2009

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

where available

Special Locality Report 182

Town of Cape Charles

Information in this report is included in Report

65

(Northampton 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.

Virginia Department of Transportation Traffic Engineering Division

2009 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Cape Charles

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus		Tru			QC	K	QK	Dir	AAWDT	QW
		o o					2Axle	3+Axle	1Trail	2Trail		Factor		Factor		
	From:	65-1101 Pine St	t; 65-1106 V	Washingt	on Ave											
184 Bay Ave; Mason Ave	Town of Cape Charles (Maint: 65)	1.21	1900	G	97%	1%	1%	0%	0%	0%	F	0.113	F	0.516	2100	G
	To: From:	65-1105 Fig S	t; 65-1112	Randolpl	ı Ave											
184) Stone Rd	Town of Cape Charles (Maint: 65)	0.21	1900	N	97%	1%	1%	0%	0%	0%	Ν	0.113	Ν	0.516	2100	N
	To	He	ritage Acres	: Ct												
(184) Stone Rd	Town of Cape Charles (Maint: 65)	0.06	3900	G	97%	1%	1%	0%	0%	0%	С	0.092	F	0.555	4200	G
\smile	To:	EC	L Cape Cha	rles												

6/12/2010 7

							Cape On	u								
Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Cape Charles									ZIIGII		1 40101		1 40101			
642) Old Cape Charles Rd	0.08	970	G	95%	0%	ECL 1%	Cape Charle 3%	1%	0%	F	0.115	N	0.676	970	G	2009
Old Cape Charles Rd	0.00	Т	2.	0070			y Ave; Mas		0,0	•	¬	.,	0.0.0			
Nectarine St	0.06	160 From	R		5	IX 104 Da	y zive, ivias	on rive			NA			NA		02/05/2004
65		Ti	n:			65-1112	2 Randolph	Ave								
Nectarine St	0.06	170	R				•				NA			NA		02/05/2004
		From	n.			65-111	1 Tazewell A	Ave			\Box					
642 Nectarine St	0.08	130	R								NA			NA		02/05/2004
<u> </u>		Fron	n:			65-111	0 Monroe A	ve								
(642) Nectarine St	0.07	100	R								NA —			NA		02/05/2004
(642) Nectarine St	0.05	100 From	R			65-110-	4 Madison A	Ave			NA			NA		02/05/2004
(642) Nectarine St	0.03	100				55 110	2 7 66							INA		02/03/200-
(642) Nectarine St	0.07	60 From	R			65-1103	3 Jefferson A	Ave			NA			NA		02/05/2004
(642) Nectarine St		Т				65-1106	Washington	Ave								
		Fron	n:		SI	R 184 S, B	ay Ave;Ma	son Ave								
(1101) Pine St	0.06	610	R								NA			NA		02/04/2004
		Fron	n:			65-1112	Randolph A	Ave								
(1101) Pine St	0.06	400	R								NA 			NA		02/04/2004
	0.06	From				65-1111	l Tazewell A	Ave						NΙΔ		02/04/2004
(1101) Pine St	0.06	160	R								NA			NA		02/04/2004
O	0.07	70 From	R			65-111	0 Monroe A	ve			NA			NA		02/04/2004
(1101) Pine St	0.07	. · · · · · · · · · · · · · · · · · · ·				65 110	1 Madiaan /	1710						147.		02/04/2004
(1101) Pine St	0.06	120 From	R			05-1104	4 Madison A	Ave			NA			NA		02/04/2004
(1101) Pine St		т				65-110	3 Jefferson A	Ave								
(1101) Pine St	0.06	140 From	R			00 110	, , , , , , , , , , , , , , , , , , , 	1,0			NA			NA		02/04/2004
65		Т	D:			SR 18	34 N; 65-110)6								
O 0: 1 0:	0.05	From			S	R 184 Ba	y Ave; Mase	on Ave								00/04/000
Strawberry St Strawberry St	0.05	990	R								NA —			NA		02/04/2004
(1102) Strawberry St	0.06	810 From	R			65-1112	2 Randolph	Ave			NA			NA		02/04/2004
(1102) Strawberry St	0.00	010				c# 1111								INA		02/04/2004
(1102) Strawberry St	0.06	300 From	R			65-111	l Tazewell A	Ave			NA			NA		02/04/2004
Strawberry St		т	2			65-111	0 Monroe A	Ve								
Strawberry St Strawberry St	0.03	380 From	R			05 111	o iviolitoc i				NA			NA		02/04/2004
65		From				65-11	15 Park Ro	W								
Strawberry St	0.03	410	R								NA			NA		02/04/2004
-		From	n:			65-110-	4 Madison A	Ave								
1102 Strawberry St	0.06	100	R								NA			NA		02/04/2004
		From	n:			65-1103	3 Jefferson A	Ave			\Box \Box					
1102 Strawberry St	0.06	110	R			65 1106	Washington	Avo			NA			NA		02/04/2004
		Fron					y Ave;Maso									
1103 Jefferson Ave	0.05	120	R			,10+ Dä	,, 21v0,1v1a80	11 1 1 V C			NA			NA		02/03/2004
65/		T T				65-11	07 Harbor S	St								
1103 Jefferson Ave	0.02	100 From	R								NA			NA		02/03/2004
00)		T. From	n.			65-1	101 Pine St									
Jefferson Ave	0.13	90	R								NA			NA		02/03/2004
		To From	n:			65-1102	2 Strawberry	St								
1 ₁₀₃ Jefferson Ave	0.05	160	R			~~ ~	100 P 1 ~				NA			NA		02/03/2004
		11				65-1	109 Peach S	τ								

