

2011
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.

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
 2011
 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	7500	G	96%	0%	1%	1%	2%	0%	C	0.092	F	0.568	8000	G
To: Greenville Rd W Stuart Dr																
From: Greenville Rd W Stuart Dr																
58 221 Reserve Blvd; W Stuart Dr	City of Galax	1.10	6800	G	96%	0%	1%	1%	2%	0%	F	0.089	F	0.596	7300	G
To: Fries Rd																
From: Fries Rd																
58 221 W Stuart Dr	City of Galax	0.20	10000	G	96%	0%	1%	1%	2%	0%	F	0.089	F	0.562	11000	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	0.087	F	0.540	15000	G
To: Meadow St																
From: Meadow St																
58 221 E Stuart Dr	City of Galax	1.81	20000	G	96%	0%	1%	1%	2%	0%	F	0.082	F	0.525	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%	C	0.083	F	0.543	17000	G
To: ECL Galax																
From: ECL Galax																
From: SCL Galax																
89 Main St	City of Galax	1.26	5900	G	98%	0%	1%	1%	1%	0%	C	0.09	F	0.557	6300	G
To: SR 97 Pipers Gap Rd																
From: SR 97 Pipers Gap Rd																
89 Main St	City of Galax	0.90	5800	G	99%	0%	1%	0%	0%	0%	C	0.086	F	0.542	6200	G
To: Maroon Tide Dr																
From: Maroon Tide Dr																
89 Main St	City of Galax	0.16	4800	G	99%	0%	1%	0%	0%	0%	F	0.106	F	0.555	5100	G
To: Oldtown St																
From: Oldtown St																
89 Main St	City of Galax	0.64	3200	G	99%	0%	1%	0%	0%	0%	C	0.095	F	0.506	3400	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	2500	G	98%	0%	1%	1%	1%	0%	C	0.092	F	0.609	2600	G
To: ECL Galax																
From: ECL Galax																
From: WCL Galax																
221 58 Reserve Blvd	City of Galax	0.47	7500	G	96%	0%	1%	1%	2%	0%	C	0.092	F	0.568	8000	G
To: Oldtown Rd																
From: Oldtown Rd																
221 58 Reserve Blvd; W Stuart Dr	City of Galax	1.10	6800	G	96%	0%	1%	1%	2%	0%	F	0.089	F	0.596	7300	G
To: Fries Rd																
From: Fries Rd																
221 58 W Stuart Dr	City of Galax	0.20	10000	G	96%	0%	1%	1%	2%	0%	F	0.089	F	0.562	11000	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	0.087	F	0.540	15000	G
To: Meadow St																
From: Meadow St																
221 58 E Stuart Dr	City of Galax	1.81	20000	G	96%	0%	1%	1%	2%	0%	F	0.082	F	0.525	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%	C	0.083	F	0.543	17000	G
To: ECL Galax																
From: ECL Galax																

