

**2009**

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

where available

**Special Locality Report**

**113**

City of Galax

Information in this report is included in Report

**17**

(Carroll 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.

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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 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  
City of Galax

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
From: WCL Galax																
58 221 Reserve Blvd	City of Galax	0.47	8200	G	96%	0%	1%	1%	2%	0%	C	0.09	F	0.555	8900	G
To: Oldtown Rd																
From: Oldtown Rd																
58 221 Reserve Blvd; W Stuart Dr	City of Galax	1.10	7000	G	96%	0%	1%	1%	2%	0%	F	0.09	F	0.568	7600	G
To: Fries Rd																
From: Fries Rd																
58 221 W Stuart Dr	City of Galax	0.20	11000	G	96%	0%	1%	1%	2%	0%	F	0.093	F	0.566	12000	G
To: SR 89 Main St																
From: SR 89 Main St																
58 221 E Stuart Dr	City of Galax	0.34	14000	G	96%	0%	1%	1%	2%	0%	F	0.088	F	0.526	16000	G
To: Meadow St																
From: Meadow St																
58 221 E Stuart Dr	City of Galax	1.81	19000	G	96%	0%	1%	1%	2%	0%	F	0.088	F	0.502	21000	G
To: Haynes Rd																
From: Haynes Rd																
58 221 E Stuart Dr	City of Galax	1.10	16000	G	96%	0%	1%	1%	2%	0%	F	NA		17000	G	
To: ECL Galax																
From: ECL Galax																
From: SCL Galax																
89 Main St	City of Galax	1.26	5400	G	95%	0%	1%	1%	3%	0%	C	0.098	F	0.612	5900	G
To: SR 97 Pipers Gap Rd																
From: SR 97 Pipers Gap Rd																
89 Main St	City of Galax	0.90	5500	G	98%	0%	1%	0%	1%	0%	C	0.092	F	0.579	6000	G
To: Maroon Tide Dr																
From: Maroon Tide Dr																
89 Main St	City of Galax	0.16	4500	G	98%	0%	1%	0%	1%	0%	F	0.098	F	0.522	4900	G
To: Oldtown St																
From: Oldtown St																
89 Main St	City of Galax	0.63	2900	G	98%	1%	1%	0%	0%	0%	C	0.099	F	0.556	3200	G
To: US 58 Stuart Dr																
From: US 58 Stuart Dr																
From: SR 89 Main St																
97 Pipers Gap Rd	City of Galax	0.11	2300	G	98%	0%	1%	0%	1%	0%	C	0.097	F	0.713	2500	G
To: ECL Galax																
From: ECL Galax																
From: WCL Galax																
221 58 Reserve Blvd	City of Galax	0.47	8200	G	96%	0%	1%	1%	2%	0%	C	0.09	F	0.555	8900	G
To: Oldtown Rd																
From: Oldtown Rd																
221 58 Reserve Blvd; W Stuart Dr	City of Galax	1.10	7000	G	96%	0%	1%	1%	2%	0%	F	0.09	F	0.568	7600	G
To: Fries Rd																
From: Fries Rd																
221 58 W Stuart Dr	City of Galax	0.20	11000	G	96%	0%	1%	1%	2%	0%	F	0.093	F	0.566	12000	G
To: SR 89 MAIN ST																
From: SR 89 MAIN ST																
221 58 E Stuart Dr	City of Galax	0.34	14000	G	96%	0%	1%	1%	2%	0%	F	0.088	F	0.526	16000	G
To: Meadow St																
From: Meadow St																
221 58 E Stuart Dr	City of Galax	1.81	19000	G	96%	0%	1%	1%	2%	0%	F	0.088	F	0.502	21000	G
To: Haynes Rd																
From: Haynes Rd																
221 58 E Stuart Dr	City of Galax	1.10	16000	G	96%	0%	1%	1%	2%	0%	F	NA		17000	G	
To: ECL Galax																
From: ECL Galax																

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Traffic Engineering Division  
2009  
Annual Average Daily Traffic Volume Estimates By Section of Route  
City of Galax