						10	JWII OI	Cape	Chanes	,							
Route	Length	AADT	QA	4Tire	Вι	ıs -			Truck xle 1Tra		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Cape Charles		Fron	1:									. 0.010.		. 4010.			
Jefferson Ave	0.06	190	R				03-11	109 Pea	CII St			NA			NA		02/03/2004
		To From): 				65-1	113 Plu	m St			\supset					
Jefferson Ave	0.12	160	R									NA —			NA		02/03/2004
(1103) Jefferson Ave	0.12	240 From	R				65-642	2 Necta	rine St			NA			NA		02/03/2004
Jefferson Ave		Т	o:			_	65-1	1105 Fi	g St								
<u> </u>		From				SR	184 Ba	y Ave;l	Mason Ave	9							
Madison Ave	0.05	100	R					05.11				NA			NA		02/03/2004
(1104) Madison Ave	0.04	100 From	R				65-11	07 Har	bor St			NA			NA		02/03/2004
(1104) Madison Ave		Ti	·				65-1	101 Pir	ne St			_					
1104 Madison Ave	0.13	150	R									NA			NA		02/03/2004
$\widehat{}$	0.00	From					65-1102	2 Straw	berry St			\supset			NIA.		00/00/000
(1104) Madison Ave	0.06	260	R									NA			NA		02/03/2004
(1104) Madison Ave	0.07	160	R				65-11	109 Pea	ch St			NA			NA		02/03/2004
Madison Ave	0.07	т					65-1	113 Plu	ım St			¬ <u>``</u>					02/00/200
(1104) Madison Ave	0.12	210 From	R				05 11	113110	iii St			NA			NA		02/03/2004
65)		Fron	1:				65-642	2 Necta	rine St			_					
1104 Madison Ave	0.12	610	R				<i>(5.1</i>	1105 E:	- 04			NA			NA		02/03/2004
		Fron	1:					1105 Fi 84; 65-									
(1105) Fig St	0.10	1500	R				SK I	04, 05-	1112			NA			NA		02/04/2004
		To From): 1:				65-1110	0 Monr	oe Ave								
1105 Fig St	0.11	850	R									NA			NA		02/04/2004
	0.00	From					65-1103	3 Jeffer	son Ave						NIA		00/04/000
(1105) Fig St	0.38	840	R			—	D	Dead En	ıd			NA			NA		02/04/2004
		From	1:					84; 65-									
(1106) Washington Ave	0.13	380	R									NA			NA		02/04/2004
	2.22	From	-				65-1102	2 Straw	berry St			\rightrightarrows					00/04/000
(1106) Washington Ave	0.06	340	R									NA			NA		02/04/2004
(1106) Washington Ave	0.06	360 From	R				65-11	109 Pea	ich St			NA			NA		02/04/2004
(1106) Washington Ave		Т.	-				65-1	113 Plu	m St								
(1106) Washington Ave	0.12	330	R									NA			NA		02/04/2004
		From	1:				65-642	2 Necta	rine St								
(1106) Washington Ave	0.12	350	R				65-1	1105 Fi	a St			NA			NA		02/04/2004
		Fron	1:			SR			Mason Ave	e							
(1107) Harbor Ave	0.06	160	R				10.24)	<i>j</i> 11,0,				NA			NA		02/04/2004
		From	n:				65-1112	Rando	lph Ave			\supset					
(1107) Harbor Ave	0.06	220	R								 	NA —			NA		02/04/2004
<u> </u>	0.06	200 From	R				65-1111	Tazev	vell Ave		 	NA			NA		02/04/2004
(1107) Harbor Ave	0.00	т					65-1110	0 Mon-	ое Але						11/7		02/0 4 /2002
(1107) Harbor Ave	0.07	160 From	R				05-1110	O INTOIL	ol Ave			NA			NA		02/04/2004
65		Fron	1:				65-1104	4 Madis	son Ave								
1107 Harbor Ave	0.06	60	R									NA			NA		02/04/2004
		Т	"				65-1103	Jeffer:	son Ave								

