

2016
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

106

City of Colonial Heights

Information in this report is included in Report

20

(Chesterfield 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
 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
 Bus - Business Route
Bypass - Bypass Route
Truck - Truck Route
- ALT
 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
2016
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Colonial Heights

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
From: NCL Petersburg To: [Redacted] 1 301 Boulevard	City of Colonial Heights	0.53	14000	G	99%	0%	0%	0%	0%	0%	F	0.098		0.583	15000	G
From: Dupuy Ave To: [Redacted] 1 301 Boulevard	City of Colonial Heights	0.40	21000	G	99%	0%	0%	0%	0%	0%	F	0.085		0.535	22000	G
From: Westover Ave To: [Redacted] 1 301 Boulevard	City of Colonial Heights	0.33	22000	B	99%	0%	0%	0%	0%	0%	C	0.099		0.515	24000	B
From: Branders Bridge Rd To: [Redacted] 1 301 Boulevard	City of Colonial Heights	0.26	26000	G	99%	0%	0%	0%	0%	0%	F	0.081		0.503	28000	G
From: Temple Ave To: [Redacted] 1 301 144 Boulevard	City of Colonial Heights	0.74	21000	G	99%	0%	0%	0%	0%	0%	F	0.09		0.530	23000	G
From: Lakeview Ave To: [Redacted] 1 301 144 Boulevard	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	0%	F	0.088		0.517	23000	G
From: Ellerslie Ave To: [Redacted] 1 301 144 Boulevard	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	0%	F	0.091		0.501	27000	G
From: Sherwood Ave To: [Redacted] 1 301 144 Boulevard	City of Colonial Heights	0.62	25000	F	99%	0%	0%	0%	0%	0%	F	0.087		0.567	26000	F
From: NCL Colonial Heights To: [Redacted] 95 Ramp	City of Colonial Heights (Maint: 20)	0.18	NA									NA			NA	
From: I-95-S054A JB-20 FROM RT 95 To: SR 144 FROM RT 95 North 95	City of Colonial Heights (Maint: 20)	0.21	55000	A	92%	1%	1%	1%	6%	0%	F	0.09			54000	A
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			110000	A	91%	1%	1%	1%	6%	0%	F	0.088	A	0.523	108000	A
From: Southpark Blvd To: [Redacted] North 95	City of Colonial Heights (Maint: 20)	0.98	47000	A	92%	1%	1%	1%	6%	0%	F	0.089			46000	A
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			95000	A	91%	1%	1%	1%	6%	0%	F	0.087	A	0.514	93000	A
From: SR 144 Temple Ave To: [Redacted] North 95	City of Colonial Heights (Maint: 20)	2.38	52000	A	92%	1%	1%	1%	6%	0%	C	0.088			52000	A
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			104000	A	91%	1%	1%	1%	6%	0%	C	0.088	A	0.517	103000	A
From: NCL Colonial Heights To: [Redacted] North 95 Ramp	City of Colonial Heights (Maint: 20)	0.21	11000	A								0.108			11000	A
From: I-95 North To: 106-2 Southpark Blvd North 95 Ramp	City of Colonial Heights (Maint: 20)	0.31	5900	G	98%	0%	0%	0%	1%	0%	C	0.099			5900	G
From: I-95 North To: Ramp from I-95 South North 95 Ramp	City of Colonial Heights (Maint: 20)	0.31	5900	G	98%	0%	0%	0%	1%	0%	C	0.099			5900	G

