2018

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

where available

Special Locality Report

280

Town of Pembroke

Information in this report is included in Report

35

(Giles 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	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	Secondarv Route	
		Special Routes
Bus 29 ALT 220	Bus - Business Ro Bvpas - Bvpass R Truck - Truck Rou ALT - Alternate Ro Wve - Wve Route	oute te oute
		Southbound or Westbound direction lanes of a numbered route a different road facility than the other direction.
600		inenance Jurisdiction number is displayed below the Secondary Rount ntenance Jurisdiction is different than the jurisdiction in the title of the

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.

Deute	Jurisdiction	Longth AADT	~	4Tire	Bus		Truck			QC	К	OK	Dir	Dir AAWDT	
Route	Junsaiction	Length AADT	QA	41110	DUS	2Axle	3+Axle 1Trail		2Trail	QU	Factor	QK	Factor	AANDI	QVV
	From:	WCL Pembro	ke												
(460) W Main St	Town of Pembroke (Maint: 35)	0.86 13000	G	90%	1%	1%	1%	8%	0%	F	0.085	F	0.582	14000	G
	To	35-626 Mill F	8d												
Virginia Ave	Town of Pembroke (Maint: 35)	0.73 13000	G	90%	1%	1%	1%	8%	0%	F	0.086	F	0.6	14000	G
\searrow	To:	ECL Pembrol													

Bouto	Longth		04	4Tire	Bus		r Pembr			QC	K	QK	Dir	AAWDT	0\\/	Vear
Route Town of Pembroke	Length	AAUT	QA	41118	DUS	2Axle	3+Axle	1Trail	2Trail		Factor	QN	Factor		QW	Year
	0.00	From	Ļ			US	460 WB									05/00/0014
618 Collins Ave	0.03	170	R			110	460 ED				NA			NA		05/23/2014
618 Collins Ave	0.12	From 180	R			08	460 EB				NA			NA		10/05/2017
35		To				ECL	Pembroke									
619 Mays Hollow Rd	0.29	From 80	R			U	JS 460				NA			NA		05/23/2014
(619) Mays Hollow Rd	0.20	То				NCL	Pembroke							107		00/20/2014
		From					Pembroke					_			_	
(623) River Rd	0.42	920 ^{To}	G	98%	0%	1% 35-1404	0% E, Snidow	0%	0%	С	0.1	F	0.680	950	G	2018
		From				35-1404	W, Snidov	v St		_		_			_	
(623) Cascade Dr	0.08	830	G	99%	0%	1%	0%	0%	0%	С	0.105	F	0.606	860	G	2018
623) Cascade Dr	1.07	From 1200	G	99%	0%	<u>US 460,</u> 0%	Virginia A 0%	Ave 0%	0%	С	0.101	F	0.612	1200	G	2018
(623) Cascade Dr	-	То	4			NCL Pem				-					-	
	0.00	From	<u> </u>			SCL	Pembroke									0.4/47/00000
626 Castle Rock Rd	0.03	480	R								NA			NA		04/17/2002
626) Castle Rock Rd	0.11	From 960	R			35-140)7 Fourth S	St			NA			NA		06/17/2014
(626) Castle Rock Rd		To			35-1	405 Castle	Rock Dr:	Second S	St							
626 Castle Rock Rd	0.30	1300 ^{From}	R								NA			NA		06/17/2014
		To	4			US 460 We	60 EAST est Virgini	a Ave			_					
626 Mill St	0.49	620	G	99%	0%	0%	0%	0%	0%	С	0.131	F	0.506	640	G	2018
		To	4			35-623 So 35-623 N	uth Cascad									
626 Johnson Rd	0.10	100	R				,				NA			NA		10/05/2017
		To					Pembroke									
(631) Giles St	0.06	From 40	R			De	ead End				NA			NA		05/23/2014
G31 Giles St		То				35-74	7 Hoge St	t								
631 Giles St	0.12	From 80	R					-			NA			NA		05/23/2014
		To					4 Snidow									
695 Peck St	0.20	From 140	R			35-62	26 Mill Rd				NA			NA		05/23/2014
		To	-			35-623	Cascade I	Dr								
	0.10	From	<u> </u>			SCL	Pembroke									04/17/0000
Morrison Ave	0.18	30	R			τ	JS 460				NA			NA		04/17/2002
		From	-			35-626 C	astle Rock	k Rd								
(727) First St	0.25	100 ^{To}	R			25 1 420		1			NA			NA		06/15/2014
		From					SCL Pemb									
(742) Pembroke St	0.22	470	R			00 100	, w wan	51			NA			NA		05/23/2014
		From				35-1412	W, Circle	Dr								
742 Pembroke St	0.03	370	R								NA			NA		05/23/2014
(742) Pembroke St	0.10	To From				35-141	5 Circle E	Dr			NA			NA		05/23/2014
(742) Pembroke St	0.10	То	R			D	rin Loca									00/20/2014
742 ³⁵ Pembroke St	0.01	From 100	R			De	gin Loop				NA			NA		05/23/2014
35		To				35-140	9 Circle E	Dr								
742 Pembroke St	0.25	100	R								NA			NA		05/23/2014
	0.15	From				35-141	7 Orchard	St						NIA		05/00/001 1
(742) Pembroke St	0.15	50 ^{To}	R			35-1412	E, Circle	Dr			NA			NA		05/23/2014
							, 21010									

