

2002

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

where available

Special Locality Report

164

Town of Appalachia

Prepared By

**Virginia Department of Transportation
Mobility Management Division**

In Cooperation With

**U.S. Department of Transportation
Federal Highway Administration**

Virginia Department of Transportation
Mobility Management 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 at VDOT Mobility Management’s 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’s Mobility Management 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

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months 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 30th Highest Hour
- N Peak Hour 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
-  Virginia State Route
-  Secondary Route

Special Routes

- Bus
 Bus - Business Route
-  Bypas - Bypass Route
- Truck - Truck Route
- ALT
 ALT - Alternate Route
- Wve - Wve 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 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
 Mobility Management Division
 2002
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Town of Appalachia

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Appalachia																
Bus 23	1.98	2700	N	84%	1%	From: SCL Appalachia To: NCL Appalachia				N	0.101	N	0.518	2800	N	2002
78	1.39	2500	G	71%	1%	From: Bus US 23, ALT US 58 To: WCL Appalachia				F	0.087	F	0.517	2600	G	2002
160	1.71	460	N	93%	0%	From: WCL Appalachia To: SR 68				N	0.092	N	0.622	460	N	2002
601 97	1.01	210	R			From: Dead End To: SR 78					NA			NA		1997
669 97	0.02	40	R			From: 97-601 To: SR 78					NA			NA		1997
1301 97	0.05	140	R			From: 97-601 To: 97-1302					NA			NA		11/06/2000
1302 97	0.15	170	R			From: 97-1303 To: 97-1301					NA			NA		11/06/2000
1303 97	0.06	230	R			From: 97-601 To: 97-1302					NA			NA		11/06/2000
1304 97	0.08	500	R			From: US 23 To: 97-1305					NA			NA		11/06/2000
1304 97	0.07	270	R			From: 97-1305 To: 97-1333					NA			NA		11/06/2000
1305 97	0.40	250	R			From: Dead End To: 97-1304					NA			NA		11/06/2000
1306 97	0.15	190	R			From: US 23 To: Dead End					NA			NA		11/06/2000
1307 97	0.36	460	R			From: US 23 BUS To: Dead End					NA			NA		11/06/2000
1308 97	0.07	1700	R			From: SR 78 To: Dead End					NA			NA		11/06/2000
1309 97	0.13	500	R			From: 97-1310 To: 97-1312					NA			NA		11/06/2000
1309 97	0.07	1000	R			From: 97-1312 To: 97-1308					NA			NA		11/06/2000
1310 97	0.31	1000	R			From: 97-1319 To: 97-1315					NA			NA		11/06/2000
1310 97	0.05	230	R			From: 97-1315 To: 97-1313					NA			NA		11/06/2000
1311 97	0.05	90	R			From: 97-1309 To: 97-1315					NA			NA		11/06/2000
1311 97	0.05	90	R			From: 97-1315 To: 97-1313					NA			NA		11/06/2000

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						2Axle	3+Axle	1Trail	2Trail							
Town of Appalachia																
1312 97	0.05	360	R			From: 97-1309					NA		NA			11/06/2000
						To: 97-1315										
1313 97	0.17	110	R			From: 97-1317					NA		NA			11/06/2000
						To: 97-1311										
1314 97	0.22	60	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1313										
1315 97	0.26	350	R			From: 97-1316					NA		NA			11/06/2000
						To: 97-1312										
1316 97	0.11	200	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1315										
1317 97	0.10	80	R			From: 97-1315					NA		NA			11/06/2000
						To: 97-1313										
1319 97	0.05	60	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1321										
1319 97	0.25	1500	R			From: 97-1310					NA		NA			11/06/2000
						To: 97-1310										
1319 97	0.16	980	R			From: 97-1328					NA		NA			11/06/2000
						To: SR 78										
1319 97	0.04	550	R			From: Dead End					NA		NA			11/06/2000
						To: US 23										
1320 97	0.02	310	R			From: US 23 BUS					NA		NA			11/06/2000
						To: 97-1319										
1321 97	0.15	1700	R			From: 97-1319					NA		NA			11/06/2000
						To: Dead End										
1322 97	0.29	840	R			From: 97-1319					NA		NA			11/06/2000
						To: 97-1326										
1323 97	0.05	90	R			From: 97-1325					NA		NA			11/06/2000
						To: 97-1326										
1324 97	0.10	110	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1326										
1325 97	0.09	140	R			From: 97-1324					NA		NA			11/06/2000
						To: 0.08 MW 97-1327										
1326 97	0.54	190	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1326										
1327 97	0.04	70	R			From: Dead End					NA		NA			11/06/2000
						To: 97-1319										
1328 97	0.02	540	R			From: 97-1319					NA		NA			11/06/2000
						To: US 23										

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						2Axle	3+Axle	1Trail	2Trail								
Town of Appalachia																	
1329 97	0.10	640	R	From: US 23							NA			NA			11/06/2000
				To: 97-1330													
1330 97	0.04	600	R	From: 97-601							NA			NA			11/06/2000
				To: 97-1329													
1330 97	0.29	50	R	From: 97-1329							NA			NA			11/06/2000
				To: US 23													
1332 97	0.15	440	R	From: US 23 BUS							NA			NA			11/06/2000
				To: 97-1333													
1333 97	0.06	60	R	From: 97-1304							NA			NA			11/06/2000
				To: 97-1332													
1334 97	0.09	60	R	From: Dead End							NA			NA			11/06/2000
				To: 97-1304													
9677 97	0.05	NA		From: APPALACHIA ELEM SCH							NA			NA			
				To: 97-1321													
9779 97	0.29	460	R	From: APPALACHIA HIGH SCH							NA			NA			1993
				To: US 23													