

2010
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
 2010
 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	Town of Blacksburg (Maint: 60)	0.15	NA									NA		NA		
412 Prices Fork Rd	Town of Blacksburg	1.07	27000	F	97%	2%	0%	0%	0%	0%	C	0.085	F	0.547	29000	F
412 Prices Fork Rd	Town of Blacksburg	0.28	17000	F	97%	2%	0%	0%	0%	0%	F	0.084	F	0.501	18000	F
460	Town of Blacksburg (Maint: 60)	0.40	12000	F	91%	0%	1%	1%	7%	0%	F	0.094	F	0.701	13000	F
460	Town of Blacksburg (Maint: 60)	3.30	15000	F	93%	0%	1%	1%	5%	0%	C	0.093	F	0.694	16000	F
460	Town of Blacksburg (Maint: 60)	2.97	34000	F	95%	0%	1%	1%	3%	0%	C	0.095	F	0.564	36000	F
460	Town of Blacksburg (Maint: 60)	0.72	37000	F	95%	0%	1%	1%	3%	0%	F	0.097	F	0.634	40000	F
Bus 460 Main St	Town of Blacksburg	0.29	17000	N	98%	0%	0%	0%	0%	0%	N	0.091	N	0.576	18000	N
Bus 460 Main St	Town of Blacksburg	1.01	4700	F	98%	1%	0%	0%	0%	0%	F	0.101	F	0.701	5000	F
Bus 460 Main St	Town of Blacksburg	0.87	7300	F	98%	1%	0%	0%	0%	0%	C	0.101	F	0.663	7800	F
Bus 460 Main St	Town of Blacksburg	0.44	13000	F	98%	1%	0%	0%	0%	0%	F	0.086	F	0.563	14000	F
Bus 460 Main St	Town of Blacksburg	0.26	14000	F	98%	1%	0%	0%	0%	0%	F	0.087	F	0.545	15000	F
Bus 460 Main St	Town of Blacksburg	0.17	18000	F	98%	1%	0%	0%	0%	0%	F	0.090	F	0.577	19000	F
Bus 460 Main St	Town of Blacksburg	0.53	19000	F	98%	1%	0%	0%	0%	0%	F	0.080	F	0.574	20000	F
Bus 460 Main St	Town of Blacksburg	0.19	18000	F	98%	1%	1%	0%	0%	0%	F	0.075	F	0.515	20000	F

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							2Axle	3+Axle	1Trail	2Trail						
Bus 460 Main St	From: Clay St Town of Blacksburg	0.53	19000	F	98%	1%	1%	0%	0%	0%	F	0.086	F	0.539	20000	F
Bus 460 Main St	To: Upland Rd From: Town of Blacksburg	1.00	21000	F	98%	1%	1%	0%	0%	0%	F	0.086	F	0.509	22000	F
Bus 460 Main St	To: Ellett Rd From: Town of Blacksburg	1.43	22000	F	98%	1%	1%	0%	0%	0%	C	0.091	F	0.542	23000	F
	To: US 460; SCL Blacksburg															

