

**2007**

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

where available

**Special Locality Report**

**253**

Town of Leesburg

Information in this report is included in Report

**53**

(Loudoun 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  
2007  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Leesburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
7 Market St West	Town of Leesburg (Maint: 53)	1.85	58000	G	97%	0%	1%	1%	1%	0%	F	0.081	F	0.842	65000	G
7 15 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.44	64000	F	96%	1%	1%	1%	1%	0%	C	0.085	F	0.803	69000	F
7 15 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.63	50000	F	96%	1%	1%	1%	2%	0%	C	0.076	F	0.514	54000	F
7 15 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.53	52000	F	95%	1%	1%	1%	2%	0%	C	0.076	F	0.515	56000	F
7 Market St East	Town of Leesburg (Maint: 53)	1.83	66000	G	97%	0%	1%	1%	1%	0%	F	0.072	F	0.57	71000	G
Bus 7 Market St	Town of Leesburg	0.12	16000	G	99%	0%	1%	0%	0%	0%	F	0.096	F	0.787	17000	G
Bus 7 Market St	Town of Leesburg	0.25	13000	G	99%	0%	1%	0%	0%	0%	C	0.092	F	0.764	15000	G
Bus 7 Market St	Town of Leesburg	0.27	9800	G	99%	0%	1%	0%	0%	0%	F	0.095	F	0.745	11000	G
Bus 7 Market St	Town of Leesburg	0.36	10000	G	99%	0%	1%	0%	0%	0%	F	0.092	F	0.675	11000	G
Bus 7 Market St	Town of Leesburg	0.09	13000	G	98%	0%	1%	0%	0%	0%	F	0.079	F	0.523	14000	G
Bus 7 Market St	Town of Leesburg	0.23	10000	G	98%	0%	1%	0%	0%	0%	C	0.077	F	0.550	11000	G
Bus 7 Market St	Town of Leesburg	0.27	21000	G	98%	0%	1%	0%	0%	0%	F	0.085	F	0.514	23000	G
Bus 7 Market St	Town of Leesburg	0.71	37000	G	98%	0%	1%	0%	0%	0%	F	0.074	F	0.544	40000	G
15 King St	Town of Leesburg	1.09	19000	G	91%	1%	2%	2%	5%	0%	C	0.079	F	0.595	21000	G
15 King St	Town of Leesburg	0.38	36000	G	91%	1%	2%	2%	5%	0%	F	0.082	F	0.61	39000	G
15 7 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.44	64000	F	96%	1%	1%	1%	1%	0%	C	0.085	F	0.803	69000	F

Virginia Department of Transportation  
Traffic Engineering Division  
2007  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Leesburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
							From: SR 267									
15 7 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.63	50000	F	96%	1%	1%	1%	2%	0%	C	0.076	F	0.514	54000	F
							To: Sycolin Rd									
15 7 Leesburg Bypass	Town of Leesburg (Maint: 53)	0.53	52000	F	95%	1%	1%	1%	2%	0%	C	0.076	F	0.515	56000	F
							From: SR 7 Market Street East									
15 Leesburg Bypass	Town of Leesburg	0.75	53000	G	95%	1%	1%	1%	3%	0%	F	0.078	F	0.627	55000	G
							From: 253-4208 Edwards Ferry Rd									
15 Leesburg Bypass	Town of Leesburg	1.18	31000	G	95%	1%	1%	1%	3%	0%	F	0.080	F	0.634	33000	G
							To: NCL Leesburg									
Bus 15 King St	Town of Leesburg	0.56	28000	G	97%	1%	From: US 15, SR 7				C	0.096	F	0.612	31000	G
							To: 253-4200 Catoctin Circle									
Bus 15 King St	Town of Leesburg	0.08	13000	G	97%	1%	1%	0%	1%	0%	F	0.092	F	0.553	15000	G
							From: Fairfax St									
Bus 15 King St	Town of Leesburg	0.40	12000	G	97%	1%	1%	0%	1%	0%	F	0.087	F	0.511	13000	G
							From: 253-4206 Loudoun St									
Bus 15 King St	Town of Leesburg	0.23	11000	G	98%	1%	1%	0%	0%	0%	F	0.082	F	0.549	12000	G
							From: North St									
Bus 15 King St	Town of Leesburg	0.87	10000	G	98%	1%	1%	0%	0%	0%	F	0.091	F	0.532	11000	G
							To: NCL Leesburg									
East 267 Dulles Greenway	Town of Leesburg (Maint: TOL)	0.69	17000	N	98%	0%	From: US 15 Leesburg Bypass				N	0.167	N	18000	N	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		36000	N	98%	0%	1%	0%	1%	0%	N	NA		39000	N	
							To: SCL Leesburg									
West 267 Dulles Greenway	Town of Leesburg (Maint: TOL)	0.70	19000	F	98%	0%	From: US 15 Leesburg Bypass				F	0.149	F	20000	F	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		36000	N	98%	0%	1%	0%	1%	0%	N	NA		39000	N	
							To: SCL Leesburg									



