

2011
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



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
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																
1 301 Boulevard	City of Colonial Heights	0.53	12000	G	99%	0%	0%	0%	0%	0%	F	NA		13000	G	
To: Dupuy Ave																
From: Dupuy Ave																
1 301 Boulevard	City of Colonial Heights	0.40	25000	G	99%	0%	0%	0%	0%	0%	F	NA		26000	G	
To: Westover Ave																
From: Westover Ave																
1 301 Boulevard	City of Colonial Heights	0.33	24000	A	99%	0%	0%	0%	0%	0%	C	0.1	A	25000	A	
To: Branders Bridge Rd																
From: Branders Bridge Rd																
1 301 Boulevard	City of Colonial Heights	0.26	25000	G	99%	0%	0%	0%	0%	0%	F	NA		26000	G	
To: Temple Ave																
From: Temple Ave																
1 301 144 Boulevard	City of Colonial Heights	0.74	22000	G	99%	0%	0%	0%	0%	0%	F	NA		24000	G	
To: Lakeview Ave																
From: Lakeview Ave																
1 301 144 Boulevard	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	0%	F	NA		22000	G	
To: Ellerslie Ave																
From: Ellerslie Ave																
1 301 144 Boulevard	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	0%	F	NA		27000	G	
To: Sherwood Ave																
From: Sherwood Ave																
1 301 144 Boulevard	City of Colonial Heights	0.62	25000	G	99%	0%	0%	0%	0%	0%	F	NA		27000	G	
To: NCL Colonial Heights																
From: NCL Colonial Heights																
95 Ramp	City of Colonial Heights (Maint: 20)	0.18	NA									NA		NA		
To: SR 144 FROM RT 95																
From: SR 144 FROM RT 95																
North 95	City of Colonial Heights (Maint: 20)	0.21	49000	A	91%	1%	1%	1%	7%	0%	F	0.091	A	49000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			99000	A	91%	1%	1%	1%	7%	0%	F	0.091	A	98000	A	
To: Southpark Blvd																
From: Southpark Blvd																
North 95	City of Colonial Heights (Maint: 20)	0.98	42000	A	91%	1%	1%	1%	7%	0%	F	0.092	A	42000	A	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			84000	A	91%	1%	1%	1%	7%	0%	F	0.090	A	84000	A	
To: SR 144 Temple Ave																
From: SR 144 Temple Ave																
North 95	City of Colonial Heights (Maint: 20)	2.38	47000	B	91%	1%	1%	1%	7%	0%	C	0.091	A	47000	B	
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			94000	B	91%	1%	1%	1%	7%	0%	C	NA		94000	B	
To: NCL Colonial Heights																
From: NCL Colonial Heights																
North 95 Ramp	City of Colonial Heights (Maint: 20)	0.21	10000	A								0.106	A	10000	A	
To: 106-2 Southpark Blvd																
From: 106-2 Southpark Blvd																
North 95 Ramp	City of Colonial Heights (Maint: 20)	0.31	5900	G	98%	0%	0%	0%	1%	0%	C	NA		5900	G	
To: Ramp from I-95 South																
From: Ramp from I-95 South																

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City of Colonial Heights

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							2Axle	3+Axle	1Trail	2Trail						
South 95	From: NCL Petersburg															
	City of Colonial Heights (Maint: 20)	0.37	49000	A	91%	1%	1%	1%	7%	0%	F	0.092	A	49000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		99000	A	91%	1%	1%	1%	7%	0%	F	0.091	A	98000	A	
South 95	To: Southpark Blvd															
	City of Colonial Heights (Maint: 20)	1.05	42000	A	91%	1%	1%	1%	7%	0%	F	0.092	A	42000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		84000	A	91%	1%	1%	1%	7%	0%	F	0.090	A	84000	A	
South 95	To: SR 144 Temple Ave															
	City of Colonial Heights (Maint: 20)	2.15	47000	B	91%	1%	1%	1%	7%	0%	C	0.092	A	47000	B	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		94000	B	91%	1%	1%	1%	7%	0%	C	NA		94000	B	
South 95	To: NCL Colonial Heights															
South 95	From: I-95-S TO CONNECTOR RD															
Ramp	City of Colonial Heights (Maint: 20)	0.06	NA									NA		NA		
South 95	To: JB-106 FROM RT 95															
South 95	From: I-95 South															
Ramp	City of Colonial Heights (Maint: 20)	0.06	10000	G	97%	0%	1%	1%	1%	0%	C	NA		10000	G	
South 95	To: Ramp from I-95 North															
144	From: ECL Colonial Heights															
Temple Ave	City of Colonial Heights	0.93	29000	G	98%	0%	0%	0%	1%	0%	F	NA		30000	G	
144	To: Conduit Rd															
Temple Ave	City of Colonial Heights	0.37	35000	G	98%	0%	0%	1%	1%	0%	C	NA		36000	G	
144	To: I-95															
Temple Ave	City of Colonial Heights	0.50	27000	G	98%	0%	0%	0%	1%	0%	F	0.087	F	0.529	28000	G
144	To: US 1 Boulevard															
144	From: Lakeview Ave															
1	City of Colonial Heights	0.74	22000	G	99%	0%	0%	0%	0%	0%	F	NA		24000	G	
301	To: Ellerslie Ave															
144	From: Lakeview Ave															
1	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	0%	F	NA		22000	G	
301	To: Sherwood Ave															
144	From: Ellerslie Ave															
1	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	0%	F	NA		27000	G	
301	To: NCL Colonial Heights															
144	From: SR 144 Temple Ave															
Ramp	City of Colonial Heights (Maint: 20)	0.15	15000	G	97%	0%	1%	1%	1%	0%	C	NA		15000	G	
144	To: Ramp Split															
Ramp	City of Colonial Heights (Maint: 20)	0.27	7100	G	98%	0%	0%	1%	1%	0%	C	NA		7100	G	
144	To: I-95 South															
144	From: Ramp Split															
Ramp	City of Colonial Heights (Maint: 20)	0.38	5900	G	97%	0%	1%	1%	1%	0%	C	NA		5900	G	
144	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	12000	G	99%	0%	0%	0%	0%	F	NA			13000	G	
	To: Dupuy Ave															
	From: Dupuy Ave															
301 1 Boulevard	City of Colonial Heights	0.40	25000	G	99%	0%	0%	0%	0%	F	NA			26000	G	
	To: Lynchburg Ave															
	From: Lynchburg Ave															
301 1 Boulevard	City of Colonial Heights	0.33	24000	A	99%	0%	0%	0%	0%	C	0.1	A		25000	A	
	To: Westover Ave															
	From: Westover Ave															
301 1 Boulevard	City of Colonial Heights	0.26	25000	G	99%	0%	0%	0%	0%	F	NA			26000	G	
	To: Branders Bridge Rd															
	From: Branders Bridge Rd															
301 1 144 Boulevard	City of Colonial Heights	0.74	22000	G	99%	0%	0%	0%	0%	F	NA			24000	G	
	To: Temple Ave															
	From: Temple Ave															
301 1 144 Boulevard	City of Colonial Heights	0.17	21000	G	99%	0%	0%	0%	0%	F	NA			22000	G	
	To: Lakeview Ave															
	From: Lakeview Ave															
301 1 144 Boulevard	City of Colonial Heights	0.19	25000	G	99%	0%	0%	0%	0%	F	NA			27000	G	
	To: Ellerslie Ave															
	From: Ellerslie Ave															
301 1 144 Boulevard	City of Colonial Heights	0.62	25000	G	99%	0%	0%	0%	0%	F	NA			27000	G	
	To: Sherwood Ave															
	From: Sherwood Ave															
	To: NCL Colonial Heights															

