

**2002**

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

where available

**Special Locality Report**

**150**

Town of Blacksburg

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.

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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 30<sup>th</sup> 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



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 - Business Route  
Bypas - Bypass Route



Truck - Truck Route  
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 Blacksburg

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
<b>Town of Blacksburg</b>																	
412	Prices Fork Rd	1.07	25000	G	98%	0%	1%	0%	1%	0%	F	0.087	F	0.574	26000	G	2002
									From: US 460								
									To: Toms Creek Rd								
412	Prices Fork Rd	0.28	18000	G	98%	0%	1%	0%	1%	0%	C	0.079	F	0.505	18000	G	2002
									From: Main St								
460		3.70	11000	G	89%	0%	2%	1%	7%	1%	F	0.086	F	0.657	12000	G	2002
									From: NCL Blacksburg								
460		3.43	12000	G	91%	0%	3%	0%	5%	1%	C	0.098	F	0.697	12000	G	2002
									From: SR 412 Prices Fork Rd								
									To: US 460 Bus SCL Blacksburg								
Bus 460	Main St	2.32	6800	G	97%	1%	1%	0%	0%	0%	C	0.096	F	0.672	7100	G	2002
									From: US 460								
Bus 460	Main St	0.26	16000	G	97%	1%	1%	0%	0%	0%	F	0.083	F	0.600	17000	G	2002
									From: Bruce Dr								
Bus 460	Main St	0.17	17000	G	97%	1%	1%	0%	0%	0%	F	0.079	F	0.557	18000	G	2002
									From: Progress St								
Bus 460	Main St	0.53	19000	G	97%	1%	1%	0%	0%	0%	F	0.080	F	0.599	20000	G	2002
									From: Prices Fork Rd								
Bus 460	Main St	0.19	16000	G	96%	0%	2%	1%	1%	0%	F	0.070	F	0.51	17000	G	2002
									From: Roanoke St								
Bus 460	Main St	0.53	18000	G	96%	0%	2%	1%	1%	0%	F	0.083	F	0.567	18000	G	2002
									From: Clay St								
Bus 460	Main St	1.00	17000	G	96%	0%	2%	1%	1%	0%	F	0.085	F	0.544	18000	G	2002
									From: Upland Rd								
Bus 460	Main St	1.25	16000	G	96%	0%	2%	1%	1%	0%	C	0.085	F	0.582	17000	G	2002
									From: Ellet Rd								
									To: US 460, ECL Blacksburg								
1	New Country Club Ext.	0.15	NA								NA			NA			
									From: Dead End								
									To: 150-3150 Airport Rd								
2	University City Blvd	1.11	8100	G	96%	3%	1%	0%	0%	0%	C	0.095	F	0.545	8400	G	2002
									From: Prices Fork Rd								
									To: Toms Creek Rd								
3150	Country Club Dr	0.63	4200	G	99%	0%	1%	0%	0%	0%	C	0.122	F	0.575	4300	G	2002
									From: Airport Rd								
									To: Main St								
3151	Ellett Rd	0.71	4000	G	98%	0%	1%	0%	0%	0%	C	0.128	F	0.771	4200	G	2002
									From: SCL Blacksburg								
									To: S Main St								
3152	Prices Fork Rd	0.75	12000	G	97%	0%	2%	1%	1%	0%	C	0.102	F	0.631	12000	G	2002
									From: WCL Blacksburg								
3152	Prices Fork Rd	0.36	16000	G	97%	0%	2%	1%	1%	0%	F	0.091	F	0.615	17000	G	2002
									From: Hethwood Blvd								
3152	Prices Fork Rd	0.58	26000	G	97%	0%	2%	1%	1%	0%	F	0.092	F	0.583	27000	G	2002
									From: Heather Dr								
									To: US 460								
3153	Airport Rd	0.37	1800	G	98%	0%	1%	0%	0%	0%	C	0.116	F	0.634	1900	G	2002
									From: Country Club Drive								
									To: Main Street								
3154	Glade Rd	1.55	1200	G	96%	1%	2%	0%	1%	0%	C	0.097	F	0.62	1300	G	2002
									From: WCL Blacksburg								
									To: Boxwood Dr								

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						2Axle	3+Axle	1Trail	2Trail								
<b>Town of Blacksburg</b>																	
(3154) Glade Rd	0.46	1800	G	96%	0%	1%	1%	1%	0%	C	0.099	F	0.667	1900	G	2002	
				From:	Boxwood Dr												
				To:	Oriole Dr												
(3154) Glade Rd	0.33	4900	G	96%	0%	1%	1%	1%	0%	F	0.1	F	0.672	5100	G	2002	
				From:	University City Blvd												
				To:	Main St												
(3156) Roanoke St	0.49	6700	G	97%	1%	2%	0%	0%	0%	C	0.094	F	0.591	7000	G	2002	
				From:	Owen St												
				To:	Roanoke St												
(3156) Owen St	0.11	5400	G	97%	0%	3%	0%	0%	0%	C	0.102	F	0.589	5600	G	2002	
				From:	Harding Ave												
				To:	Owen St												
(3156) Harding Ave	0.16	5600	G	97%	0%	3%	0%	0%	0%	C	0.103	F	0.621	5900	G	2002	
				From:	Cork Dr												
				To:	ECL Blacksburg												
(3159) Tom's Creek Rd	0.96	13000	G	97%	0%	2%	0%	1%	0%	F	0.084	F	0.606	13000	G	2002	
				From:	Prices Fork Rd												
				To:	US 460 Bypass												
(3164) Mt Tabor Rd	0.92	3300	G	97%	0%	2%	0%	1%	0%	C	0.106	F	0.664	3500	G	2002	
				From:	US 460												
				To:	NCL Blacksburg												
(3165) E Clay St	0.61	NA									NA			NA			
				From:	C8US 460												
				To:	Dead End Gap Terminus												
(3165) Patrick Henry Drive	0.79	NA									NA			NA			
				From:	Roanoke St												
				To:	C8US 460												
(3165) Patrick Henry Drive	0.83	NA									NA			NA			
				From:	C8US 460												
				To:	Toms Creek Rd												
Apperson Drive		180	G								0.100	F	0.722	180	G	2002	
				From:	Mason Drive												
				To:	Harding Avenue												
Draper Rd		720	G								0.133	F		750	G	2002	
				From:	Country Club Dr												
				To:	Airport Rd												
Hillcrest Dr		100	G								0.105	F		100	G	2002	
				From:	Country Club Dr												
				To:	Sunrise Dr												
Jackson St		4900	G								0.101	F		5200	G	2002	
				From:	Church St												
				To:	Penn St												
Lucas Drive		420	G								0.118	F	0.594	420	G	2002	
				From:	Giles Road												
				To:	Turner Street												
McBride Dr		720	G								0.087	F		750	G	2002	
				From:	Kelsey Dr												
				To:	Burrus Dr												
Progress St		4400	G								0.084	F		4600	G	2002	
				From:	Broce Dr												
				To:	Watson Ave												