Virginia Department of Transportation  
Traffic Engineering Division  
2007  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Leesburg

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
<b>Town of Leesburg</b>																	
(F826)	0.06	NA				From: WCL Leesburg					NA			NA			
						To: Dead End											
(F929)	0.25	NA				From: Cul-de-Sac					NA			NA			
						To: Dead End											
(9282 5.3)	0.08	280	R			From: 253-4200 Catocin Circle					NA			NA		1999	
						To: Dead End											
(9284 5.3)	0.01	380	R			From: Douglas Elementary School					NA			NA		1999	
						To: Douglas Elementary School											
(9536 5.3)	Loudoun Co High Schoo 0.13	610	R			From: Dead End					NA			NA		1999	
						To: 253-4205 Dry Mill Rd											
(1)	Battlefield Pkwy	0.83	7000	G	98%	1%	1%	0%	0%	0%	C	0.103	F	0.525	7700	G	2007
						From: Bus US 15 King St											
(1)	Battlefield Pkwy	0.42	4000	G	97%	1%	2%	0%	0%	0%	C	0.123	F	0.566	4300	G	2007
						From: US 15 Leesburg Bypass											
(1)	Battlefield Pkwy	0.98	NA			From: Smartts Lane					NA			NA			
						To: 253-4208; Gap											
(1)	Battlefield Pkwy	0.59	NA			From: 253-3; Gap					NA			NA			
						To: SR 7 Market St E											
(3)	Fort Evans Rd	0.84	9300	G	98%	0%	1%	0%	0%	0%	C	0.095	F	0.556	10000	G	2007
						From: US 15 Leesburg Bypass											
						To: 53-773 River Creek Pkwy; Old ECL Leesburg											
(4)	Plaza St	0.44	10000	G	98%	1%	1%	0%	0%	0%	F	0.092	F	0.602	11000	G	2007
						From: Bus SR 7 Market St											
(4)	Plaza St	0.48	4700	G	98%	1%	1%	0%	0%	0%	C	0.106	F	0.633	5200	G	2007
						From: 253-4208 Edwards Ferry Rd											
(4)	Plaza St	0.32	2500	G	98%	1%	1%	0%	0%	0%	F	0.116	F	0.706	2700	G	2007
						From: Rust Dr											
						To: Battlefield Pkwy											
(5)		0.29	NA			From: SR 7 Market St E					NA			NA			
						To: NCL Leesburg											
(4200)	Catocin Circle	0.84	NA			From: 253-1 Battlefield Pkwy					NA			NA			
						To: 253-4208 Edwards Ferry Rd											
(4200)	Catocin Circle	0.29	7700	G	97%	0%	2%	0%	0%	0%	F	0.097	F	0.515	8400	G	2007
						From: Bus 7, Market St E											
(4200)	Catocin Circle	0.17	17000	G	97%	0%	2%	0%	0%	0%	F	0.089	F	0.552	19000	G	2007
						From: South St											
(4200)	Catocin Circle	0.63	18000	G	97%	0%	2%	0%	0%	0%	C	0.089	F	0.571	20000	G	2007
						From: US 15 King St S											
(4200)	Catocin Circle	0.57	7900	G	97%	0%	2%	0%	0%	0%	F	0.113	F	0.757	8700	G	2007
						From: Dry Mill Rd											
(4200)	Catocin Circle	0.38	4700	G	97%	0%	2%	0%	0%	0%	F	0.109	F	0.729	5200	G	2007
						From: Childrens Center Rd											
(4200)	Catocin Circle	0.29	3800	G	97%	0%	2%	0%	0%	0%	F	0.103	F	0.687	4100	G	2007
						From: Market St W											
(4200)	Fairview St	0.64	2800	G	97%	0%	2%	0%	0%	0%	F	0.142	F	0.542	3000	G	2007
						From: Old Waterford Rd											