Route	l enath	AADT	QA	4Tire	Bus			Truck		()	C _	K	QK	Dir	AAWDT	O\/\	Year
Town of Cape Charles	Longui		4 7	71110	Dus	2A	xle 3+	Axle 1Tra	ail 2Tr	ail	` F 	actor	بر ا (Factor	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	٠, ٧٧ 	ı caı
	0.22	From	<u> </u>				Dead F	ind				NIA.			NIA		02/02/200
(1108) Marina Dr	0.23	430	R									NA T			NA		02/03/2004
(1108) Marina Dr	0.32	1300	R				65-11	16				NA			NA		02/03/2004
Marina Dr		Tr				65-642	Old Cape	Charles Rd									
		From	1:			SR 184	Bay Ave	;Mason Ave)								
(1109) Peach St	0.05	310	R									NA			NA		02/03/2004
(1109) Peach St	0.05	110	R			65-1	112 Rand	olph Ave				NA			NA		02/03/2004
(1109) Peach St		To From	_			65-1	111 Taze	well Ave				_					
1109 Peach St	0.03	130	R									NA			NA		02/03/2004
		From	1:				Dead End 4 Madiso	; Gap n Ave; Gap									
Peach St	0.06	110	R					,				NA			NA		02/03/2004
		From				65-1	103 Jeffe	rson Ave									
1109 Peach St	0.06	100 To	R			65.11	06.117. 1					NA			NA		02/03/2004
								ngton Ave				1					
(1110) Monroe Ave	0.06	190	"LR			SR 184	Bay Ave	;Mason Ave	<u> </u>			NA			NA		02/03/2004
Monroe Ave		To	1			65	1107 Har	hor Ave									
Monroe Ave	0.03	210 From	R			05-	1107 1141	boi Ave				NA			NA		02/03/2004
65		Тъ	2			6	5-1101 P	ine St				1					
Monroe Ave	0.11	100 From	R									NA			NA		02/03/2004
65)		To):					erry St; Gap									
(1110) Monroe Ave	0.11	120	"LR			65-1	113 Plun	ı St; Gap				NA			NA		02/03/2004
(1110) Monroe Ave	0.11	120					542.XX					7			INA		02/03/2009
(1110) Monroe Ave	0.11	230 From	R			65-	-642 Nec	arine St				NA			NA		02/03/2004
Monroe Ave		Т					65-1105 I	io St				—					
Monroe Ave	0.09	130 From	R				33 1103 1	15 51				NA			NA		02/03/2004
65		To):			65	-1114 Fu	lcher St									
O -		Fron				SR 184	Bay Ave	;Mason Ave)			J					
Tazewell Ave	0.07	140	R									NA			NA		02/03/2004
		Fron				65	5-1107 Ha	rbor St]					00/00/000
Tazewell Ave	0.05	160	R									NA			NA		02/03/2004
Torough Ave	0.17	Fron	<u>.</u>			6	5-1101 P	ine St				NIA.			NIA		02/02/200/
(1111) Tazewell Ave	0.17	210	R									NA			NA		02/03/2004
(1111) Tazewell Ave	0.07	400 From	R			6.	5-1109 Pe	each St				NA			NA		02/03/2004
(1111) Tazewell Ave	0.07	400					5 1112 D	G.				7			INA		02/03/200-
(1111) Tazewell Ave	0.12	320 From	R			6	5-1113 P	um St				NA			NA		02/03/2004
Tazewell Ave		*				25	-642 Nec	arina Ct				<u> </u>					
(1111) Tazewell Ave	0.12	310 From	R			03-	-042 INCC	aime st				NA			NA		02/03/2004
Tazewell Ave		Т					65-1105 I	io St				٦					
Tazewell Ave	0.10	280 From	R				00 1100 1	25.51				NA			NA		02/03/2004
65		To):			65	-1114 Fu	lcher St									
\sim		Fron				SR 184	Bay Ave	Mason Ave	e								
Randolph Ave	0.08	280	R									NA			NA		02/03/2004
<u> </u>		Fron				65-	1107 Har	bor Ave]					00/5-1
(1112) Randolph Ave	0.06	330	R									NA			NA		02/03/2004
<u> </u>		From	,			6	5-1101 P	ine St									00/00/202
(1112) Randolph Ave	0.11	790	R									NA			NA		02/03/2004

