2005
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report
319

Town of Wachapreague

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 Peak Hour 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 Peak Hour 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 Route

F241 — Frontage Road (F precedes frontage route number)

600 — Secondary Route

Special Routes

Bus 29 — Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route
ALT 220 — ALT - Alternate Route
Wye - Wye Route connector

11 P — P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.

600 154 — 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.

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2005
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Wachapreague

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
180	From: WCL Wachapreague Town of Wachapreague (Maint: 01) To: 01-1701	0.28	**1200**	**N**	98%	0%	1%	1%	1%	0%	N	0.093	N	0.53	1200	N
Wye 180	From: SR 180 Town of Wachapreague (Maint: 01) To: WCL Wachapreague	0.55	**170**	**F**	97%	0%	2%	0%	1%	0%	C	0.135	F	0.5	180	F

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Town of Wachapreague																
1701 01	0.03	**140**	**R**								NA			NA		09/08/2005
From: Dead End																
To: 01-1713																
1701 01	0.12	**120**	**R**								NA			NA		09/08/2005
From: 01-1713																
To: 01-1705																
1701 01	0.11	**530**	**R**								NA			NA		09/13/2005
From: 01-1705																
To: SR 180																
1701 01	0.15	**520**	**R**								NA			NA		09/13/2005
From: SR 180																
To: 01-1715																
1701 01	0.03	**500**	**R**								NA			NA		09/13/2005
From: 01-1715																
To: 01-1709 Custis St																
1701 01	0.10	**410**	**R**								NA			NA		09/13/2005
From: 01-1709 Custis St																
To: 01-1710																
1701 01	0.06	**250**	**R**								NA			NA		09/13/2005
From: 01-1710																
To: 01-1711																
1702 01	0.06	**110**	**R**								NA			NA		09/13/2005
From: 01-1713																
To: 01-1705																
1702 01	0.05	**100**	**R**								NA			NA		09/13/2005
From: 01-1705																
To: 01-1717																
1702 01	0.05	**110**	**R**								NA			NA		09/13/2005
From: 01-1717																
To: SR 180; 01-1706																
1703 01	0.09	**80**	**R**								NA			NA		09/13/2005
From: 01-1713																
To: 01-1705																
1703 01	0.10	**110**	**R**								NA			NA		09/13/2005
From: 01-1705																
To: SR 180																
1704 01	0.10	**90**	**R**								NA			NA		09/13/2005
From: 01-1705																
To: SR 180; SR 180 Y																
1705 01	0.03	**110**	**R**								NA			NA		09/13/2005
From: 01-1719																
To: 01-1716																
1705 01	0.04	**60**	**R**								NA			NA		09/13/2005
From: 01-1716																
To: 01-1702																
1705 01	0.06	**90**	**R**								NA			NA		09/13/2005
From: 01-1702																
To: 01-1703																
1705 01	0.06	**120**	**R**								NA			NA		09/13/2005
From: 01-1703																
To: 01-1704																
1705 01	0.03	**110**	**R**								NA			NA		09/13/2005
From: 01-1704																
To: 01-1701																
1706 01	0.09	**220**	**R**								NA			NA		09/13/2005
From: SR 180; 01-1702																
To: 01-1708																
1706 01	0.06	**190**	**R**								NA			NA		09/13/2005
From: 01-1708																
To: 01-1709 WCL Wachapreague																
1706 01	0.12	**160**	**R**								NA			NA		09/13/2005
From: 01-1709 WCL Wachapreague																
To: 01-1710																
1706 01	0.06	**150**	**R**								NA			NA		09/13/2005
From: 01-1710																
To: 01-1711																
1706 01	0.06	**100**	**R**								NA			NA		09/13/2005
From: 01-1711																
To: SR 180 Y; 01-624																

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 Wachapreague																
1707 01	0.07	**100**	From: 01-1708 To: 01-1709 Custis St								NA			NA		09/13/2005
1707 01	0.10	**70**	From: 01-1709 Custis St To: 01-1710								NA			NA		09/13/2005
1707 01	0.06	**20**	From: 01-1710 To: 01-1711								NA			NA		09/13/2005
1708 01	0.07	**60**	From: 01-1714 To: 01-1718								NA			NA		09/13/2005
1708 01	0.06	**90**	From: 01-1718 To: 01-1706								NA			NA		09/13/2005
1708 01	0.05	**90**	From: 01-1706 To: 01-1707								NA			NA		09/13/2005
1708 01	0.06	**80**	From: 01-1707 To: SR 180 Y								NA			NA		09/13/2005
1709 01 Custis St	0.05	**130**	From: 01-1706 WCL Wachapreague To: 01-1707								NA			NA		09/13/2005
1709 01 Custis St	0.06	**120**	From: 01-1707 To: SR 180 Y; N INT								NA			NA		09/13/2005
1709 01 Custis St	0.05	**90**	From: SR 180 Y; S INT To: 01-1701								NA			NA		09/13/2005
1710 01	0.05	**30**	From: 01-1706 To: 01-1707								NA			NA		09/13/2005
1710 01	0.06	**30**	From: 01-1707 To: SR 180 Y								NA			NA		09/13/2005
1710 01	0.07	**50**	From: SR 180 Y To: 01-1701								NA			NA		09/13/2005
1711 01	0.05	**48**	From: 01-1706 To: 01-1707								NA			NA		09/13/2005
1711 01	0.07	**60**	From: 01-1707 To: SR 180 Y								NA			NA		09/13/2005
1711 01	0.07	**230**	From: SR 180 Y To: 01-1701								NA			NA		09/13/2005
1712 01	0.07	**30**	From: SR 180 Y To: Dead End								NA			NA		09/13/2005
1713 01	0.07	**60**	From: 01-1719 To: 01-1702								NA			NA		09/13/2005
1713 01	0.06	**90**	From: 01-1702 To: 01-1703								NA			NA		09/13/2005
1713 01	0.09	**90**	From: 01-1703 To: 01-1701								NA			NA		09/13/2005
1714 01	0.09	**100**	From: SR 180; WCL Wachapreague To: 01-1708								NA			NA		09/13/2005
1715 01	0.05	**100**	From: SR 180 Y To: 01-1701								NA			NA		09/13/2005

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Town of Wachapreague																
1716 01	0.05	**70**	From: 01-1705 To: 01-1717								NA			NA		09/13/2005
1716 01	0.05	**80**	From: 01-1717 To: SR 180								NA			NA		09/13/2005
1717 01	0.05	**10**	From: 01-1716 To: 01-1702								NA			NA		09/13/2005
1718 01	0.06	**30**	From: 01-1708 To: 01-1709 Custis St								NA			NA		09/13/2005
1719 01	0.05	**30**	From: 01-1713 To: 01-1705								NA			NA		08/16/2005