

2001

Virginia Department of Transportation
Daily Traffic Volumes
Including Vehicle Classification Estimates
where available

Jurisdiction Report

18

Charles City County

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 includes a list of all Interstate and Primary highway segments with the estimated Annual Average Daily Traffic (AADT). AADT is the total annual traffic estimate divided by the number of days in the year. This book is titled “Average Daily Traffic Volumes on Interstate, Arterial and Primary Routes”.

The second booklet includes the same information as the first, along with some additional information such as an estimate of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks. This booklet also includes the 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; and a “Design Hour” estimate which is a value used by planners to formulate design criteria. This book is titled “Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes”.

Both of the Interstate and Primary booklets mentioned above include 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 booklet has been redesigned based on user requests and feedback. The people at VDOT Traffic Engineering’s Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

In addition to the two annual publications, 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 all 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”.

Available this year is a compact disc (CD) that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. One disc will include both Primary and Interstate publications as well as each of the 100 Jurisdiction Reports. The CD will also include a number of summary reports not available in the printed version.

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’s Traffic Engineering 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

Design Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period.

QK: Quality of the Design Hour estimate:

- A 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B 30th Highest Hour Observed During Less than 12 Months of Continuous Traffic Data
- F Factored Highest Hour Collected at in a 48 Hour Weekday Period
- G Factored Highest Hour Collected at in a 48 Hour Weekday Period with Growth Element
- M Manual Estimate of 30th Highest Hour
- N Design Hour of Similar Neighboring Traffic Link
- O Provided by External Source

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday.

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, the actual date that the count was obtained is provided. All other AADT data are factored to be accurate for the year of the report.

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



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 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
2001
Annual Average Daily Traffic Volume Estimates By Section of Route
Charles City Maintenance Area

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Design Hour	QK	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
(5)	4.34	1400	G	87%	1%	2%	7%	3%	0%	C	150	G	1400	G	2001
				From: Henrico County Line											
				To: SR 156 E Int											
(5)	3.69	3100	G	89%	1%	3%	2%	5%	0%	F	260	G	3200	G	2001
				From: 18-609											
(5)	5.68	2700	F	89%	1%	3%	2%	5%	0%	C	260	F	2700	F	2001
				From: SR 155 Charles City CH											
(5)	3.81	2100	G	86%	1%	2%	4%	6%	1%	C	200	G	2200	G	2001
				From: 18-632											
(5) John Tyler Memorial	9.47	2100	G	86%	1%	2%	4%	6%	1%	F	200	G	2100	G	2001
				To: James City County Line, Chickahominy Bridge											
(106) (156)	1.31	3700	G	83%	1%	3%	2%	12%	0%	F	340	G	3700	G	2001
				From: Prince George County Line											
(106) Roxbury Rd	6.67	1600	G	80%	0%	2%	3%	15%	0%	F	140	G	1600	G	2001
				From: SR 5; SR 156 Tyler Memorial Hwy											
(106) Roxbury Rd	3.13	4200	G	80%	1%	3%	10%	7%	0%	C	370	G	4200	G	2001
				From: 18-656 Bradley Rd											
				To: New Kent County Line											
New Kent County															
(106) Roxbury Rd	0.43	4200	N	80%	1%	3%	10%	7%	0%	N	370	N	4200	N	2001
				From: Charles City County Line											
				To: New Kent County Line											
Charles City County															
(155)	3.67	2000	G	90%	1%	5%	1%	4%	0%	F	190	G	2000	G	2001
				From: SR 5 Charles City CH											
(155)	2.75	2100	G	90%	1%	5%	1%	4%	0%	F	170	G	2100	G	2001
				From: 18-612											
				To: New Kent County Line											
(156)	1.31	3700	G	83%	1%	3%	2%	12%	0%	F	340	G	3700	G	2001
				From: Prince George County Line											
(156) (5)	4.34	1400	G	87%	1%	2%	7%	3%	0%	C	150	G	1400	G	2001
				From: E SR 5											
				To: Henrico County Line											
(600)	0.40	1300	R								NA		NA		1999
				From: Henrico County Line											
(600)	2.28	310	R								NA		NA		1999
				From: 18-603											
(600)	0.96	300	R								NA		NA		1999
				From: 18-622											
				To: SR 106											
(601)	0.40	70	R								NA		NA		02/27/2002
				From: Dead End											
				To: 18-615											
(602)	1.03	1200	G	90%	1%	2%	4%	2%	0%	F	NA		1200	G	2001
				From: SR 155											
(602)	1.65	1200	G	90%	1%	2%	4%	2%	0%	F	NA		1200	G	2001
				From: 1.03 MW SR 155											
(602)	2.18	1400	G	90%	1%	2%	4%	2%	0%	F	NA		1400	G	2001
				From: 18-618											
(602)	0.83	1800	G	90%	1%	2%	4%	2%	0%	C	NA		1800	G	2001
				From: 18-630											
				To: 18-609											