Route	Length	AADT	QA	4Tire	Bus	2Axle		Truck xle 1Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Cape Charles			_					,				. 4010.			
\bigcirc		From				65-110	2 Straw	berry St							
(1112) Randolph Ave	0.06	1000	R							NA			NA		02/03/2004
<u> </u>		To From				65-1	109 Pea	ch St		\Box					
Randolph Ave	0.07	1100	R							NA			NA		02/03/200
$\overline{}$		To From				65-1	1113 Plu	m St							
Randolph Ave	0.12	1200	R							NA			NA		02/03/200
$\overline{}$		To From				65-64	12 Necta	rine St							
Randolph Ave	0.12	1500	R							NA			NA		02/03/200
		10					184; 65-								
Olum Ct	0.05	From	Ļ_			SR 184 B	ay Ave;l	Mason Ave					NIA		00/04/000
Plum St	0.05	310	R							NA —			NA		02/04/200
Dlum Ct	0.05	From	<u> </u>			65-111	2 Rando	lph Ave					NIA		02/04/200
1113 Plum St	0.05	350	R							NA			NA		02/04/200
	2.22	From				65-111	1 Tazev	vell Ave		<u> </u>					00/04/000
Plum St	0.06	310	R							NA			NA		02/04/200
$\overline{}$		To From				65-111	10 Moni	oe Ave							
1113 Plum St	0.07	380	R							NA			NA		02/04/200
		To From				65-110)4 Madis	son Ave							
1113 Plum St	0.06	300	R							NA			NA		02/04/200
		From				65-110	3 Jeffer	son Ave		\Box —					
1113 Plum St	0.05	270	R							NA NA			NA		02/04/200
<u> </u>		To						gton Ave							
C Fulcher 01	0.00	From	<u> </u>			SR	184 Stor	ne Rd		_			NIA		00/04/000
Fulcher St	0.08	310	R							NA 			NA		02/04/200
O = 11		From				65-111	1 Tazev	vell Ave		<u> </u>					00/01/000
Fulcher St	0.07	170	R			65 111	10 Mone	Aria		NA			NA		02/04/200
		From	l				10 Moni								
1115 Park Row	0.06	40	R			65-110	2 Straw	berry St		NA			NA		02/04/200
Park Row	0.00	To]	Dead Er	ıd					INA		02/04/200
		From					Dead Er			1					
(1116)	0.08	850	R				Dead El			NA			NA		02/03/200
(1116) 65		To				65-11	108 Mar	ina Dr							
		From]	Dead Er	ıd							
1117	0.33	NA								NA			NA		
65		To				65-11	108 Mar	ina Dr							