

2009

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

where available

Special Locality Report

150

Town of Blacksburg

Information in this report is included in Report

60

(Montgomery 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

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
Traffic Engineering Division
2009
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Blacksburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
314 Southgate Dr	From: US 460															
	Town of Blacksburg (Maint: 60)	0.15	NA								NA			NA		
	To: 0.15 Mile E US 460															
412 Prices Fork Rd	From: US 460															
	Town of Blacksburg	1.07	26000	G	98%	1%	1%	0%	0%	0%	C	0.086	F	0.58	29000	G
412 Prices Fork Rd	From: Toms Creek Rd															
	Town of Blacksburg	0.28	18000	G	98%	1%	1%	0%	0%	0%	F	0.084	F	0.522	19000	G
	To: Main St															
460	From: NCL Blacksburg															
	Town of Blacksburg (Maint: 60)	0.40	13000	G	91%	0%	1%	1%	7%	0%	F	0.096	F	0.699	13000	G
	To: Bus US 460															
460	From: Bus US 460, N Main St															
	Town of Blacksburg (Maint: 60)	3.30	20000	F	93%	0%	1%	1%	5%	0%	C	0.098	F	0.614	21000	F
460	From: SR 412 Prices Fork Rd															
	Town of Blacksburg (Maint: 60)	2.97	33000	F	95%	0%	1%	1%	3%	0%	C	0.099	F	0.558	35000	F
	To: Southgate Dr															
460	From: BUS US 460															
	Town of Blacksburg (Maint: 60)	0.72	36000	G	95%	0%	1%	1%	3%	0%	F	0.095	F	0.635	38000	G
	To: SCL Blacksburg															
Bus 460 Main St	From: US 460; SCL Blacksburg															
	Town of Blacksburg	0.29	18000	N	98%	0%	1%	0%	0%	0%	N	0.093	N	0.589	19000	N
	To: SCL Blacksburg															
Bus 460 Main St	From: US 460															
	Town of Blacksburg	1.01	4600	G	98%	0%	1%	0%	0%	0%	F	0.105	F	0.707	5000	G
	To: Mount Tabor Rd															
Bus 460 Main St	From: Mount Tabor Rd															
	Town of Blacksburg	0.87	7800	G	98%	0%	1%	0%	0%	0%	C	0.102	F	0.636	8400	G
	To: Patrick Henry Dr															
Bus 460 Main St	From: Patrick Henry Dr															
	Town of Blacksburg	0.44	14000	G	98%	0%	1%	0%	0%	0%	F	0.085	F	0.613	15000	G
	To: Broce Dr															
Bus 460 Main St	From: Broce Dr															
	Town of Blacksburg	0.26	13000	G	98%	0%	1%	0%	0%	0%	F	0.083	F	0.529	14000	G
	To: Progress St															
Bus 460 Main St	From: Progress St															
	Town of Blacksburg	0.17	17000	G	98%	0%	1%	0%	0%	0%	F	0.083	F	0.550	19000	G
	To: Prices Fork Rd															
Bus 460 Main St	From: Prices Fork Rd															
	Town of Blacksburg	0.53	19000	G	98%	0%	1%	0%	0%	0%	F	0.079	F	0.539	20000	G
	To: Roanoke St															
Bus 460 Main St	From: Roanoke St															
	Town of Blacksburg	0.19	16000	G	98%	0%	1%	1%	0%	0%	F	0.079	F	0.501	18000	G
	To: Clay St															

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							2Axle	3+Axle	1Trail	2Trail						
Bus 460 Main St	From: <u>Clay St</u> Town of Blacksburg	0.53	17000	G	98%	0%	1%	1%	0%	0%	F	0.091	F	0.510	19000	G
Bus 460 Main St	To: <u>Upland Rd</u> From: <u>Clay St</u> Town of Blacksburg	1.00	20000	G	98%	0%	1%	0%	0%	0%	C	0.090	F	0.509	21000	G
Bus 460 Main St	To: <u>Ellett Rd</u> From: <u>Upland Rd</u> Town of Blacksburg	1.43	20000	G	98%	0%	1%	1%	0%	0%	C	0.086	F	0.533	22000	G
	To: <u>US 460; SCL Blackburg</u>															

