

2011
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

310

Town of Tappahannock

Information in this report is included in Report

28

(Essex 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

Wve - Wve 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 Maintenance 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
 2011
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Town of Tappahannock

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: SCL Tappahannock															
17 360	Town of Tappahannock (Maint: 28)	2.24	22000	N	90%	1%	1%	1%	7%	0%	N	0.08	N	20000	N	
	To: US 360 Tappahannock															
17	Town of Tappahannock (Maint: 28)	0.62	7400	A	90%	1%	1%	1%	7%	0%	C	0.133	A	6500	A	
	To: NCL Tappahannock															
	From: CL Tappahannock															
360 17	Town of Tappahannock (Maint: 28)	2.24	22000	N	90%	1%	1%	1%	7%	0%	N	0.08	N	20000	N	
	To: E US 17															
360 Queen St	Town of Tappahannock (Maint: 28)	0.25	12000	F	95%	0%	1%	1%	3%	0%	F	0.079	F	13000	F	
	To: Richmond County Line															

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						2Axle	3+Axle	1Trail	2Trail							
Town of Tappahannock																
(617) 28	Richmond Beach Rd	0.19	750	F	99%	0%	0%	0%	0%	C	0.102	F		770	F	2011
(627) 28	Airport Rd	1.62	3900	F	94%	3%	1%	1%	2%	C	0.108	F		4000	F	2011
(657) 28	Marsh St	0.28	320	R							NA			NA		10/05/2011
(657) 28	Marsh St	0.24	2000	R							NA			NA		10/05/2011
(657) 28	Marsh St	0.36	2100	F	94%	5%	1%	0%	0%	C	0.173	F		2200	F	2011
(657) 28	Marsh St	0.14	180	R							NA			NA		10/04/2011
(657) 28	Marsh St	0.08	30	R							NA			NA		10/04/2011
(659) 28	Desha Rd	0.53	690	F	97%	1%	2%	0%	0%	C	0.107	F		710	F	2011
(698) 28	White Oak Rd	0.35	2200	R							NA			NA		09/20/2011
(698) 28	Hobbs Hole Dr	0.59	2700	R							NA			NA		09/20/2011
(700) 28	Commerce Rd	0.07	150	R							NA			NA		06/11/2008
(705) 28	Essex Gardens	0.12	70	R							NA			NA		10/05/2011
(706) 28	Industrial Rd	0.30	450	R							NA			NA		06/11/2008
(723) 28	Mill Rd	0.40	110	R							NA			NA		06/11/2008
(725) 28	Winston Rd	0.29	1500	R							NA			NA		06/11/2008
(729) 28		0.03	830	R							NA			NA		09/20/2011
(1001) 28	Cross St	0.05	230	R							NA			NA		07/07/2008
(1001) 28	Cross St	0.11	670	R							NA			NA		07/07/2008
(1001) 28	Cross St	0.06	240	R							NA			NA		07/07/2008
(1001) 28	Cross St	0.02	280	R							NA			NA		07/07/2008
(1002) 28	Dock St	0.10	400	R							NA			NA		07/07/2008

