2008
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
153

Town of Vienna

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
Bypas - Bypass Route
Truck - Truck Route

ALT - Alternate Route
Wye - Wye 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 Maintainenance 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
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2008
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Vienna

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
East 66	From: WCL Vienna															
	Town of Vienna (Maint: 29)	0.25	**86000**	G	96%	1%	1%	1%	2%	0%	F	NA			91000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**171000**	G	96%	1%	1%	1%	2%	0%	F	NA			182000	G
	To: ECL Vienna															
	From: SCL Vienna															
123 Maple Ave	Town of Vienna	0.07	**34000**	G	98%	0%	0%	1%	1%	0%	F	0.076	F	0.625	36000	G
	To: SR 243 Nutley St															
123 Maple Ave	From: Town of Vienna	1.53	**39000**	G	98%	0%	0%	1%	1%	0%	F	0.072	F	0.583	41000	G
	To: Follin Lane															
123 Maple Ave	From: Town of Vienna	0.50	**40000**	G	98%	0%	0%	1%	1%	0%	F	0.073	F	0.785	42000	G
	To: NCL Vienna															
	From: ECL Vienna															
243 Nutley St	Town of Vienna	0.25	**34000**	G	98%	0%	1%	0%	0%	0%	F	0.083	F	0.561	36000	G
	To: Tapawingo Rd															
243 Nutley St	From: Town of Vienna	0.63	**30000**	G	98%	0%	1%	0%	0%	0%	F	0.083	F	0.569	33000	G
	To: SR 123; 153-6643															

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Town of Vienna																
9611 29	0.03	**290**	**R**								NA			NA		1991
From: Louise Arche School To: Louise Arches School																
9619 29	0.08	**320**	**R**								NA			NA		1991
From: Vienna School To: Vienna School																
1 Electric Ave	0.34	**10000**	**G**	99%	0%	0%	0%	0%	0%	C	0.108	F	0.802	11000	G	2008
From: Follin Lane To: ECL Vienna																
2 Echols St	0.34	**4000**	**G**	99%	0%	0%	0%	0%	0%	C	0.103	F	0.716	4300	G	2008
From: Branch Rd To: Follin Lane																
3 Locust St	0.09	**5900**	**G**	98%	1%	0%	0%	0%	0%	C	0.116	F	0.592	6400	G	2008
From: Cottage St To: Courthouse Rd																
6638 Malcomb Rd	0.55	**5900**	**G**	99%	1%	1%	0%	0%	0%	C	0.119	F	0.759	6300	G	2008
From: WCL Vienna To: Lawyers Rd																
6642 Tapawingo Rd	0.62	**4800**	**G**	98%	1%	1%	0%	0%	0%	C	0.105	F	0.669	5200	G	2008
From: SR 243 Nutley St To: 153-6925 Cottage St																
6642 Tapawingo Rd	0.48	**3100**	**G**	99%	0%	1%	0%	0%	0%	C	0.115	F	0.595	3300	G	2008
From: 153-6925 Cottage St To: 153-6676 Park St																
6643 Nutley St	0.09	**5800**	**G**	99%	0%	0%	0%	0%	0%	F	0.093	F	0.526	6300	G	2008
From: Maple Ave To: Windover Ave																
6643 Nutley St	0.49	**5200**	**G**	99%	0%	0%	0%	0%	0%	C	0.096	F	0.562	5600	G	2008
From: Windover Ave To: Malcom Rd																
6648 Courthouse Rd	0.73	**9300**	**G**	100%	0%	0%	0%	0%	0%	C	0.09	F	0.552	10000	G	2008
From: SWCL Vienna To: SR 123 Maple Ave																
6648 Lawyers Rd	0.80	**16000**	**G**	100%	0%	0%	0%	0%	0%	F	0.083	F	0.523	17000	G	2008
From: SR 123 Maple Ave To: NWCL Vienna																
6668 Old Court House Rd	0.32	**11000**	**G**	99%	1%	0%	0%	0%	0%	F	0.112	F	0.815	12000	G	2008
From: 29-677; ECL Vienna To: 29-677; WCL Vienna																
6669 Beulah Rd	0.78	**14000**	**G**	99%	0%	0%	0%	0%	0%	C	0.088	F	0.606	15000	G	2008
From: SR 123 Maple Ave To: WCL Vienna																
6673 Creek Crossing Rd	0.24	**2000**	**G**	99%	0%	0%	0%	0%	0%	F	0.140	F	0.819	2100	G	2008
From: 153-6669 Beulah Rd To: 29-724 ; NCL Vienna																
6676 Park St	1.27	**13000**	**G**	99%	0%	1%	0%	0%	0%	C	0.101	F	0.519	14000	G	2008
From: ECL Vienna To: SR 123 Maple Ave																
6925 Cottage St	1.02	**5300**	**G**	98%	1%	1%	0%	0%	0%	C	0.105	F	0.658	5700	G	2008
From: 29-698 Cedar Lane To: 153-6642 Tapawingo Rd																
6925 Cottage St	0.64	**3600**	**G**	98%	2%	1%	0%	0%	0%	C	0.119	F	0.582	3900	G	2008
From: 153-6642 Tapawingo Rd To: 153-3 Locust St																
6927 Follin Lane	0.67	**8700**	**G**	99%	0%	0%	0%	0%	0%	C	0.095	F	0.758	9300	G	2008
From: SR 123 Maple Ave To: Electric Ave																
6933 Church St	0.70	**7900**	**G**	99%	0%	0%	0%	0%	0%	C	0.093	F	0.644	8500	G	2008
From: 153-6648 Lawyers Rd To: 153-6669 Beulah Rd																

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Town of Vienna																
		From: 153-6669 Beulah Rd														
(6933) Church St	0.19	**5300**	**G**	99%	0%	0%	0%	0%	0%	C	0.119	F	0.759	5700	G	2008
		To: EAST ST														
		From: Echols St														
(6934) Branch Rd	0.37	**4600**	**G**	99%	0%	0%	0%	0%	0%	C	0.117	F	0.776	4900	G	2008
		To: SR 123 Maple Ave														
		From: Park St														
(6935) Locust Lane	0.30	**7300**	**G**	99%	0%	0%	0%	0%	0%	F	0.103	F	0.793	7800	G	2008
		To: Branch Rd														
		From: Park St														
Adahi Rd		**1400**	**G**								0.101	F	0.533	1600	G	2008
		To: Glyndon St														
		From: Maple Ave														
Center St		**5800**	**G**								0.103	F	0.541	6300	G	2008
		To: Locust St														
		From: Lincoln St														
Highland St		**190**	**G**								0.161	F	0.517	210	G	2008
		To: Dead End														
		From: Overlook Lane														
Westwood Dr		**690**	**G**								0.3	F		740	G	2008
		To: Devonshire Dr														
		From: Ware St.														
Yeonas Dr		**750**	**G**								0.113	F		800	G	2008
		To: Lakewood Dr														