2009
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

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
Traffic Engineering Division
2009
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Pembroke

Route	Jurisdiction	Length	**AADT**	**QA**	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From: WCL Pembroke															
460	Town of Pembroke (Maint: 35)	0.86	**12000**	**G**	91%	0%	1%	1%	7%	0%	F	NA			12000	G
	To: 35-626 Castle Ave From:															
460	Town of Pembroke (Maint: 35)	0.73	**12000**	**G**	91%	0%	1%	1%	7%	0%	F	NA			12000	G
	To: ECL Pembroke															

Virginia Department of Transportation
Traffic Engineering Division
2009
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Pembroke

Route	Length	AADT	QA	4Tire	Bus	Truck: 2Axle	Truck: 3+Axle	Truck: 1Trail	Truck: 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Pembroke																
618 35 Collins Ave	0.03	**190**	**R**								NA			NA		07/25/2008
From: US 460 WB To: US 460 EB																
618 35 Collins Ave	0.12	**140**	**R**								NA			NA		02/27/2006
From: US 460 EB To: ECL Pembroke																
619 35 Mays Hollow Rd	0.29	**130**	**R**								NA			NA		07/25/2008
From: US 460 To: NCL Pembroke																
623 35	0.42	**750**	**G**	99%	1%	0%	0%	0%	0%	F	0.105	F	0.599	790	G	2009
From: SCL Pembroke To: 35-1404 E, Snidow St																
623 35	0.08	**1000**	**G**	99%	1%	0%	0%	0%	0%	F	0.092	F	0.615	1100	G	2009
From: 35-1404 W, Snidow St To: US 460																
623 35	1.07	**1200**	**G**	99%	1%	0%	0%	0%	0%	C	0.102	F	0.504	1200	G	2009
From: US 460 To: 35-688; NCL Pembroke																
626 35	0.03	**480**	**R**								NA			NA		04/17/2002
From: SCL Pembroke To: 35-1407 Fourth St																
626 35 Castle Rock Rd	0.11	**1500**	**R**								NA			NA		07/25/2008
From: 35-1407 Fourth St To: 35-1405 Castle Rock Dr; Second St																
626 35 Castle Rock Rd	0.30	**1800**	**R**								NA			NA		07/25/2008
From: 35-1405 Castle Rock Dr; Second St To: US 460 EAST																
626 35 Mill St	0.49	**610**	**G**	98%	0%	1%	0%	0%	0%	C	0.121	F	0.506	640	G	2009
From: US 460 West Virginia Ave To: 35-623 South Cascade Dr																
626 35 Johnson Rd	0.10	**90**	**R**								NA			NA		02/27/2006
From: 35-623 NORTH To: NCL Pembroke																
631 35 Giles St	0.06	**40**	**R**								NA			NA		07/30/2008
From: Dead End To: 35-747 Hoge St																
631 35 Giles St	0.12	**100**	**R**								NA			NA		07/30/2008
From: 35-747 Hoge St To: 35-1404 Snidow St																
695 35 Peck St	0.20	**120**	**R**								NA			NA		07/25/2008
From: 35-626 Mill Rd To: 35-623 Cascade Dr																
701 35 Morrison Ave	0.18	**30**	**R**								NA			NA		04/17/2002
From: SCL Pembroke To: US 460																
727 35 First St	0.25	**80**	**R**								NA			NA		07/25/2008
From: 35-626 Castle Rock Rd To: 35-1420, SCL Pembroke																
742 35 Pembroke St	0.22	**430**	**R**								NA			NA		07/30/2008
From: US 460 To: 35-1412 W, Circle Dr																
742 35 Pembroke St	0.03	**400**	**R**								NA			NA		07/30/2008
From: 35-1412 W, Circle Dr To: 35-1415 Circle Dr																
742 35 Pembroke St	0.10	**190**	**R**								NA			NA		07/30/2008
From: 35-1415 Circle Dr To: Begin Loop																
742 35 Pembroke St	0.01	**110**	**R**								NA			NA		07/30/2008
From: Begin Loop To: 35-1409 Circle Dr																
742 35 Pembroke St	0.25	**100**	**R**								NA			NA		07/30/2008
From: 35-1409 Circle Dr To: 35-1417 Orchard St																
742 35 Pembroke St	0.15	**48**	**R**								NA			NA		07/30/2008
From: 35-1417 Orchard St To: 35-1412 E, Circle Dr																

Virginia Department of Transportation
Traffic Engineering Division
2009
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Pembroke