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Charles City Maintenance Area

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Design Hour	QK	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
(603)	1.96	480	R			From: 18-609					NA		NA		1999
(603)	2.14	1000	R			From: SR 106					NA		NA		1999
(604)	2.60	240	R			From: SR 106					NA		NA		1999
(606)	0.30	50	R			From: SR 5					NA		NA		1999
(607)	0.87	870	G	96%	1%	1%	2%	0%	0%	F	NA		880	G	2001
(607)	0.27	1400	G	96%	1%	1%	2%	0%	0%	F	NA		1400	G	2001
(607)	0.57	990	G	96%	1%	1%	2%	0%	0%	C	NA		1000	G	2001
(607)	1.07	770	G	96%	1%	1%	2%	0%	0%	F	NA		770	G	2001
(607)	1.18	660	G	96%	1%	1%	2%	0%	0%	F	NA		660	G	2001
(607)	2.34	550	G	96%	1%	1%	2%	0%	0%	F	NA		560	G	2001
(607)	0.85	550	G	96%	1%	1%	2%	0%	0%	F	NA		550	G	2001
(608)	1.59	180	R			From: Dead End					NA		NA		1999
(609)	0.46	570	G	93%	2%	2%	1%	2%	0%	F	NA		580	G	2001
(609)	1.06	510	G	93%	2%	2%	1%	2%	0%	F	NA		510	G	2001
(609)	0.70	540	G	93%	1%	2%	1%	2%	0%	F	NA		540	G	2001
(609)	0.69	670	G	93%	1%	2%	1%	2%	0%	F	NA		670	G	2001
(609)	3.51	690	R			From: 18-607 NORTH					NA		NA		02/27/2002
(609)	1.14	1800	G	93%	2%	2%	1%	2%	0%	C	NA		1800	G	2001
(609)	0.89	1400	G	93%	2%	2%	1%	2%	0%	F	NA		1400	G	2001
(609)	0.05	1700	G	93%	2%	2%	1%	2%	0%	F	NA		1700	G	2001
(609)	1.70	1900	G	93%	2%	2%	1%	2%	0%	F	NA		1900	G	2001
(610)	1.82	380	R			From: Dead End					NA		NA		1999
						To: SR 155									

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Design Hour	QK	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
611	0.25	70	R			From: 18-630 To: Dead End					NA		NA		02/27/2002
612	0.80	120	R			From: Dead End To: 18-615					NA		NA		02/27/2002
612	0.97	240	R			From: 18-615 To: 18-646					NA		NA		1999
612	1.00	660	R			From: 18-646 To: SR 155					NA		NA		1999
613	1.30	100	R			From: Dead End To: 1.30 MN Dead End					NA		NA		02/27/2002
613	2.11	230	R			From: 1.30 MN Dead End To: 18-623					NA		NA		02/27/2002
613	3.50	330	R			From: 18-623 To: SR 5					NA		NA		1999
614	1.33	80	R			From: Dead End To: SR 5					NA		NA		02/27/2002
614	3.60	420	R			From: SR 5 To: 18-615					NA		NA		1999
614	3.93	790	G	92%	1%	3%	2%	2%	0%	C	NA		790	G	2001
614	0.18	60	R			From: SR 155 To: Dead End					NA		NA		1999
615	2.20	740	R			From: SR 5 To: 18-612					NA		NA		1999
615	0.90	730	R			From: 18-612 To: 18-626					NA		NA		1999
615	1.50	480	R			From: 18-626 To: 18-614					NA		NA		1999
615	5.37	680	R			From: 18-614 To: 18-623					NA		NA		1999
616	0.30	20	R			From: SR 5 To: Dead End					NA		NA		02/27/2002
617	2.10	130	R			From: SR 106 To: Dead End					NA		NA		1999
618	1.18	100	R			From: Dead End To: SR 5 EAST					NA		NA		1999
618	3.40	220	R			From: SR 5 WEST To: 18-607					NA		NA		1999
618	0.49	1100	G	94%	1%	3%	2%	1%	0%	F	NA		1100	G	2001
618	1.41	1500	G	94%	1%	3%	2%	1%	0%	C	NA		1500	G	2001
618	0.74	980	G	94%	1%	3%	2%	1%	0%	F	NA		980	G	2001
						From: 18-654 To: 18-631									