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							2Axle	3+Axle	1Trail	2Trail						
South 95	From: NCL Petersburg															
	City of Colonial Heights (Maint: 20)	0.37	55000	A	91%	1%	1%	1%	6%	0%	F	0.089		54000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		110000	A	91%	1%	1%	1%	6%	0%	F	0.088	A	0.523	108000	A
South 95	To: Southpark Blvd															
	City of Colonial Heights (Maint: 20)	1.05	48000	A	91%	1%	1%	1%	6%	0%	F	0.088		47000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		95000	A	91%	1%	1%	1%	6%	0%	F	0.087	A	0.514	93000	A
South 95	To: SR 144 Temple Ave															
	City of Colonial Heights (Maint: 20)	2.15	52000	A	91%	1%	1%	1%	6%	0%	C	0.089		51000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		104000	A	91%	1%	1%	1%	6%	0%	C	0.088	A	0.517	103000	A
South 95	To: NCL Colonial Heights															
	From: I-95 South															
South 95	Ramp	City of Colonial Heights (Maint: 20)	0.06	2900	G							0.099		2900	G	
	To: West Roslyn Rd															
South 95	Ramp	City of Colonial Heights (Maint: 20)	0.06	11000	G	97%	0%	1%	1%	1%	0%	C	0.098	11000	G	
	To: Ramp from I-95 North															
144	Temple Ave	City of Colonial Heights	0.93	30000	G	99%	0%	0%	0%	0%	0%	F	0.1	0.702	31000	G
	To: Conduit Rd															
144	Temple Ave	City of Colonial Heights	0.37	35000	G	99%	0%	0%	0%	0%	0%	F	0.085	0.546	36000	G
	To: I-95															
144	Temple Ave	City of Colonial Heights	0.50	26000	G	99%	0%	0%	0%	0%	0%	F	0.080	0.552	27000	G
	To: US 1 Boulevard															
144 1 301	Boulevard	City of Colonial Heights	0.74	21000	G	99%	0%	0%	0%	0%	0%	F	0.09	0.530	23000	G
	To: Lakeview Ave															
144 1 301	Boulevard	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	0%	F	0.088	0.517	23000	G
	To: Ellerslie Ave															
144 1 301	Boulevard	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	0%	F	0.091	0.501	27000	G
	To: Sherwood Ave															
144 1 301	Boulevard	City of Colonial Heights	0.62	25000	F	99%	0%	0%	0%	0%	0%	F	0.087	0.567	26000	F
	To: NCL Colonial Heights															
144	Ramp	City of Colonial Heights (Maint: 20)	0.15	15000	G	97%	0%	1%	1%	1%	0%	C	0.088	15000	G	
	To: Ramp Split															
144	Ramp	City of Colonial Heights (Maint: 20)	0.27	7400	G	98%	0%	0%	1%	1%	0%	C	0.083	7400	G	
	To: I-95 South															
144	Ramp	City of Colonial Heights (Maint: 20)	0.38	5900	G	97%	0%	1%	1%	1%	0%	C	0.11	5900	G	
	To: Ramp Split															
	To: I-95 North															

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							2Axle	3+Axle	1Trail	2Trail						
	From: NCL Petersburg															
301 1 Boulevard	City of Colonial Heights	0.53	14000	G	99%	0%	0%	0%	0%	F	0.098		0.583	15000	G	
	To: Dupuy Ave															
	From: Lynchburg Ave															
301 1 Boulevard	City of Colonial Heights	0.40	21000	G	99%	0%	0%	0%	0%	F	0.085		0.535	22000	G	
	To: Westover Ave															
	From: Branders Bridge Rd															
301 1 Boulevard	City of Colonial Heights	0.33	22000	B	99%	0%	0%	0%	0%	C	0.099		0.515	24000	B	
	To: Temple Ave															
	From: Lakeview Ave															
301 1 144 Boulevard	City of Colonial Heights	0.26	26000	G	99%	0%	0%	0%	0%	F	0.081		0.503	28000	G	
	To: Ellerslie Ave															
	From: Sherwood Ave															
301 1 144 Boulevard	City of Colonial Heights	0.74	21000	G	99%	0%	0%	0%	0%	F	0.09		0.530	23000	G	
	To: NCL Colonial Heights															
	From: NCL Colonial Heights															
301 1 144 Boulevard	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	F	0.088		0.517	23000	G	
	To: NCL Colonial Heights															
	From: NCL Colonial Heights															
301 1 144 Boulevard	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	F	0.091		0.501	27000	G	
	To: NCL Colonial Heights															
	From: NCL Colonial Heights															
301 1 144 Boulevard	City of Colonial Heights	0.62	25000	F	99%	0%	0%	0%	0%	F	0.087		0.567	26000	F	

