

2019
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

151

City of Fairfax

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.

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
-  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
 2019
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Fairfax

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: WCL Fairfax															
29 Lee Highway	City of Fairfax	0.16	37000	G	99%	0%	0%	0%	0%	F	0.088	F	0.603	41000	G	
	To: Jermantown Rd															
29 Lee Highway	City of Fairfax	0.44	37000	G	99%	0%	0%	0%	0%	F	0.081	F	0.606	40000	G	
	From: US 50; SR 236 Main St															
29 50 Lee Highway	City of Fairfax	0.96	37000	G	99%	0%	0%	0%	0%	F	0.083	F	0.541	40000	G	
	To: SR 123 Chain Bridge Rd															
29 50 Lee Highway	City of Fairfax	0.21	35000	G	99%	0%	0%	0%	0%	F	0.075	F	0.629	38000	G	
	From: University Dr															
29 50 Lee Highway	City of Fairfax	0.59	37000	G	99%	0%	0%	0%	0%	F	0.081	F	0.604	41000	G	
	To: Plantation Parkway															
29 50 Lee Hwy	City of Fairfax	0.68	38000	G	99%	0%	0%	0%	0%	F	0.083	F	0.626	41000	G	
	From: Draper Drive															
29 50 Lee Highway	City of Fairfax	0.28	35000	G	99%	0%	0%	0%	0%	F	0.084	F	0.631	38000	G	
	To: US 50															
29 Lee Highway	City of Fairfax	0.08	35000	N	99%	0%	0%	0%	0%	N	0.084	F	0.631	38000	N	
	From: US 50 Fairfax Circle															
29 237 Lee Highway	City of Fairfax	0.13	34000	N	97%	2%	1%	0%	0%	N	0.087	F	0.529	NA		
	To: ECL Fairfax															
	From: WCL Fairfax															
50 Lee Jackson Hwy	City of Fairfax	0.57	32000	G	98%	1%	1%	0%	0%	F	0.077	F	0.616	35000	G	
	To: US 29 S, Lee Highway															
50 29 Lee Highway	City of Fairfax	0.96	37000	G	99%	0%	0%	0%	0%	F	0.083	F	0.541	40000	G	
	To: SR 123 Chain Bridge Rd															
50 29 Lee Highway	City of Fairfax	0.21	35000	G	99%	0%	0%	0%	0%	F	0.075	F	0.629	38000	G	
	From: University Dr															
50 29 Lee Highway	City of Fairfax	0.59	37000	G	99%	0%	0%	0%	0%	F	0.081	F	0.604	41000	G	
	To: Plantation Parkway															
50 29 Lee Hwy	City of Fairfax	0.68	38000	G	99%	0%	0%	0%	0%	F	0.083	F	0.626	41000	G	
	From: Draper Drive															
50 29 Lee Highway	City of Fairfax	0.28	35000	G	99%	0%	0%	0%	0%	F	0.084	F	0.631	38000	G	
	To: US 29 N, Lee Highway															
50 237 Arlington Blvd	City of Fairfax	0.28	32000	G	98%	1%	1%	0%	0%	F	0.080	F	0.543	35000	G	
	To: SR 237 Pickett Rd															
50 Arlington Blvd	City of Fairfax	0.03	39000	N	98%	1%	1%	0%	0%	N	0.085	F	0.592	42000	N	
	To: ECL Fairfax															
	From: SCL Fairfax															
123 Chain Bridge Rd	City of Fairfax	0.47	28000	G	98%	0%	0%	1%	1%	F	0.075	F	0.558	30000	G	
	To: Judicial Dr															

Virginia Department of Transportation
Traffic Engineering Division
2019
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Fairfax

