

**2015**  
**Virginia Department of Transportation**  
**Daily Traffic Volume Estimates**  
**Including Vehicle Classification Estimates**  
where available

**Special Locality Report**  
**235**  
Town of Herndon

Information in this report is included in Report  
**29**  
(Fairfax 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

- North  
 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
-  Bypass - 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  
 2015  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 Town of Herndon

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
		From:	SCL Herndon, 29-657 Centreville Rd														
228 Elden St	Town of Herndon	0.24	36000	F	98%	1%	1%	0%	0%	0%	F	0.089	0.528	39000	F		
		To:	Herndon Pkwy														
228 Elden St	Town of Herndon	0.16	23000	G	98%	0%	1%	0%	0%	0%	F	0.093	0.585	24000	G		
		From:	Alabama Dr														
228 Elden St	Town of Herndon	0.25	19000	G	98%	0%	1%	0%	0%	0%	F	0.091	0.775	20000	G		
		To:	Sterling Rd														
228 Elden St	Town of Herndon	0.42	17000	G	98%	0%	1%	0%	0%	0%	C	0.079	0.527	18000	G		
		From:	Center St														
228 Elden St	Town of Herndon	0.09	18000	G	98%	0%	1%	0%	0%	0%	F	0.077	0.525	19000	G		
		To:	Spring St														
228 Elden St	Town of Herndon	0.12	17000	G	98%	0%	1%	0%	0%	0%	F	0.078	0.503	18000	G		
		From:	235-6656 Monroe St														
		To:	235-6656 Elden St														
228 Monroe St	Town of Herndon	0.08	6400	G	98%	1%	1%	0%	0%	0%	F	0.091	0.555	6800	G		
		From:	Pine St														
228 Monroe St	Town of Herndon	0.26	5500	G	98%	1%	1%	0%	0%	0%	C	0.097	0.636	5900	G		
		To:	Park Ave														
		From:	Monroe St														
228 Park Ave	Town of Herndon	0.19	6300	G	98%	1%	1%	0%	0%	0%	F	0.099	0.592	6700	G		
		To:	Grant St														
228 Park Ave	Town of Herndon	0.14	6600	G	98%	1%	1%	0%	0%	0%	F	0.099	0.626	7000	G		
		From:	Dranesville Rd														
		To:	Park Ave														
228 Dranesville Rd	Town of Herndon	0.08	7500	N	98%	1%	1%	0%	0%	0%	N	0.1	0.628	8000	N		
		From:	Worcester St														
228 Dranesville Rd	Town of Herndon	0.26	7500	G	98%	1%	1%	0%	0%	0%	C	0.1	0.628	8000	G		
		To:	Herndon Pkwy														
228 Dranesville Rd	Town of Herndon	0.23	17000	G	99%	0%	1%	0%	0%	0%	F	0.101	0.648	18000	G		
		From:	NCL Herndon														
East		From:	WCL Herndon														
267 Dulles Toll Rd	Town of Herndon (Maint: 29)	0.37	45000	F	98%	0%	0%	0%	0%	0%	F	0.121		54000	F		
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		92000	F	98%	0%	1%	0%	1%	0%	F	0.094	F	0.642	109000	F	
		To:	29-7100 Fairfax County Pkwy; ECL Herndon														
West		From:	WCL Herndon														
267 Dulles Toll Rd	Town of Herndon (Maint: 29)	0.37	46000	F	98%	0%	1%	0%	1%	0%	F	0.12		55000	F		
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		92000	F	98%	0%	1%	0%	1%	0%	F	0.094	F	0.642	109000	F	
		To:	ECL Herndon														

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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>Town of Herndon</b>																
(9606) 29	0.28	320	R								NA		NA			1991
(6631) Van Buren St	0.25	22000	G	99%	1%	0%	0%	0%	0%	F	0.101		0.508	23000	G	2015
(6631) Van Buren St	0.23	8400	G	99%	1%	0%	0%	0%	0%	F	0.099		0.544	8900	G	2015
(6631) Van Buren St	0.27	8900	G	99%	1%	0%	0%	0%	0%	C	0.103		0.559	9500	G	2015
(6631) Van Buren St	0.25	11000	G	99%	1%	0%	0%	0%	0%	F	0.101		0.564	12000	G	2015
(6631) Van Buren St	0.20	7800	G	99%	1%	0%	0%	0%	0%	F	0.095		0.648	8300	G	2015
(6654) Spring St	0.41	10000	G	99%	0%	0%	0%	0%	0%	C	0.101		0.618	11000	G	2015
(6654) Spring St	0.22	12000	G	99%	0%	0%	0%	0%	0%	F	0.097		0.561	13000	G	2015
(6654) Spring St	0.19	35000	G	99%	0%	0%	0%	0%	0%	F	0.092		0.533	37000	G	2015
(6656) Sterling Rd	0.24	35000	G	99%	0%	1%	0%	0%	0%	F	0.077		0.524	37000	G	2015
(6656) Sterling Rd	0.31	12000	G	99%	0%	1%	0%	0%	0%	C	0.08		0.682	13000	G	2015
(6656) Sterling Rd	0.38	15000	G	99%	0%	1%	0%	0%	0%	F	0.087		0.565	16000	G	2015
(6656) Elden St	0.72	20000	G	99%	0%	1%	0%	0%	0%	F	0.077		0.54	22000	G	2015
(6656) Elden St	0.30	31000	G	99%	0%	1%	0%	0%	0%	F	0.084		0.536	33000	G	2015
(6658) Herndon Pkwy	1.02	21000	G	98%	1%	1%	0%	0%	0%	C	0.091		0.593	23000	G	2015
(6658) Herndon Pkwy	0.48	13000	G	99%	1%	1%	0%	0%	0%	C	0.104		0.651	14000	G	2015
(6658) Herndon Pkwy	0.23	13000	G	99%	1%	1%	0%	0%	0%	F	0.101		0.661	14000	G	2015
(6658) Herndon Pkwy	0.95	17000	G	99%	1%	1%	0%	0%	0%	F	0.103		0.605	18000	G	2015
(6658) Herndon Pkwy	0.61	14000	G	99%	1%	1%	0%	0%	0%	F	0.094		0.577	14000	G	2015
(6660) Herndon Pkwy	1.42	11000	G	99%	0%	0%	0%	0%	0%	C	0.108		0.760	12000	G	2015
(6660) Herndon Pkwy	1.32	11000	G	97%	1%	1%	1%	0%	0%	C	0.093		0.593	11000	G	2015
(6660) Herndon Pkwy	0.38	16000	G	97%	1%	1%	1%	0%	0%	F	0.101		0.501	17000	G	2015



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						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Herndon</b>																
6883 Crestview Dr	0.40	11000	G	99%	1%	From Herndon Pkwy				C	0.101		0.646	12000	G	2015
						To NCL Herndon										
Ferndale Avenue		4800	G			From Elden Street					0.099		0.531	4800	G	2015
						To Vine Street										
Ferndale Avenue		4700	G			From Park Ave					0.101		0.553	4700	G	2015
						To Herndon Parkway										
Monroe St		1100	G			From 1st Street					0.117		0.652	1100	G	2015
						To 2nd Street										
Old Dominion Avenue		160	G			From Alabama Dr					0.115		0.629	160	G	2015
						To Aspen Dr										
Victory Dr		1100	G			From South of Spring Street					0.115		0.557	1100	G	2015
						To End of Road										