Virginia Department of Transportation  
Traffic Engineering Division  
2007  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Leesburg

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Leesburg</b>																
(4201) Sycolin Rd	1.61	7600	G	92%	3%	From: SCL Leesburg				F	0.098	F	0.72	8300	G	2007
(4201) Sycolin Rd	0.64	12000	G	92%	3%	To: US 15 Leesburg Bypass				F	0.095	F	0.608	13000	G	2007
(4205) Dry Mill Rd	0.59	5400	G	98%	0%	From: WCL Leesburg				C	0.205	F	0.954	5800	G	2007
(4205) Dry Mill Rd	0.25	5500	G	98%	0%	To: Lee Ave				F	0.167	F	0.754	6000	G	2007
(4205) Dry Mill Rd	0.49	3000	G	98%	0%	From: Catoclin Circle				F	0.126	F	0.614	3300	G	2007
(4205) Ayr St	0.09	780	G	98%	0%	From: W Loudoun St				F	0.122	F		850	G	2007
(4206) Loudoun St	0.28	5600	G	99%	0%	To: Loudoun St				C	0.097	F	0.867	6100	G	2007
(4206) Loudoun St	0.35	8700	G	98%	0%	From: Market St				F	0.095	F	0.706	9500	G	2007
(4206) Loudoun St	0.30	11000	G	98%	0%	To: Market St W				C	0.097	F	0.518	12000	G	2007
(4208) Edwards Ferry Rd	0.11	4000	G	99%	0%	From: 253-4205 Ayr St				F	0.094	F	0.546	4300	G	2007
(4208) Edwards Ferry Rd	0.41	4500	G	99%	0%	To: Bus US 15				C	0.096	F	0.501	5000	G	2007
(4208) Edwards Ferry Rd	0.20	10000	G	99%	0%	From: Market St E				F	0.093	F	0.527	11000	G	2007
(4208) Edwards Ferry Rd	0.15	11000	G	99%	0%	To: Prince St				F	0.093	F	0.531	12000	G	2007
(4208) Edwards Ferry Rd	0.51	16000	G	99%	0%	From: Washington St				F	0.089	F	0.572	18000	G	2007
(4208) Edwards Ferry Rd	0.66	5200	N	98%	1%	To: Plaza St				N	0.107	N	0.648	5300	N	2007
(4209) Evergreen Mill Rd	1.01	12000	G	94%	2%	From: US 15				C	0.111	F	0.632	14000	G	2007
(4209) Evergreen Mill Rd	0.01	9800	N	92%	2%	To: Battlefield Pkwy				N	0.103	N	0.730	10000	N	2007
(4210) Country Club Dr	0.40	2500	G	98%	1%	From: US 15				F	0.097	F	0.515	2700	G	2007
Cardinal Park Dr		5700	G			To: Bradfield Dr				0.089	F		5700	G	2007	
Catoclin Circle		410	G			From: US 15 King St				0.099	F		410	G	2007	
Governors Dr		1300	G			To: Trailview Blvd				0.105	F	0.753	1300	G	2007	
Trailview Blvd Prop		1800	G			From: Market St				0.132	F	0.548	1800	G	2007	
						To: Grafton Way										
						From: Southview Pl										
						To: Country Club Dr										
						From: US 15										
						To: Dead End										
						From: Cardinal Park Dr										