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
<b>City of Galax</b>																
(2) Calhoun St	0.07	1900	G							0.102	F	0.545	2000	G	2009	
(3) Fries Rd	0.58	1100	G	99%	0%	1%	0%	0%	0%	C	0.102	F	0.549	1200	G	2009
(3) Fries Rd	1.03	1400	G	99%	0%	1%	0%	0%	0%	F	0.093	F	0.508	1500	G	2009
(4) Iron Bridge Rd	0.21	1200	G	99%	0%	0%	0%	0%	0%	F	0.09	F	0.619	1300	G	2009
(4051) Branch St/Chestnut Dr	0.43	590	G	99%	0%	0%	0%	0%	0%	C	0.11	F	0.653	640	G	2009
(4052) Greenville Rd	0.37	990	G	98%	0%	0%	1%	1%	0%	C	0.09	F	0.612	1100	G	2009
(4052) Stuart Dr	0.48	3700	G	97%	1%	1%	0%	0%	0%	F	0.098	F	0.517	4000	G	2009
(4052) Stuart Dr	0.29	3900	G	97%	1%	1%	0%	0%	0%	F	0.098	F	0.51	4300	G	2009
(4052) Mac Arthur St	0.19	2700	G	97%	1%	1%	0%	0%	0%	C	0.139	F	0.71	3000	G	2009
(4052) Mac Arthur St	0.31	2200	G	97%	1%	1%	0%	0%	0%	F	0.1	F	0.501	2400	G	2009
(4053) Lineberry Rd	1.21	4700	G	96%	0%	1%	0%	2%	0%	C	0.098	F	0.576	5100	G	2009
(4053) Meadow St	0.59	8000	G	96%	0%	1%	0%	2%	0%	F	0.101	F	0.544	8600	G	2009
(4054) Grayson St	0.38	2300	G	99%	0%	1%	0%	0%	0%	C	0.109	F	0.574	2500	G	2009
(4055) Jefferson St	0.12	870	G	98%	1%	0%	0%	1%	0%	F	0.111	F	0.590	940	G	2009
(4055) Jefferson St	0.29	1000	G	98%	1%	0%	0%	1%	0%	C	0.111	F	0.762	1100	G	2009
(4056) Poplar Knob Rd	0.14	1800	G	98%	1%	1%	0%	0%	0%	C	0.104	F	0.599	2000	G	2009
(4056) Poplar Knob Rd	1.08	1400	G	98%	1%	1%	0%	0%	0%	F	0.104	F	0.521	1500	G	2009
(4057) Country Club Lane	0.21	930	G	99%	0%	0%	0%	0%	0%	F	0.118	F	0.61	1000	G	2009
(4057) Country Club Lane	0.78	2600	G	99%	0%	0%	0%	0%	0%	C	0.098	F	0.554	2800	G	2009
(4057) Larkspur Lane	0.32	1200	G	99%	0%	0%	0%	0%	0%	F	0.099	F	0.564	1300	G	2009
(4058) Glendale Rd	0.62	6600	G	97%	1%	1%	0%	1%	0%	C	0.098	F	0.563	7100	G	2009



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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							
<b>City of Galax</b>																
(4058) Glendale Rd	1.05	6200	G	98%	0%	1%	0%	0%	0%	C	0.096	F	0.574	6700	G	2009
						From: Cliffview Rd										
						To: Haynes Rd										
(4058) Glendale Rd	1.02	3900	G	98%	0%	1%	0%	0%	0%	F	0.098	F	0.58	4200	G	2009
						From: NCL Galax										
						To: Glendale Rd										
(4059) Cliffview Rd	0.39	4300	G	98%	0%	1%	0%	1%	0%	C	0.113	F	0.521	4600	G	2009
						From: NCL Galax										
						To: Glendale Rd										
(4060) Cranberry Rd	0.24	2800	G	97%	1%	1%	1%	1%	0%	C	0.097	F	0.567	3000	G	2009
						From: US 58 Stuart Dr										
(4060) Cranberry Rd	0.30	2000	G	97%	1%	1%	1%	1%	0%	F	0.098	F	0.608	2200	G	2009
						From: ECL Galax										
						To: Eastview St										
Calloway St		220	G								0.132	F	0.528	240	G	2009
						From: Hanks St										
						To: Stanley Dr										
Clover St		1000	G								0.097	F	0.554	1100	G	2009
						From: Valley St										
						To: Country Club Lane										
Forrest Ave		130	G								0.118	F	0.556	140	G	2009
						From: Burwell St										
						To: Doctors Park										
Hospital Dr		3100	G	99%	0%	1%	0%	0%	0%	C	0.087	F	0.613	3100	G	2009
						From: Valley St										
						To: Piine Knoll Dr										
Kenbrook Dr		290	G								NA			320	G	2009
						From: Scotland Dr										
						To: 113-4058 Glendale Rd										
Valley St		4700	G	99%	0%	1%	0%	0%	0%	C	0.087	F		4700	G	2009
						From: Hospital Dr										
Valley St		1300	G	97%	1%	1%	0%	1%	0%	C	0.099	F		1300	G	2009
						From: Clover St										