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						2Axle	3+Axle	1Trail	2Trail							
Town of Tappahannock																
(1003/28) Essex St	0.20	1500	R			From: US 17; 28-1023					NA			NA		06/30/2008
(1003/28) Essex St	0.09	950	R			To: 28-1010 Daingerfield St					NA			NA		06/30/2008
(1003/28) Duke St	0.19	570	R			From: 28-1020 Cralle St					NA			NA		06/30/2008
(1003/28) Duke St	0.14	480	R			To: US 17 NORTH					NA			NA		07/07/2008
(1003/28) Duke St	0.06	140	R			From: 28-1004 Water Lane					NA			NA		07/07/2008
						To: Dead End										
(1004/28) Water Lane	0.03	60	R			From: Dead End					NA			NA		07/07/2008
(1004/28) Water Lane	0.12	270	R			To: 28-1011 Jeanette Dr					NA			NA		07/07/2008
(1004/28) Water Lane	0.34	2300	R			From: 28-1008 Wright St					NA			NA		07/07/2008
(1004/28) Water Lane	0.06	250	R			To: US 360 Queen St					NA			NA		07/07/2008
(1004/28) Water Lane	0.13	60	R			From: 28-657 Marsh St					NA			NA		07/07/2008
						To: Dead End										
(1005/28) Faulconer Circle Court	0.04	40	R			From: Dead End					NA			NA		06/30/2008
(1005/28) Prince St	0.16	810	R			To: 28-1006 Waller Pl & Virginia St; Falconer Circle					NA			NA		06/30/2008
(1005/28) Prince St	0.14	1000	R			From: US 17					NA			NA		07/09/2008
(1005/28) Prince St	0.10	860	R			To: 28-1004 Water Lane					NA			NA		07/09/2008
(1005/28) Prince St	0.02	360	R			From: 28-1013 Newbill Dr					NA			NA		07/07/2008
						To: Dead End										
(1006/28) Falconer Circle	0.23	120	R			From: End Loop					NA			NA		06/30/2008
(1006/28) Waller Pl & Virginia St	0.24	430	R			To: 28-1005 Prince St					NA			NA		06/30/2008
(1006/28) Virginia St	0.14	300	R			From: US 17					NA			NA		07/07/2008
						To: 28-1004 Water Lane										
(1007/28) Earl St	0.14	160	R			From: 28-1003 Essex St					NA			NA		10/04/2011
(1007/28) Earl St	0.17	330	R			To: US 17					NA			NA		10/04/2011
						To: 28-1004 Water Lane										
(1008/28) Wright St	0.07	2900	R			From: US 17					NA			NA		10/04/2011
(1008/28) Wright St	0.13	1900	R			To: 28-1022 Charlotte St					NA			NA		10/04/2011
						To: 28-1004 Water Lane										
(1009/28) Ware Ave	0.14	390	R			From: 28-1010 Daingerfield St					NA			NA		10/05/2011
						To: 28-1027 Tanyard Dr										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Tappahannock																
(1010) 28 Daingerfield St	0.17	400	R			From: Dead End					NA		NA			10/05/2011
(1010) 28 Daingerfield St	0.03	690	R			To: 28-1009 Ware Ave					NA		NA			10/05/2011
(1010) 28 Daingerfield St	0.10	570	R			To: 28-1020 Cralle St; 28-1025					NA		NA			10/05/2011
(1010) 28 Daingerfield St	0.23	670	R			To: 28-1016 Pegtram Lane					NA		NA			10/05/2011
(1011) 28 Jeanette Dr	0.07	210	R			To: US 17					NA		NA			10/04/2011
(1011) 28 Jeanette Dr	0.23	90	R			To: 28-1012 Tom Williams Dr					NA		NA			10/04/2011
(1012) 28 Tom Williams Dr	0.08	90	R			To: 28-1004 Water Lane					NA		NA			10/04/2011
(1013) 28 Newbill Dr	0.14	90	R			To: 28-1011 Jeanette Dr					NA		NA			10/04/2011
(1014) 28 Queen St	0.07	460	R			To: 28-1021 Della St					NA		NA			10/04/2011
(1015) 28 Lewis St	0.28	200	R			To: 28-1005 Prince St					NA		NA			10/04/2011
(1016) 28 Pegtram Lane	0.23	90	R			To: US 360 Queen St					NA		NA			10/04/2011
(1017) 28 Deshields St	0.03	30	R			To: Dead End					NA		NA			06/30/2008
(1017) 28 Deshields St	0.19	220	R			To: US 17					NA		NA			06/30/2008
(1018) 28 Parker Place	0.11	220	R			To: 28-1010 Daingerfield St					NA		NA			06/30/2008
(1019) 28 Moore St	0.04	60	R			To: 28-1003 Essex St					NA		NA			06/30/2008
(1019) 28 Moore St	0.10	280	R			To: Dead End					NA		NA			06/30/2008
(1020) 28 Cralle St	0.26	460	R			To: 28-657 Marsh St					NA		NA			06/30/2008
(1021) 28 Della St	0.17	150	R			To: 0.10 MS 28-657					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.07	680	R			To: 28-1010 Daingerfield St					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.10	460	R			To: 28-1003 Duke St; Essex St					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.07	680	R			To: 28-1011 Jeanette Dr					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.10	460	R			To: 28-1007 Earl St					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.07	680	R			To: 28-1012 Tom Williams Dr					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.10	460	R			To: 28-1008 Wright St					NA		NA			10/04/2011
(1022) 28 Charlotte St	0.10	460	R			To: 28-1007 Earl St					NA		NA			10/04/2011