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Pembroke																
(742) Pembroke St	0.09	**90**	From: 35-1412 E, Circle Dr **R** To: End Loop								NA			NA		07/30/2008
(747) Hoge St	0.04	**70**	From: 35-631 Giles St **R** To: 35-1402 Wilson St								NA			NA		07/30/2008
(747) Hoge St	0.16	**120**	From: 35-1402 Wilson St **R** To: 35-1404 E, Snidow St								NA			NA		07/25/2008
(747) Hilton St	0.05	**440**	From: 35-1404 W, Snidow St **R** To: US 460								NA			NA		07/25/2008
(747) Hilton St	0.06	**50**	From: US 460 **R** To: Dead End								NA			NA		07/25/2008
(754) Ridge Rd	0.25	**30**	From: 35-626 Mill St **R** To: Dead End								NA			NA		07/25/2008
(1401) Ellen St	0.06	**230**	From: 35-1404 Snidow St **R** To: US 460								NA			NA		03/27/2006
(1402) Wilson St	0.12	**120**	From: 35-747 Hoge St **R** To: 35-1404 Snidow St								NA			NA		03/27/2006
(1403) Hillcrest Ave	0.12	**320**	From: US 460; 35-626 **R** To: 35-1413; 35-1414								NA			NA		02/27/2006
(1403) Hillcrest Ave	0.13	**20**	From: 35-1413; 35-1414 **R** To: 35-626 Mill St								NA			NA		02/27/2006
(1404) Snidow St	0.02	**270**	From: US 460 **R** To: 35-631 Giles St								NA			NA		07/30/2008
(1404) Snidow St	0.05	**160**	From: 35-631 Giles St **R** To: 35-1402 Wilson St								NA			NA		03/27/2006
(1404) Snidow St	0.04	**310**	From: 35-1402 Wilson St **R** To: 35-747 W, Hilton St								NA			NA		03/27/2006
(1404) Snidow St	0.02	**410**	From: 35-747 W, Hilton St **R** To: 35-747 E, Hoge St								NA			NA		03/27/2006
(1404) Snidow St	0.14	**470**	From: 35-747 E, Hoge St **R** To: 35-623 WEST								NA			NA		03/27/2006
(1404) Snidow St	0.03	**1400**	From: 35-623 WEST **G**	99%	1%	0%	0%	0%	0%	F	0.103	F	0.541	1500	G	2009
(1404) Snidow St	0.17	**930**	From: 35-623 EAST **R** To: 35-1401 Ellen St								NA			NA		03/27/2006
(1404) Snidow St	0.15	**1000**	From: 35-1401 Ellen St **R** To: 35-626 Castle Rock Rd								NA			NA		03/27/2006
(1404) Snidow St	0.02	**1300**	From: 35-626 Castle Rock Rd **R** To: US 460								NA			NA		03/27/2006
(1405) Second St	0.07	**70**	From: SCL Pembroke **R** To: 35-626 Castle Rock Rd								NA			NA		03/27/2006
(1405) Castle Rock Dr	0.05	**60**	From: 35-626 Castle Rock Rd **R** To: 35-1408 College Ave								NA			NA		03/27/2006
(1405) Castle Rock Dr	0.05	**10**	From: 35-1408 College Ave **R** To: Dead End								NA			NA		03/27/2006

Route	Length	AADT	QA	4Tire	Bus	Truck: 2Axle	Truck: 3+Axle	Truck: 1Trail	Truck: 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Pembroke																
1406 35 Third St	0.06	**40**	From: 35-626 Castle Rock Rd **R** To: 35-1408 College Ave								NA			NA		03/27/2006
1407 35 Fourth St	0.06	**40**	From: 35-626 Castle Rock Rd **R** To: 35-1408 College Ave								NA			NA		03/27/2006
1408 35 College Ave	0.05	**30**	From: 35-1407 Fourth St **R** To: 35-1406 Third St								NA			NA		03/27/2006
1408 35 College Ave	0.05	**70**	From: 35-1406 Third St **R** To: 35-1405 Castle Rock Dr								NA			NA		03/27/2006
1409 35 Lilly Dr	0.20	**45**	From: US 460 **R** To: 35-1415 Circle Dr								NA			NA		03/13/2006
1409 35 Circle Dr	0.05	**10**	From: 35-1415 Circle Dr **R** To: 35-742 Pembroke St								NA			NA		03/13/2006
1410 35 Smith Hollow Rd	0.18	**50**	From: US 460 **R** To: Dead End								NA			NA		02/27/2006
1411 35 Pembroke Park Lane	0.12	**60**	From: Dead End **R** To: 35-626 Castle Rock Rd								NA			NA		03/29/2006
1412 35 Circle Dr	0.20	**70**	From: 35-742 S, Pembroke St **R** To: 35-742 N, Pembroke St								NA			NA		03/13/2006
1413 35 Riverview St	0.10	**20**	From: Dead End **R** To: 35-1403; 35-1414								NA			NA		02/27/2006
1413 35 Riverview St	0.15	**40**	From: 35-1403; 35-1414 **R** To: Dead End								NA			NA		02/27/2006
1414 35 Center St	0.04	**240**	From: 35-1403; 35-1413 **R** To: 35-1416 Smith St								NA			NA		02/27/2006
1414 35 Center St	0.05	**100**	From: 35-1416 Smith St **R** To: 35-1418 High St								NA			NA		02/27/2006
1414 35 Center St	0.16	**40**	From: 35-1418 High St **R** To: Dead End								NA			NA		02/27/2006
1415 35 Circle Dr	0.10	**40**	From: 35-742 Pembroke St **R** To: 35-1409 Circle Dr; Lilly Dr								NA			NA		03/13/2006
1416 35 Smith St	0.08	**20**	From: 0.08 MS 35-1414 Center St **R** To: 35-1414 Center St								NA			NA		02/27/2006
1416 35 Smith St	0.43	**110**	From: 35-1414 Center St **R** To: Dead End								NA			NA		02/27/2006
1417 35 Orchard St	0.17	**10**	From: 35-742 Pembroke St **R** To: Dead End								NA			NA		03/13/2006
1418 35 High St	0.04	**8**	From: Dead End **R** To: 35-1414 Center St								NA			NA		02/27/2006
1418 35 High St	0.03	**10**	From: 35-1414 Center St **R** To: 0.03 MS 35-1414 Center St								NA			NA		02/27/2006
1418 35 High St	0.08	**10**	From: 0.03 MS 35-1414 Center St **R** To: Dead End								NA			NA		02/27/2006

Virginia Department of Transportation
Traffic Engineering Division
2009
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Pembroke

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Pembroke																
1419 35 Croft Manner	0.10	**30**	From: Cul-de-Sac **R** To: 35-626 Mill St								NA			NA		02/27/2006
1421 35 Fisher Dr	0.10	**10**	From: 35-626 Mill St **R** To: Dead End								NA			NA		02/27/2006
9161 35 Eastern Elem/Mid Scho	0.05	**370**	From: Dead End **R** To: US 460								NA			NA		09/05/2008