Route	Length	AADT	QA	4Tire	Bus		Tru ə 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Pembroke		From	1													
742 Pembroke St	0.09	80	R			55-14	12 E, Circle	Dr			NA			NA		05/23/2014
35		To]	End Loop									
(747) Hoge St	0.04	From 60	R			35-	631 Giles St				NA			NA		05/23/2014
(747) Hoge St	0.04	То				35.1	402 Wilson S	t						IN/A		00/20/2014
(747) Hoge St	0.16	From 100	R			55-1-	+02 Wilson (NA			NA		05/23/2014
35		To				35-140	04 E, Snidow 04 W, Snidow	St								
Hilton St	0.05	390	R			55-140	4 w, Shidow	/ SI			NA			NA		05/23/2014
35		From				US 4	60 W Main S	St								
(747) Hilton St	0.06	50	R								NA			NA		05/23/2014
		To	I				Dead End									
754 Ridge Rd 0.25	30	R			35-	-626 Mill St				NA			NA		05/23/2014	
		То]	Dead End									
		From				35-14	404 Snidow S	St								
Ellen St	0.06	320 ^{To}	R			LIS A	60 W Main	C+			NA			NA		10/05/2017
		From					60, W Main 747 Hoge St	51								
(1402) Wilson St 0.12	0.12	160	R			-00	747 Hoge St				NA			NA		10/05/2017
		То				35-14	404 Snidow S	St								
		From	L			US	460; 35-626									
(1403) Hillcrest Ave	0.12	330	R								NA			NA		10/05/2017
(1403) Hillcrest Ave	0.13	From 40	R			35-1	413; 35-1414	1			NA			NA		10/05/2017
(1403) 35 Hillcrest Ave	0.10	то				35-	-626 Mill St							IN/A		10/03/2017
		From				US 4	60, W Main	St								
1404 35 Snidow St	0.02	250	R								NA			NA		05/24/2014
		From				35-	631 Giles St									
1404 35 Snidow St	0.05	160	R								NA			NA		10/05/2017
(1404) Snidow St	0.04	From 320	R			35-14	402 Wilson S	St			NA			NA		10/05/2017
(1404) Snidow St	0.04	520				25.74	7 11/1	<u>.</u>						no.		10/03/2017
(1404) Snidow St	0.02	From 390	R			35-74	7 W, Hilton	St			NA			NA		10/05/2017
(1404) Snidow St		То				35-7-	47 E, Hoge S	t								
(1404) Snidow St	0.14	420 From	R			00 1	17 D, 110ge c				NA			NA		10/05/2017
(15)		To					W, Cascade West, Cascad									
(1404) Snidow St	0.03	1400	G	99%	0%	0%	0%	0%	0%	F	0.091	F	0.528	1400	G	2018
35		To					East, River									
(1404) Snidow St	0.17	980	G	97%	1%	<u> </u>	23 E, River R 0%	.a 0%	0%	С	0.103	F	0.505	980	G	2018
(1404) Snidow St		То					1401 Ellen St									
(1404) Snidow St	0.15	950	G	97%	1%	1%		0%	0%	С	0.1	F	0.54	950	G	2018
		To				35-626	Castle Rock	Rd								
(1404) Snidow St	0.02	1200	R								NA			NA		10/05/2017
<u> </u>		To					US 460									
(1405) Second St	0.07	90	R			SC	L Pembroke				NA			NA		02/28/2017
(1405) Second St		То				35-626	Castle Rock	Rd								
(1405) Castle Rock Dr	0.05	From 70	R			22 020	Lusie Rock				NA			NA		02/28/2017
		To				35-14	08 College A	ve								
(1405) Castle Rock Dr	0.05	20	R								NA			NA		02/28/2017
\smile		To	1]	Dead End									

