330 97)	0.29	**140**	**R**								NA			NA		03/29/2007
From: 97-1329 Kentucky Ave																
To: US 23																
(1332 97) Lee St	0.15	**610**	**R**								NA			NA		03/28/2007
From: Bus US 23																
To: 97-1333 Richmond St																

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						2Axle	3+Axle	1Trail	2Trail							
Town of Appalachia																
1333 97 Richmond St	0.06	**70**	From: 97-1304 Bell Ave **R** To: 97-1332 Lee St								NA			NA		03/28/2007
1334 97 Richmond St	0.09	**60**	From: Dead End **R** To: 97-1304 Bell Ave								NA			NA		03/28/2007
9677 97 W River Rd	0.05	**110**	From: Appalachia Elementary Sch **R** To: 97-1321 Inman St								NA			NA		04/12/2007
9779 97	0.29	**470**	From: Appalachia High School **R** To: US 23								NA			NA		03/28/2007