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Design Hour	QK	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
(618)	0.95	1000	G	94%	1%	3%	2%	1%	0%	F	NA	1000	G	2001	
				From:	18-631										
				To:	18-629										
(618)	2.00	980	G	94%	1%	3%	2%	1%	0%	F	NA	990	G	2001	
				From:	New Kent County Line										
				To:	Dead End										
(619)	2.56	250	R								NA	NA		1999	
				From:	18-638										
(619)	0.91	980	R								NA	NA		1999	
				From:	SR 5										
				To:	18-609										
(620)	2.51	420	R								NA	NA		1999	
				From:	18-618										
				To:	Dead End										
(621)	0.50	49	R								NA	NA		02/27/2002	
				From:	0.50 MW Dead End										
(621)	2.00	100	R								NA	NA		1999	
				From:	18-623										
				To:	SR 106										
(622)	0.98	120	R								NA	NA		1999	
				From:	18-600										
				To:	18-613										
(623)	2.67	320	R								NA	NA		1999	
				From:	SR 5										
(623)	4.17	670	R								NA	NA		1999	
				From:	18-621										
(623)	1.19	380	R								NA	NA		1999	
				From:	18-615										
(623)	1.00	130	R								NA	NA		1999	
				From:	1.00 MN 18-615										
(623)	1.00	20	R								NA	NA		02/27/2002	
				From:	Dead End										
				To:	18-615 WEST										
(624)	3.10	160	R								NA	NA		1999	
				From:	18-615 EAST										
				To:	18-658										
(625)	2.35	270	R								NA	NA		1999	
				From:	18-609										
				To:	Dead End										
(626)	0.50	10	R								NA	NA		02/27/2002	
				From:	0.50 MN Dead End										
(626)	1.00	420	R								NA	NA		1999	
				From:	18-615										
				To:	18-623										
(627)	1.80	320	R								NA	NA		1999	
				From:	Dead End										
				To:	Dead End										
(628)	0.04	280	R								NA	NA		1999	
				From:	18-644										
				To:	0.26 MW 18-618										
(629)	0.46	40	R								NA	NA		02/27/2002	
				From:	Dead End										
				To:	18-602										
(630)	0.52	580	R								NA	NA		1999	
				From:	18-611										

