2010

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

where available

Special Locality Report 286

Town of Purcellville

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

North 81	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
29	US Route	
7	Virginia State Rou	te
(F241)	Frontage Road (F	precedes frontage route number)
(600)	Secondary Route	

Special Routes

Bus	Bus - Business Route	
{29}	Bypas - Bypass Route	
	Truck - Truck Route	
ALT	ALT - Alternate Route	
(220)	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.

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus		Tru 3+Axle		2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From:	W	CL Purcelly	ille												,
7 Harry Flood Byrd Hwy	Town of Purcellville (Maint: 53)	0.94	27000	G	97%	1%	1%	0%	1%	0%	F	0.094	F		31000	G
	To:	EC	CL Purcelly	ille												
Bus	From:	W	CL Purcelly	ille												
7 Main St	Town of Purcellville (Maint: 53)	2.06	9600	N	96%	2%	1%	1%	0%	0%	Ν	0.094	Ν		10000	Ν
Bus	To: From:	SR	287 Berlin	Грке												
7 Colonial Highway	Town of Purcellville (Maint: 53)	0.07	9000	N	96%	2%	1%	1%	0%	0%	N	0.127	N		9600	Ν
	To:	EC	CL Purcelly	ille												
	From:		Bus SR 7													
(287) Berlin Tpke	Town of Purcellville (Maint: 53)	0.55	4900	N	94%	2%	2%	0%	1%	0%	Ν	0.098	Ν		5300	Ν
	To:	NO	CL Purcelly	ille												

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						Town of F	Purcellville								
Route	Length	AADT	QA	4Tire	Bus		Truck +Axle 1Trai	2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Purcellville		Fron	1:			SCI Do	rcellville			-					
6 Telegraph Springs Rd	0.46	1900	N							NA			NA		04/25/2005
6 20th St	0.34	1100 From	R				0, A St			NA			NA		1999
6 20th St	0.34	3100 From	R				08, E St W, Main St			NA			NA		09/09/2008
6 Hatcher Ave	0.80	4200 To	G	97%	1%	Bus SR 7	E, Main St 1% 0% rcellville	0%	С	0.094	F	0.53	4500	G	2010
7 S 32nd St	0.61	From 3300 To	N	95%	53-690 S 1%	2% 286-14, S		llville 0%	N	0.087	N	0.636	3500	N	2010
7 S Nursery Ave	0.43	NA To	2:			286-14, S Bus SR 7,	S 32nd St W Main St			NA			NA		
7 23rd St, Hillsboro Rd	0.10	1800 Te	R				, W Main St			NA			NA		1999
7 Hillsboro Rd	0.69	From 3800	G	97%	1%	53-1604 1%	, 21st St 1% 0% rcellville	0%	F	0.097	F		4100	G	2010
8 Maple Ave S	0.65	2200	N				rcellville			NA			NA		1999
8 Maple Ave N	0.44	4900	R				W Main St			NA			NA		01/12/2005
8 Maple Ave N	0.28	1200 To	R		286-3		/alley High Scho	ool		NA			NA		1999
9 33rd St N	0.17	From 610	R		,	Bus SR 7	Main St W			NA NA			NA		1999
10 Holly Lane	0.07	70	R			286-9, 3	3rd St N			NA			NA		1999
11 W Country Club Dr	0.10	300	R				meade Circle			NA			NA		1999
11) W. Country Club Dr	0.19	300 From	R				3rd St N hols Pl			NA			NA		1999
11 W. Country Club Dr	0.08	From NA	1:			N Nicho	ols Place le-Sac			NA			NA		
12 21st St	0.13	From 2400	G	97%	1%	286-7 Hillsbo	ro Rd, 23rd St 0% 0% SR 7	0%	С	0.102	F		2500	G	2010
07 Orchard Dr	0.41	From 530	R				rsery Ave S Main St W			NA			NA		1999
14) Nursery Ave S	0.64	2100 Tr	R				t Springs Rd Main St E			NA			NA		1999
15 East G St	0.62	400 To	R			286-6,	20th St			NA			NA		1999
(16) East E St	0.27	590	R			286-6,	20th St			NA NA			NA		1999
16) Last L St	0.21	To	:			286-15, 1	East G St						14/3		1000