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Colonial Heights																
① C H Dimmock Pkwy	0.69	13000	G	99%	0%	0%	0%	0%	0%	F	0.088		0.526	14000	G	2016
② Southpark Blvd	0.31	23000	F	99%	0%	0%	0%	0%	0%	F	0.091		0.51	24000	F	2016
② Southpark Blvd	0.25	21000	G	99%	0%	0%	0%	0%	0%	F	0.094		0.518	23000	G	2016
② Southpark Blvd	0.05	7700	G	99%	0%	0%	0%	0%	0%	F	0.099		0.646	8400	G	2016
② Ramp	0.05	9500	G								0.119			9500	G	2016
② Ramp	0.19	3000	G								0.101			3000	G	2016
④ Sherwood Dr	0.25	3100	G	99%	0%	0%	0%	0%	0%	C	0.094		0.599	3400	G	2016
9020 Dupuy Ave	0.42	11000	F	99%	0%	1%	0%	0%	0%	C	0.087		0.573	12000	F	2016
9024 Westover Ave	0.66	5800	G	100%	0%	0%	0%	0%	0%	C	0.092		0.552	6300	G	2016
9026 Branders Bridge Rd	0.30	5700	G	99%	0%	0%	0%	0%	0%	C	0.085		0.579	6200	G	2016
9030 Lakeview Ave	0.85	7000	G	99%	0%	0%	0%	0%	0%	C	0.099		0.664	7700	G	2016
9032 E Ellerslie Ave	1.15	12000	G	99%	0%	0%	0%	0%	0%	C	0.093		0.517	13000	G	2016
9035 Washington Ave	0.37	660	G	98%	0%	1%	0%	0%	0%	C	0.092		0.635	720	G	2016
9035 Stuart Ave	0.10	1100	G	98%	0%	1%	0%	0%	0%	F	0.097		0.621	1200	G	2016
9035 Conduit Rd	0.05	1800	G	98%	0%	1%	0%	0%	0%	F	0.108		0.535	2000	G	2016
9035 Conduit Rd	0.24	2500	G	98%	0%	1%	0%	0%	0%	F	0.108		0.576	2700	G	2016
9035 Conduit Rd	0.22	4700	G	99%	0%	0%	0%	0%	0%	C	0.105		0.504	5100	G	2016
9035 Conduit Rd	0.47	8600	G	98%	0%	1%	0%	0%	0%	F	0.096		0.531	9300	G	2016
9035 Conduit Rd	0.54	19000	G	98%	0%	1%	0%	0%	0%	F	0.088		0.532	20000	G	2016
9035 Conduit Rd	2.02	4900	G	99%	0%	1%	0%	0%	0%	C	0.104		0.559	5300	G	2016
9035 Dunston Point Pkwy	0.28	950	G	99%	0%	1%	0%	0%	0%	F	0.117		0.577	1000	G	2016

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						2Axle	3+Axle	1Trail	2Trail								
City of Colonial Heights																	
9037 Hamilton Ave	0.67	510	From	US I Boulevard				1%	0%	0%	0%	C	0.117	0.507	550	G	2016
			To	E Westover Ave													
9037 Hamilton Ave	0.55	2000	From	Westover Ave				1%	0%	0%	0%	F	0.101	0.55	2100	G	2016
			To	Temple Ave													
9066 Lynchburg Ave	0.65	1500	From	US I Boulevard				0%	0%	0%	0%	C	0.1	0.551	1600	G	2016
			To	Conduit Rd													
Covington Rd		590	From	Cedarwood Ave				0%	0%	1%	0%	C	0.101	0.521	590	G	2016
			To	Appomatox Dr													
Elmwood Dr		470	From	Greenwood Ave				0%	0%	0%	0%	C	0.108	0.686	470	G	2016
			To	Cedarwood Ave													
Forestview Dr		320	From	Sherwood Ave				1%	0%	0%	0%	C	0.094	0.705	320	G	2016
			To	Brookhill Ave													
James Ave		750	From	Snead Ave								0.103	0.656	810	G	2016	
			To	Hamilton Ave													
Lafayette Ave		310	From	US I								0.097	0.707	340	G	2016	
			To	Danville Ave													
Longhorn Avenue		850	From	Angus Lane				1%	0%	0%	0%	C	0.099	0.724	850	G	2016
			To	Honeycreek Ct													
Maple Avenue		1200	From	Meridian Ave				1%	0%	0%	0%	C	0.091	0.559	1200	G	2016
			To	Cottage Grove Ave													
Ramp		7400	From	SR 144 Temple Ave				1%	2%	2%	0%	C	0.096	7400	G	2016	
			To	I-95 North													
Richmond Ave		320	From	US I								0.110	0.56	350	G	2016	
			To	Hill Pl													
Riverview Rd		160	From	Roslyn Ave								0.142	0.689	160	G	2016	
			To	Pinehurst Ave													
Snead Ave		1000	From	Walnut Ave								0.104	0.644	1100	G	2016	
			To	Mac Arthur Ave													
Swift Creek Lane		640	From	Flintlock Dr				1%	0%	0%	0%	C	0.098	0.552	640	G	2016
			To	Biltmore Dr													
W Roslyn Ave		500	From	Conduit Rd								0.132	0.551	550	G	2016	
			To	Washington Ave													
Walnut Ave		220	From	Hamilton Ave								0.107	0.524	240	G	2016	
			To	Elko Ave													
White Bank Rd		620	From	Moose Ave				1%	0%	0%	0%	C	0.254	0.853	620	G	2016
			To	Dunston Point Pkwy													
Wrights Ave		380	From	Meridian Ave								0.118	0.67	420	G	2016	
			To	Battery Pl													