Virginia Department of Transportation
Traffic Engineering Division
2011
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							
City of Galax																
(2) Calhoun St	0.07	1900	G								0.117	F	0.630	2100	G	2011
(3) Fries Rd	0.58	1400	G	99%	0%	1%	0%	0%	0%	C	0.082	F	0.629	1500	G	2011
(3) Fries Rd	1.03	2000	G	99%	0%	1%	0%	0%	0%	F	0.089	F	0.530	2100	G	2011
(4) Iron Bridge Rd	0.21	1600	G	98%	0%	1%	1%	0%	0%	F	0.086	F	0.502	1800	G	2011
(4051) Branch St/Chestnut Dr	0.43	590	G	98%	0%	1%	1%	0%	0%	C	0.087	F	0.727	630	G	2011
(4052) Greenville Rd	0.37	1100	G	94%	0%	1%	3%	2%	0%	C	0.094	F	0.637	1200	G	2011
(4052) Stuart Dr	0.48	3300	G	99%	0%	1%	0%	0%	0%	F	0.094	F	0.525	3500	G	2011
(4052) Stuart Dr	0.29	3400	G	99%	0%	1%	0%	0%	0%	F	0.090	F	0.54	3700	G	2011
(4052) Mac Arthur St	0.19	2500	G	99%	0%	1%	0%	0%	0%	C	0.084	F	0.502	2600	G	2011
(4052) Mac Arthur St	0.31	1800	G	99%	0%	1%	0%	0%	0%	F	0.097	F	0.533	1900	G	2011
(4053) Lineberry Rd	1.21	5000	G	98%	0%	1%	1%	1%	0%	C	0.090	F	0.584	5300	G	2011
(4053) Meadow St	0.59	8900	G	98%	0%	1%	1%	1%	0%	F	0.085	F	0.531	9500	G	2011
(4054) Grayson St	0.38	2600	G	98%	0%	1%	1%	0%	0%	C	0.104	F	0.535	2800	G	2011
(4055) Jefferson St	0.12	590	G	97%	1%	1%	0%	0%	0%	F	0.117	F	0.689	630	G	2011
(4055) Jefferson St	0.29	990	G	97%	1%	1%	0%	0%	0%	C	0.11	F	0.517	1100	G	2011
(4056) Poplar Knob Rd	0.14	1900	G	99%	0%	0%	0%	0%	0%	C	0.092	F	0.546	2100	G	2011
(4056) Poplar Knob Rd	1.08	1500	G	99%	0%	0%	0%	0%	0%	F	0.096	F	0.593	1600	G	2011
(4057) Country Club Lane	0.21	1100	G	99%	0%	0%	0%	0%	0%	F	0.099	F	0.542	1200	G	2011
(4057) Country Club Lane	0.78	2900	G	99%	0%	0%	0%	0%	0%	C	0.085	F	0.527	3100	G	2011
(4057) Larkspur Lane	0.32	1500	G	99%	0%	0%	0%	0%	0%	F	0.081	F	0.578	1600	G	2011
(4058) Glendale Rd	0.62	7500	G	99%	0%	0%	0%	0%	0%	F	0.086	F	0.597	8000	G	2011

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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							
City of Galax																
(4058) Glendale Rd	1.05	6800	G	99%	0%	0%	0%	0%	0%	C	0.087	F	0.593	7200	G	2011
From: Cliffview Rd																
To: Haynes Rd																
(4058) Glendale Rd	1.02	4500	G	99%	0%	0%	0%	0%	0%	F	0.094	F	0.692	4800	G	2011
From: NCL Galax																
To: Glendale Rd																
(4059) Cliffview Rd	0.39	5300	G	98%	0%	1%	0%	0%	0%	C	0.085	F	0.665	5700	G	2011
From: Glendale Rd																
To: NCL Galax																
(4060) Cranberry Rd	0.24	3200	G	97%	0%	0%	1%	0%	0%	C	0.099	F	0.539	3400	G	2011
From: Glendale Rd																
To: US 58 Stuart Dr																
(4060) Cranberry Rd	0.30	2200	G	97%	0%	0%	1%	1%	0%	F	0.092	F	0.573	2300	G	2011
From: US 58 Stuart Dr																
To: ECL Galax																
Calloway St		270	G								0.102	F	0.548	290	G	2011
From: Eastview St																
To: Hanks St																
Clover St		1100	G								0.091	F	0.59	1100	G	2011
From: Stanley Dr																
To: Valley St																
Forrest Ave		130	G								0.128	F	0.514	140	G	2011
From: Country Club Lane																
To: Burwell St																
Hospital Dr		3100	G								NA			3100	G	2011
From: Doctors Park																
To: Valley St																
Kenbrook Dr		340	G								0.091	F	0.543	370	G	2011
From: Piine Knoll Dr																
To: Scotland Dr																
Valley St		4700	G								NA			4700	G	2011
From: 113-4058 Glendale Rd																
To: Hospital Dr																
Valley St		1300	G								NA			1300	G	2011
From: Hospital Dr																
To: Clover St																