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						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
630	1.07	400	R			From: 18-611					NA		NA		1999
						To: 18-631									
631	0.60	760	R			From: 18-618					NA		NA		1999
						To: 18-630									
631	3.20	320	R			From: 18-609					NA		NA		1999
						To: 18-609									
632	1.00	46	R			From: Dead End					NA		NA		02/27/2002
						To: SR 5									
633	0.25	210	R			From: Dead End					NA		NA		1999
						To: 18-640									
634	0.16	160	R			From: Dead End					NA		NA		1999
						To: SR 155									
635	0.50	260	R			From: 18-620					NA		NA		1999
						To: Dead End									
636	0.65	210	R			From: SR 5					NA		NA		1999
						To: Dead End									
637	0.50	110	R			From: 19-609					NA		NA		1999
						To: Dead End									
638	0.66	230	R			From: 18-619					NA		NA		1999
						To: Dead End									
639	1.00	310	R			From: Dead End					NA		NA		1999
						To: 18-607									
640	0.06	140	R			From: SR 5 WEST					NA		NA		1999
						To: 18-633									
640	0.10	120	R			From: 18-633					NA		NA		1999
						To: SR 5 EAST									
641	1.50	400	R			From: Dead End					NA		NA		1999
						To: 18-607									
642	0.73	170	R			From: Dead End					NA		NA		1999
						To: 18-607									
643	0.02	100	R			From: 18-644					NA		NA		1999
						To: SR 5									
644	0.31	230	R			From: SR 5 WEST					NA		NA		1999
						To: 18-628									
644	0.14	920	R			From: 18-628					NA		NA		1999
						To: SR 5 EAST									
645	0.17	80	R			From: Dead End					NA		NA		02/27/2002
						To: SR 5									

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						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
(646)	0.20	40	R	From: 18-612							NA	NA		02/27/2002	
				To: Dead End											
(647)	0.43	160	R	From: 18-618							NA	NA		1999	
				To: Dead End											
(648)	0.30	30	R	From: Dead End							NA	NA		02/27/2002	
				To: 18-607											
(649)	0.51	70	R	From: 18-618							NA	NA		02/27/2002	
				To: Dead End											
(650)	3.20	370	R	From: SR 106							NA	NA		1999	
				To: 18-609											
(651)	0.20	20	R	From: SR 155							NA	NA		02/27/2002	
				To: Dead End											
(652)	0.31	40	R	From: Dead End							NA	NA		1999	
				To: SR 106											
(653)	0.12	400	R	From: 18-609							NA	NA		1999	
				To: 18-603											
(654)	0.40	60	R	From: 18-618							NA	NA		1999	
				To: 0.40 ME 18-618											
(654)	0.60	9	R	From: Dead End							NA	NA		02/27/2002	
				To: 18-650											
(655)	0.35	60	R	From: 18-650							NA	NA		02/27/2002	
				To: Dead End											
(656)	0.10	160	R	From: SR 106							NA	NA		1999	
				To: 18-603											
(658)	3.10	230	R	From: SR 5							NA	NA		1999	
				To: 18-607											
(659)	1.01	130	R	From: Dead End							NA	NA		1999	
				To: SR 5											
(660)	0.32	230	R	From: Dead End							NA	NA		1999	
				To: SR 155											
(661)	0.46	150	R	From: 18-604 NORTH							NA	NA		1999	
				To: 18-604 SOUTH											
(662)	0.05	80	R	From: 18-612							NA	NA		1999	
				To: Dead End											
(663)	0.11	40	R	From: Dead End							NA	NA		1999	
				To: 18-607											
(664)	0.45	310	R	From: SR 106 SOUTH							NA	NA		02/27/2002	
				To: SR 106 NORTH											

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Design Hour	QK	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail						
Charles City County															
665	0.18	90	R	From: SR 5							NA	NA			02/27/2002
				To: Dead End											
666	0.54	140	R	From: Dead End							NA	NA			02/27/2002
				To: 18-603											
667	0.22	370	R	From: 18-664							NA	NA			02/27/2002
				To: Dead End											
670	0.19	160	R	From: Dead End							NA	NA			02/27/2002
				To: 18-609											
675	0.21	60	R	From: Cul-de-Sac							NA	NA			1999
				To: 18-610											
680	0.42	90	R	From: Cul-de-Sac							NA	NA			1999
				To: 18-603											
803	0.50	140	R	From: Dead End							NA	NA			02/27/2002
				To: 18-603											
9088	0.05	50	R	From: 18-644							NA	NA			1999
				To: 0.05 ME 18-644											
9088	0.06	20	R	From: 18-643; 18-644							NA	NA			1999
				To: 18-615											
9089	0.06	310	R	From: Charles City High School							NA	NA			1992
				To: 18-602											
9476	0.02	210	R	From: 0.02 MS 18-602							NA	NA			1992
				To: Charles City Primary School											
9671	0.10	210	R	From: 18-609							NA	NA			1992
				To: Charles City Elem School											