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						2Axle	3+Axle	1Trail	2Trail							
Town of Blacksburg																
(F618) Holiday Lane	0.03	10	R								NA			NA		01/23/2008
						From: End State Maintenance										
						To: SCL Blacksburg										
(F618) Holiday Lane	0.09	90	R								NA			NA		01/23/2008
						From: Yellow Sulphur Rd										
						To: Prices Fork Rd										
(2) University City Blvd	1.11	11000	F	98%	2%	0%	0%	0%	0%	C	0.09	F	0.583	12000	F	2010
						From: Toms Creek Rd										
(3) Givens Lane	1.57	1500	F	99%	1%	0%	0%	0%	0%	C	0.093	F	0.543	1600	F	2010
						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										
						To: 150-3165 Patrick Henry Dr										
(4) Progress St	0.32	880	F	97%	1%	1%	0%	0%	0%	C	0.097	F	0.589	940	F	2010
						From: Cherokee Dr										
						To: Northside Dr										
(4) Progress St	0.20	130	F	97%	1%	1%	0%	0%	0%	F	0.161	F	0.546	140	F	2010
						From: Givens Lane										
						To: Bus US 460										
(5) Clay St	0.92	2700	F	99%	0%	0%	1%	0%	0%	C	0.099	F	0.671	2900	F	2010
						From: ECL Blacksburg; 60-1235, Floyd St										
						To: Southgate Dr										
(3150) Airport Rd	0.23	5500	F	99%	1%	0%	0%	0%	0%	F	0.101	F	0.606	5900	F	2010
						From: Country Club Dr										
						To: Airport Rd										
(3150) Country Club Dr	0.40	3500	F	99%	1%	0%	0%	0%	0%	C	0.103	F	0.562	3700	F	2010
						From: Main St										
						To: SCL Blacksburg										
(3151) Ellett Rd	0.71	5900	F	98%	1%	0%	0%	0%	0%	C	0.085	F	0.614	6300	F	2010
						From: S Main St										
						To: WCL Blacksburg										
(3152) Prices Fork Rd	0.75	14000	F	98%	1%	1%	0%	0%	0%	C	0.094	F	0.590	15000	F	2010
						From: Hethwood Blvd										
(3152) Prices Fork Rd	0.36	18000	F	98%	1%	1%	0%	0%	0%	F	0.086	F	0.593	19000	F	2010
						From: Heather Dr										
(3152) Prices Fork Rd	0.58	25000	F	98%	1%	1%	0%	0%	0%	F	0.096	F	0.552	26000	F	2010
						From: US 460										
						To: Southgate Dr										
(3153) Airport Rd	0.37	2300	F	99%	0%	1%	0%	0%	0%	C	0.116	F	0.635	2400	F	2010
						From: Main Street										
						To: WCL Blacksburg										
(3154) Glade Rd	1.55	1100	F	99%	1%	0%	0%	0%	0%	C	0.101	F	0.634	1200	F	2010
						From: Boxwood Dr										
(3154) Glade Rd	0.46	1600	F	99%	0%	0%	0%	0%	0%	C	0.100	F	0.587	1700	F	2010
						From: Oriole Dr										
(3154) Glade Rd	0.33	4800	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.66	5100	F	2010
						From: University City Blvd										
						To: Main St										
(3156) Roanoke St	0.49	5600	F	98%	0%	1%	0%	0%	0%	C	0.095	F	0.561	5900	F	2010
						From: Owen St										
						To: Roanoke St										
(3156) Owen St	0.11	4700	F	98%	0%	2%	0%	0%	0%	C	0.092	F	0.586	5000	F	2010
						From: Harding Ave										
						To: Owen St										
(3156) Harding Ave	0.11	5300	F	98%	0%	2%	0%	0%	0%	C	0.092	F	0.579	5700	F	2010
						From: Cork Dr										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Blacksburg																
(3156) Harding Ave	0.66	4600	F	98%	0%	2%	0%	0%	0%	F	0.086	F	0.572	4900	F	2010
(3159) Tom's Creek Rd	0.96	11000	F	99%	1%	0%	0%	0%	0%	C	0.091	F	0.505	12000	F	2010
(3159) Toms Creek Rd	0.12	NA									NA			NA		
(3164) Mt Tabor Rd	0.92	3100	F	98%	1%	1%	0%	0%	0%	C	0.101	F	0.614	3300	F	2010
(3165) Patrick Henry Dr	0.79	4600	F	99%	0%	0%	0%	0%	0%	C	0.093	F	0.538	4900	F	2010
(3165) Patrick Henry Dr	0.83	11000	F	98%	2%	0%	0%	0%	0%	C	0.090	F	0.53	11000	F	2010
Apperson Dr		150	F								0.15	F	0.7	150	F	2010
Country Club Dr		660	G								NA			660	G	2010
Draper Rd		250	F								0.146	F		270	F	2010
E Clay St		3300	G	99%	0%	0%	0%	0%	0%	F	NA			3500	G	2010
Edgewood Lane		290	G								NA			290	G	2010
Hightop Road		3500	G	97%	1%	1%	1%	0%	0%	C	0.088	F	0.553	3500	G	2010
Hillcrest Dr		90	F								0.138	F	0.769	90	F	2010
Jackson St		4200	G								NA			4600	G	2010
Lucas Dr		330	F								0.102	F	0.521	330	F	2010
McBride Dr		700	F								0.09	F	0.606	740	F	2010
Meadowbrook Drive		620	G	98%	1%	1%	0%	0%	0%	C	0.089	F	0.656	620	G	2010
Nellies Cave Road		2600	G	98%	1%	1%	0%	0%	0%	C	0.101	F	0.650	2600	G	2010
Progress St		3100	F								0.095	F	0.546	3300	F	2010

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						2Axle	3+Axle	1Trail	2Trail							
Town of Blacksburg																
Ramble Rd		6400	G	97%	1%	From: Industrial Park Rd				C	0.131	F	0.843	6400	G	2010
						To: Rim Rock Rd										
Southgate Dr		11000	G	98%	0%	From: US 460				C	0.117	F	0.734	11000	G	2010
						To: Duckpond Dr										
Southgate Dr		NA				From: Edgewood Ln				NA			NA			
						To: Airport Rd										
Tech Center Dr		5000	G	97%	0%	From: Forecast Dr				C	0.116	F	0.601	5000	G	2010
						To: Southgate Dr										
Toms Creek Road		1800	G	99%	0%	From: US 460				C	0.113	F	0.679	1800	G	2010
						To: Redbud Rd										