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						2Axle	3+Axle	1Trail	2Trail							
Town of Tappahannock																
1023 28 Warner St	0.08	80	R			From: Dead End					NA		NA			06/30/2008
						To: US 17; 28-1003 Essex St										
1024 28 (Cemetery Entrance)	0.06	30	R			From: Dead End					NA		NA			06/30/2008
						To: US 17										
1025 28 Hoskins Creek Dr	0.04	3	R			From: Dead End					NA		NA			06/30/2008
						To: 28-1010 Daingerfield St										
1026 28 Derby Lane	0.13	260	R			From: 28-1010 Daingerfield St					NA		NA			10/05/2011
						To: 28-1027 Tanyard Dr										
1027 28 Tanyard Dr	0.14	210	R			From: Dead End					NA		NA			10/05/2011
						To: 28-1009 Ware Ave										
1028 28 Clanton Dr	0.11	100	R			From: Dead End					NA		NA			10/05/2011
						To: 28-1026 Derby Lane										
1029 28 Rouzie Dr	0.19	190	R			From: 28-657 S. Marsh St					NA		NA			06/30/2008
						To: 28-657 N. Marsh St										
1030 28 Granary Rd	0.11	1300	R			From: 28-617 Richmond Beach Rd					NA		NA			09/20/2011
						To: Dead End										
1031 28 Sycamore St	0.11	870	R			From: US 17					NA		NA			10/04/2011
						To: 28-1032 Elm St										
1031 28 Sycamore St	0.41	490	R			From: 28-1031 Sycamore St					NA		NA			10/04/2011
						To: Dead End										
1032 28 Elm St	0.18	180	R			From: 28-1031 Sycamore St					NA		NA			10/04/2011
						To: US 17										
1036 28 Ball St	0.11	2600	R			From: US 17					NA		NA			06/11/2008
						To: 28-698										
1037 28 Old Creek Lake Dr	0.11	670	R			From: 28-725 Winston Rd					NA		NA			06/11/2008
						To: 28-1038 Dillard St										
1037 28 Old Creek Lake Dr	0.14	140	R			From: 28-1038 Dillard St					NA		NA			06/11/2008
						To: Begin Loop										
1037 28 Old Creek Lake Dr	0.06	49	R			From: 28-1039 Cooke St					NA		NA			06/11/2008
						To: 28-1037 Old Creek Lake Dr										
1037 28 Old Creek Lake Dr	0.13	70	R			From: 28-1037 Old Creek Lake Dr					NA		NA			06/11/2008
						To: End Loop										
1038 28 Dillard St	0.07	70	R			From: 28-1037 Old Creek Lake Dr					NA		NA			06/11/2008
						To: Cul-de-Sac										
1039 28 Cooke St	0.05	20	R			From: 28-1037 Old Creek Lake Dr					NA		NA			06/11/2008
						To: Cul-de-Sac										
1042 28 Heron Point Rd	0.27	80	R			From: Cul-de-Sac					NA		NA			06/30/2008
						To: 28-1031 Sycamore St										
1043 28 Point Court	0.04	20	R			From: Cul-de-Sac					NA		NA			06/30/2008
						To: 28-1042 Heron Point Rd										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Tappahannock																
1045 28 R Hoskins Dr	0.19	280	R			From: 28-1031 S. Sycamore St					NA		NA			06/30/2008
1045 28 R Hoskins Dr	0.18	100	R			From: 28-1046 Ridgecrest Court					NA		NA			06/30/2008
						To: 28-1031 N. Sycamore St										
1046 28 R Ridgecrest Court	0.06	90	R			From: 28-1045 Hoskins Dr					NA		NA			06/30/2008
						To: Cul-de-Sac										
1050 28 R King St	0.10	600	R			From: 28-627 Airport Rd					NA		NA			10/05/2011
						To: Cul-de-Sac										
1051 28 R Davis St	0.21	560	R			From: 28-627 Airport Rd					NA		NA			10/05/2011
						To: Cul-de-Sac										
1052 28 R Hobbs Hole Dr	0.04	100	R			From: Cul-de-Sac					NA		NA			10/05/2011
						To: 28-1051 Davis St										
1075 28 R Hobbs Hole Dr	0.07	520	N			From: SCL Tappahannock					NA		NA			06/30/2008
						To: 28-698 Hobbs Hole Dr										
9123 28 R Essex Int School	0.27	60	R			From: 28-657 Marsh St					NA		NA			06/30/2008
						To: Essex Int School										
9125 28 R Elementary School St	0.29	50	R			From: US 17					NA		NA			06/30/2008
						To: US 17; 28-1018										
9126 28 R Elementary School St	0.04	190	R			From: 28-9125 Elementary School St					NA		NA			07/07/2008
						To: 28-1001 Cross St										