						I OWI	or Furce	HIVIIIE								
Route	Length	AADT	QA	4Tire	Bus			ruck e 1Trail		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Purcellville		Fron	.1			20/	15 E-+ C	7.64			-					
(16) South 12th St	0.27	1400	R			280	5-15, East C	381			NA			NA		09/15/2009
		т	h.			Bus	SR 7 Mai	n St								
		From	1:			286-	8 Maple A	ve S								
17) 9th St S	0.36	750	R			ar.		-			NA			NA		1999
		Fron					R 7 Main St									
18) N 16th St	0.07	130	R			Bus	SR 7, Main	St E			NA			NA		1999
18) 14 1041 01	0.07	Т					Cul-de-Sac	:			– "``			1471		1000
		From	n:			286-	6, Hatcher	Ave								
19) Loudoun Valley Dr	0.23	230	R								NA			NA		1999
\bigcirc		T	00				Dead End									
Burnleigh Court 22 Heronwood Court 23 Oakleigh Court 24 Bolingbrook Court		Fron	1:			28	86-6, 20th	St								
(20) East D St	0.25	280	R				C-1 4- C				NA			NA		1999
		Fron					Cul-de-Sac									
Rurnleigh Court	0.08	NA	·			-	Cul-de-Sac				 NA			NA		
(21) Burnleigh Court	0.00	Т	:			286-26	Glenmead	e Circle						IVA		
		From	1.				Glenmead									
(22) Heronwood Court	0.12	NA	-								NA			NA		
<u> </u>		Т	h.				Cul-de-Sac									
$\widehat{}$		From	n:			286-26	Glenmead	e Circle								
(23) Oakleigh Court	0.07	NA TO					~ ~				NA			NA		
):				Cul-de-Sac									
Rolingbrook Court	0.05	NA From	ı:			-	Cul-de-Sac	:			 NA			NA		
(24) Bolingbrook Court	0.03	T				286-26	Glenmead	e Circle						INA		
		Fron	1:		286-			h Springs R	d							
25) East A St	0.50	990	R		200	0, 2011 5	t, reregrap	ar oprings re	<u> </u>		NA			NA		1999
-9		Т	:		53-7	722 Linco	oln Rd, SCI	L Purcellvill	e							
		Fron	1:			W C	ountry Clu	b Dr								
(26) N Nichols Place	0.02	620	R								NA			NA		09/15/200
<u> </u>		Fron	1:			286-	29 Ashleig	h Rd								
(26) Glenmeade Circle	0.06	NA									NA			NA		
		Fron	1:					Dunridge C 8 Dunridge			+					
(26) Glenmeade Circle	0.06	NA			200-2	. r Killioc	II Ct, 200-2	o Dunnage	Ci		NA			NA		
		т				286-	34 Rockbu	m Ct								
(26) Glenmeade Circle	0.06	300 From	R								NA			NA		09/15/2009
		Т			286-22	Heronwo	od Ct: 286	-21 Burnleig	h Ct							
(26) Glenmeade Circle	0.06	NA From	1:						,		NA			NA		
		Т			286-24	Bolingbr	ook Ct: 28	5-23 Oakleig	h Ct							
(26) Glenmeade Circle	0.09	NA From	1:		200 2 .	Domigor	ook et, 20	y 20 Guiler	, 01		NA			NA		
-9		Т	o:			286-11,	W Country	Club Dr								
		Fron	n:				Cul-de-Sac									
27) Kinloch Court	0.07	NA									NA			NA		
<u> </u>		т)				Glenmead									
Dunridge Court	0.05	NA From				286-26	Glenmead	e Circle						NΙΛ		
28 Dunridge Court	0.05	NA To	:				Cul-de-Sac	:			NA T			NA		
		From	1.				N Nichols				1					
29) Ashleigh Rd	0.16	870	R			200-20	, IN INICION	, 1 1000			NA			NA		09/12/2008
		т				286-	7 Hillsboro	Rd								
		Fron	1:			286-	29 Ashleig	h Rd								
30) Dresden Court	0.04	NA									NA			NA		
$\overline{}$		Т):				Cul-de-Sac									

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Route	Length	AADT	QA	4Tire	Bus					2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
Town of Purcellville			_							ZIIGII		- dotoi		i dotoi				
O		From				FR-96	52, SC	L Purcell	lville			<u> </u>						
31) Hirst Rd	0.70	NA To				C11 1	DIA	ICI D	11 '11			NA			NA	NA		
					Н			NCL Pure										
32 Loudoun Valley High Sc	0.47	From				286	-8 W,	Maple A	ve						NA		4000	
	0.17	1100 _{To}	R			296	(O E 1	Maple A	NO.			NA		INA			1999	
		From				200			ve									
	0.19	290	R				Dea	d End				NA			NA		1999	
(33)	0.19	290 To				286-	14 Nn	rsery Av	2 A						INA		1333	
34) Rockburn Ct		From										1						
	0.08	NA	<u> </u>			286-20	6 Glen	meade C	ırcıe			NA			NA			
Rockburn Ct	0.00	To	:				Cul-c	le-Sac										
		From	:			53	3-1610	East A S	St									
35) 15th St	0.15	440	R									NA			NA		1999	
		To	:				Dead	d End										
		From					26t	h St										
K St		250	G									0.115	F		250	G	2010	
		To					Nurse	ry Ave										
		From				1	Wexfo	rd Place										
Remington Dr		340	G									0.133	F	0.511	340	G	2010	
		To					Eastg	gate Dr										
		From	G			Orc	chard E	Brook La	ne									
Wintergreen Dr	360											0.104	F	0.55	360	G	2010	
		To	-			L	ocust (Grove Di	r									

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