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From:	Judicial Dr														
(123) Chain Bridge Rd	City of Fairfax	0.26	22000	G	98%	0%	0%	1%	1%	0%	F	0.073	F	0.573	23000	G
	To:	SR 236 Main St														
(123) Chain Bridge Rd	City of Fairfax	0.19	22000	G	98%	0%	0%	1%	1%	0%	F	0.073	F	0.516	24000	G
	To:	Whitehead St														
(123) Chain Bridge Rd	City of Fairfax	0.10	20000	G	98%	0%	0%	1%	1%	0%	F	0.076	F	0.599	22000	G
	To:	Kenmore Dr														
(123) Chain Bridge Rd	City of Fairfax	0.58	23000	G	98%	0%	0%	1%	1%	0%	F	0.074	F	0.555	24000	G
	To:	US 29; US 50 Lee Hwy														
(123) Chain Bridge Rd	City of Fairfax	0.35	39000	G	98%	0%	0%	1%	1%	0%	F	0.078	F	0.504	42000	G
	To:	I- 66 NCL Fairfax														
	From:	US 29 Lee Highway; US 50 Lee Jackson Hwy														
(236) Main St	City of Fairfax	0.94	38000	G	99%	0%	0%	0%	0%	0%	F	0.073	F	0.622	41000	G
	To:	West St														
(236) Main St	City of Fairfax	0.21	11000	G	99%	0%	0%	0%	0%	0%	F	0.069	F	0.537	12000	G
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			32000	G	99%	1%	0%	0%	0%	0%	F	0.076	F	0.574	33000	G
	To:	North St E														
	From:	Old Lee Hwy														
(236) Main St	City of Fairfax	1.31	40000	G	99%	0%	0%	0%	0%	0%	C	0.078	F	0.51	NA	
	To:	Whitacre Rd														
(236) Little River Tpke	City of Fairfax	0.57	41000	G	99%	0%	0%	0%	0%	0%	F	0.083	F	0.521	43000	G
	To:	ECL Fairfax														
	From:	SR 236 W, Main St														
(236) North St	City of Fairfax	0.30	20000	G	98%	1%	0%	0%	0%	0%	C	0.090	F	0.581	21000	G
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			32000	G	99%	1%	0%	0%	0%	0%	F	0.076	F	0.574	33000	G
	To:	SR 236 E, Main St														
	From:	SR 236 Main St														
(237) Pickett Rd	City of Fairfax	0.49	27000	G	96%	1%	1%	1%	2%	0%	F	0.081	F	0.561	28000	G
	To:	Colonial Ave														
(237) Pickett Rd	City of Fairfax	1.17	26000	G	96%	1%	1%	1%	2%	0%	C	0.084	F	0.533	28000	G
	To:	US 50 Arlington Blvd														
(237) (50) Arlington Blvd	City of Fairfax	0.28	32000	G	98%	1%	1%	0%	0%	0%	F	0.080	F	0.543	35000	G
	To:	US 29 Lee Highway														
(237) (29) Lee Highway	City of Fairfax	0.13	34000	N	97%	2%	1%	0%	0%	0%	N	0.087	F	0.529	NA	
	To:	ECL Fairfax														

Virginia Department of Transportation
Traffic Engineering Division
2019
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Fairfax