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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 Blacksburg																
(F618) Holiday Lane	0.03	10	R								NA			NA		01/23/2008
						From: End State Maintenance										
(F618) Holiday Lane	0.09	90	R								NA			NA		01/23/2008
						From: SCL Blacksburg										
						To: Yellow Sulphur Rd										
(2) University City Blvd	1.11	10000	G	98%	2%	1%	0%	0%	0%	C	0.092	F	0.514	11000	G	2009
						From: Prices Fork Rd										
						To: Toms Creek Rd										
(3) Givens Lane	1.57	1700	G	99%	0%	1%	0%	0%	0%	C	0.1	F		1800	G	2009
						From: 150-3159 Chickahominy Dr										
						To: Bus US 460 North Main St										
(4) Progress St	0.64	NA									NA			NA		
						From: Bus US 460, N Main St										
(4) Progress St	0.32	770	G	99%	0%	1%	0%	0%	0%	C	0.125	F		840	G	2009
						From: 150-3165 Patrick Henry Dr										
						To: Cherokee Dr										
(4) Progress St	0.20	NA									NA			NA		
						From: Northside Dr										
						To: Givens Lane										
(5) Clay St	0.92	NA									NA			NA		
						From: Bus US 460										
						To: ECL Blacksburg; 60-1235, Floyd St										
(3150) Airport Rd	0.23	5000	G	99%	0%	0%	0%	0%	0%	F	0.110	F	0.583	5500	G	2009
						From: Southgate Dr										
						To: Country Club Dr										
(3150) Country Club Dr	0.40	3300	G	99%	0%	0%	0%	0%	0%	C	0.115	F	0.53	3600	G	2009
						From: Airport Rd										
						To: Main St										
(3151) Ellett Rd	0.71	5500	G	97%	1%	1%	0%	0%	0%	C	0.086	F	0.585	6000	G	2009
						From: SCL Blacksburg										
						To: S Main St										
(3152) Prices Fork Rd	0.75	13000	G	98%	1%	1%	0%	0%	0%	C	0.107	F	0.594	14000	G	2009
						From: WCL Blacksburg										
						To: Hethwood Blvd										
(3152) Prices Fork Rd	0.36	16000	G	98%	1%	1%	0%	0%	0%	F	0.107	F	0.596	17000	G	2009
						From: Heather Dr										
(3152) Prices Fork Rd	0.58	24000	G	98%	1%	1%	0%	0%	0%	F	0.1	F	0.578	26000	G	2009
						From: US 460										
						To: US 460										
(3153) Airport Rd	0.37	2200	G	99%	0%	1%	0%	0%	0%	C	0.117	F	0.623	2400	G	2009
						From: Southgate Dr										
						To: Main Street										
(3154) Glade Rd	1.55	1100	G	99%	0%	1%	0%	0%	0%	C	0.106	F	0.685	1200	G	2009
						From: WCL Blacksburg										
						To: Boxwood Dr										
(3154) Glade Rd	0.46	1600	G	99%	0%	1%	0%	0%	0%	C	0.097	F	0.645	1700	G	2009
						From: Boxwood Dr										
						To: Oriole Dr										
(3154) Glade Rd	0.33	4500	G	99%	0%	1%	0%	0%	0%	F	0.102	F	0.684	4900	G	2009
						From: Oriole Dr										
						To: University City Blvd										
(3156) Roanoke St	0.49	5500	G								NA			6100	G	2009
						From: Main St										
						To: Owen St										
(3156) Owen St	0.11	4600	G	97%	0%	2%	0%	0%	0%	C	0.092	F	0.591	5000	G	2009
						From: Roanoke St										
						To: Harding Ave										
(3156) Harding Ave	0.11	5200	G	97%	1%	2%	0%	0%	0%	C	0.092	F	0.619	5600	G	2009
						From: Owen St										
						To: Cork Dr										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Blacksburg																
(3156) Harding Ave	0.66	4300	G	97%	1%	2%	0%	0%	0%	F	0.089	F	0.619	4600	G	2009
(3159) Tom's Creek Rd	0.96	10000	F	97%	2%	0%	0%	0%	0%	C	0.099	F	0.517	11000	F	2009
(3159) Toms Creek Rd	0.12	NA									NA		NA			
(3164) Mt Tabor Rd	0.92	3200	G	98%	0%	1%	0%	0%	0%	C	0.097	F	0.644	3500	G	2009
(3165) Patrick Henry Dr	0.79	5800	G	98%	1%	1%	0%	0%	0%	C	0.091	F	0.558	6200	G	2009
(3165) Patrick Henry Dr	0.83	11000	F	98%	2%	0%	0%	0%	0%	C	0.089	F	0.511	12000	F	2009
Apperson Dr		190	G								0.12	F		190	G	2009
Country Club Dr		620	G								0.151	F	0.51	620	G	2009
Draper Rd		410	G								0.185	F		440	G	2009
E Clay St		3100	G	98%	1%	1%	0%	0%	0%	F	0.084	F	0.589	3400	G	2009
Edgewood Lane		290	G								NA			290	G	2009
Hightop Road		3500	F	97%	1%	1%	1%	0%	0%	C	0.088	F	0.553	3500	F	2009
Hillcrest Dr		90	G								0.168	F		100	G	2009
Jackson St		4000	G								NA			4400	G	2009
Lucas Dr		300	G								0.12	F		300	G	2009
McBride Dr		630	G								0.121	F		680	G	2009
Meadowbrook Drive		620	F	98%	1%	1%	0%	0%	0%	C	0.089	F	0.656	620	F	2009
Nellies Cave Road		2600	F	98%	1%	1%	0%	0%	0%	C	0.101	F	0.650	2600	F	2009
Progress St		3600	G								0.089	F	0.542	3900	G	2009

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						2Axle	3+Axle	1Trail	2Trail							
Town of Blacksburg																
Ramble Rd		6400	F	97%	1%	From: Industrial Park Rd				C	0.131	F	0.843	6400	F	2009
						To: Rim Rock Rd										
Southgate Dr		11000	F	98%	0%	From: US 460				C	0.117	F	0.734	11000	F	2009
						To: Duckpond Dr										
Southgate Dr		NA				From: Edgewood Ln				NA			NA			
						To: Airport Rd										
Tech Center Dr		5000	F	97%	0%	From: Forecast Dr				C	0.116	F	0.601	5000	F	2009
						To: Southgate Dr										
Toms Creek Road		1800	F	99%	0%	From: US 460				C	0.113	F	0.679	1800	F	2009
						To: Redbud Rd										