								K		Dir			
Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail	00	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Pembroke		From				35-626 Castle Rock Rd		-					
1406 35 Third St	0.06	40	R			55 020 Custo Rock Rd		NA			NA		02/28/2017
33		To				35-1408 College Ave							
(1407) Fourth St	0.06	From 40	R			35-626 Castle Rock Rd		NA			NA		02/28/2017
(1407) Fourth St	0.00	To				35-1408 College Ave					NA		02/20/2017
		From				35-1407 Fourth St							
1408 35 College Ave	0.05	30	R					NA			NA		02/28/2017
	0.05	From	Ē			35-1406 Third St					NIA		00/00/0017
(1408) College Ave	0.05	60 ^{To}	R			35-1405 Castle Rock Dr		NA			NA		02/28/2017
		From				US 460 W Main St							
Lilly Dr	0.20	60	R					NA			NA		10/05/2017
		To				35-1415 Circle Dr							
(1409) Circle Dr	0.05	20	R					NA			NA		10/05/2017
		To				35-742 Pembroke St							
(1410) Smith Hollow Rd	0.18	60	R			US 460		NA			NA		10/05/2017
(1410) Smith Hollow Rd		То				Dead End							
~		From				Dead End							
(1411) Pembroke Park Lane	0.12	70 ^{To}	R			25 (2) (2) (1) 1 1 1		NA			NA		10/05/2017
<u> </u>		From	1			35-626 Castle Rock Rd							
(1412) Circle Dr	0.20	70	R			35-742 S, Pembroke St		NA			NA		10/05/2017
		To				35-742 N, Pembroke St							
		From				Dead End							
(1413) 35 Riverview St	0.10	30	R					NA			NA		10/05/2017
	0.15	From				35-1403; 35-1414					NIA		10/05/0017
(1413) 35) Riverview St	0.15	90 ^{To}	R			Dead End		NA			NA		10/05/2017
		From	1			35-1403; 35-1413							
(1414) 35 Center St	0.04	290	R			,		NA			NA		10/05/2017
~		To				35-1416 Smith St							
(1414) (1	0.05	130	R					NA			NA		10/05/2017
	0.10	From				35-1418 High St							10/05/0017
(1414) 35 Center St	0.16	80 To	R			Dead End		NA			NA		10/05/2017
		From	1			35-742 Pembroke St		1					
(1415) Circle Dr	0.10	50	R					NA			NA		10/05/2017
35		То				35-1409 Circle Dr; Lilly Dr							
(1416) Smith St	0.09	From				0.08 MS 35-1414 Center St					NIA		10/05/2017
(1416) Smith St	0.08	40	R					NA			NA		10/05/2017
(1416) Smith St	0.43	150	R			35-1414 Center St		NA			NA		10/05/2017
(1416) Smith St	0.10	То				Dead End							
<u> </u>		From				35-742 Pembroke St							
(1417) Orchard St	0.17	30	R					NA			NA		10/05/2017
~		To	I			Dead End							
(1418) High St	0.04	20	R			Dead End		NA			NA		10/05/2017
(1418) 35 High St		То				35-1414 Center St							
High St	0.03	From 20	R			55 THE CONCE DI		NA			NA		10/05/2017
35		To				0.03 MS 35-1414 Center St		— —					
High St	0.08	20	R					NA			NA		10/05/2017
		To				Dead End							

Route Town of Pembroke	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
(1419) 35) Croft Manner	0.10	From 80	R			Cul-de-Sac 35-626 Mill St		NA			NA		10/05/2017
(1421) Fisher Dr	0.10	From 30 To	R			35-626 Mill St Dead End		NA			NA		02/28/2017