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Fairfax																
(F254) Phoenix Dr	0.09	30	N			Fairfax County Line					NA			NA		02/02/2015
						Fairfax County Line										
(9128/28) Rebel Run	0.18	4600	R			Fairfax High School					NA			NA		03/09/2009
						US 29 Lee Hwy										
(9598/28)	0.06	190	R			Eleven Oak Elem School					NA			NA		1991
						Eleven Oak Elem School										
(1) Judicial Dr	0.22	11000	G	99%	0%	1%	0%	0%	0%	F	0.084	F	0.521	12000	G	2019
						Page Ave										
(1) Judicial Dr	0.43	9000	G	99%	0%	1%	0%	0%	0%	C	0.081	F	0.58	9600	G	2019
						SR 123 Chain Bridge Rd										
(2) Kenmore Dr	0.19	2200	G	98%	1%	1%	0%	0%	0%	C	0.094	F	0.583	2300	G	2019
						University Dr										
(3) Layton Hall Dr	0.29	5200	G	98%	1%	1%	0%	0%	0%	C	0.098	F	0.525	5500	G	2019
						Old Lee Hwy										
(6623) Burke Station Rd	0.17	6200	G	99%	0%	0%	0%	0%	0%	C	0.094	F	0.656	6600	G	2019
						SCL Fairfax										
(6623) Burke Station Rd	0.31	6300	G	99%	0%	0%	0%	0%	0%	F	0.093	F	0.644	6700	G	2019
						Barbara Ann Lane										
(6625) Roberts Rd	0.27	9000	G	99%	0%	0%	0%	0%	0%	C	0.09	F	0.609	9500	G	2019
						SCL Fairfax										
(6625) Roberts Rd	0.25	2700	G	99%	0%	0%	0%	0%	0%	F	0.093	F	0.616	2900	G	2019
						Sager Ave										
(6627) University Dr	0.39	10000	G	96%	2%	1%	0%	0%	0%	C	0.095	F	0.543	11000	G	2019
						SCL Fairfax										
(6627) University Dr	0.21	15000	G	96%	2%	1%	0%	0%	0%	F	0.092	F	0.536	16000	G	2019
						Armstrong St										
(6627) University Dr	0.11	11000	N	96%	2%	1%	0%	0%	0%	N	0.088	F	0.522	11000	N	2019
						South St										
(6627) University Dr	0.22	11000	G	96%	2%	1%	0%	0%	0%	F	0.088	F	0.522	11000	G	2019
						SR 236 Main St										
(6627) University Dr	0.13	9900	G	96%	2%	1%	0%	0%	0%	F	0.088	F	0.505	11000	G	2019
						Whitehead St										
(6627) University Dr	0.70	6700	G	96%	2%	1%	0%	0%	0%	F	0.088	F	0.547	7100	G	2019
						Layton Hall Dr										
						Layton Hall Rd										
						US 29 & 50; Lee Hwy										
(6628) Old Lee Hwy	0.41	17000	G	97%	1%	1%	0%	0%	0%	F	0.097	F	0.626	18000	G	2019
						SR 236 Main St										
(6628) Old Lee Hwy	0.49	17000	G	97%	1%	1%	0%	0%	0%	F	0.09	F	0.593	18000	G	2019
						Layton Hall Rd										
						Layton Hall Dr										
(6628) Old Lee Hwy	0.19	15000	G	97%	1%	1%	0%	0%	0%	F	0.095	F	0.612	16000	G	2019
						Heritage Lane										
(6628) Old Lee Hwy	0.25	15000	G	97%	1%	1%	0%	0%	0%	C	0.095	F	0.622	16000	G	2019
						Brookwood Rd										
						Cornell Rd										

Virginia Department of Transportation
 Traffic Engineering Division
 2019
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Fairfax

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Fairfax																
6628 Old Lee Hwy	0.15	16000	G	97%	1%	From: Cornell Rd				F	0.096	F	0.599	17000	G	2019
						To: Rebel Run										
6628 Old Lee Hwy	0.55	15000	G	97%	1%	From: US 50 Lee Hwy				F	0.096	F	0.605	16000	G	2019
						To: US 29 Lee Highway										
6634 Jermantown Rd	0.30	14000	G	98%	1%	From: US 50 Lee Jackson Hwy				C	0.081	F	0.546	15000	G	2019
						To: Gainsborough Ct										
6634 Jermantown Rd	0.50	16000	G	97%	1%	From: NCL Fairfax				C	0.086	F	0.634	17000	G	2019
						To: Collier Road										
Addison Rd		230	G			From: Sager Avenue				F	0.137	F	0.571	230	G	2019
						To: Atlanta Street										
Confederate Lane		250	G			From: Reb Street				F	0.118	F	0.667	250	G	2019
						To: Old Post Road										
Cornwall Rd		540	G			From: Park Hill Place				F	0.122	F	0.619	540	G	2019
						To: Whitehead St										
Democracy Ln		840	G			From: Layton Hall Dr				F	0.107	F	0.511	840	G	2019
						To: US 29, US 50										
Draper Dr		4100	G			From: Kingsbridge Dr				F	0.087	F	0.653	4100	G	2019
						To: Jermantown Rd										
Orchard St		2900	G			From: McLean Ave				F	0.133	F	0.624	2900	G	2019
						To: US 50										
Pickett Rd		19000	G			From: NCL Fairfax				F	0.088	F	0.652	19000	G	2019
						To: Chain Bridge Rd										
Sager Ave		2700	G			From: Dwight Ave				F	0.114	F	0.668	2700	G	2019
						To: Chain Bridge Rd										
School St		2100	G			From: Trowbridge St				F	0.100	F	0.577	2100	G	2019
						To: SR 236										
Whitacre Rd		4400	G			From: Baccarat Dr				F	0.129	F	0.799	4400	G	2019
						To: Howerton Avenue										
Wilson St		100	G			From: Norman Avenue				F	0.149	F	0.625	100	G	2019
						To:										