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City of Colonial Heights

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%	1%	0%	0%	0%	F	0.093	F	0.507	14000	G	2011
						From: Southpark Blvd										
						To: Temple Ave										
② Southpark Blvd	0.31	21000	G	99%	0%	1%	0%	0%	0%	F	NA		23000	G	2011	
						From: NB Ramp To I-95										
② Southpark Blvd	0.25	22000	G	99%	0%	1%	0%	0%	0%	F	NA		25000	G	2011	
						From: South Ave										
						To: C H Dimmock Pkwy										
② Southpark Blvd	0.05	9500	G	99%	0%	1%	0%	0%	0%	F	0.102	F	0.503	11000	G	2011
						From: Southpark Circle										
						To: Temple Ave										
② Ramp	0.05	NA									NA		NA			
						From: JB-106 FROM CONNECTOR RD										
						To: I-95-S FROM CONNECTOR RD										
② Ramp	0.19	NA									NA		NA			
						From: 106-2 I-95-N053A TO AND FROM RT										
						To: I-95-N FROM CONNECTOR										
④ Sherwood Dr	0.25	3600	G	99%	0%	1%	0%	0%	0%	C	0.095	F	0.605	3800	G	2011
						From: Forestview Dr										
						To: US 1 Boulevard										
⑨020 Dupuy Ave	0.42	13000	G								NA		14000	G	2011	
						From: WCL Colonial Heights										
						To: US 1 Boulevard										
⑨024 Westover Ave	0.66	6600	G	99%	0%	0%	0%	0%	0%	C	0.097	F	0.603	7200	G	2011
						From: US 1 Boulevard										
						To: Conduit Rd										
⑨026 Branders Bridge Rd	0.30	5300	G	99%	0%	1%	0%	0%	0%	C	0.094	F	0.598	5700	G	2011
						From: WCL Colonial Heights										
						To: US 1 Boulevard										
⑨030 Lakeview Ave	0.85	7400	G	99%	0%	1%	0%	0%	0%	C	0.097	F	0.652	7900	G	2011
						From: WCL Colonial Heights										
						To: US 1 Boulevard										
⑨032 E Ellerslie Ave	1.15	15000	G	99%	0%	0%	0%	0%	0%	C	0.092	F	0.51	16000	G	2011
						From: US 1 Boulevard										
						To: Conduit Rd										
⑨035 Washington Ave	0.37	570	G	97%	1%	1%	0%	0%	0%	C	0.113	F	0.549	610	G	2011
						From: US 1 Boulevard										
						To: Stuart Ave										
⑨035 Stuart Ave	0.10	980	G	97%	1%	1%	0%	0%	0%	F	0.111	F	0.631	1100	G	2011
						From: Washington Ave										
						To: Bristol Ave										
⑨035 Conduit Rd	0.05	1700	G	97%	1%	1%	0%	0%	0%	F	0.108	F	0.574	1800	G	2011
						From: Ivey Ave										
⑨035 Conduit Rd	0.24	2400	G	97%	1%	1%	0%	0%	0%	F	0.121	F	0.524	2600	G	2011
						From: Lynchburg Ave										
⑨035 Conduit Rd	0.22	5200	G	97%	1%	1%	1%	0%	0%	C	0.111	F	0.583	5600	G	2011
						From: Westover Ave										
⑨035 Conduit Rd	0.47	17000	G	98%	1%	0%	0%	0%	0%	C	0.097	F	0.536	18000	G	2011
						From: Temple Ave										
⑨035 Conduit Rd	0.54	21000	G	97%	1%	1%	0%	0%	0%	F	0.091	F	0.559	23000	G	2011
						From: E Ellerslie Ave										
⑨035 Conduit Rd	2.02	5700	G	99%	1%	0%	0%	0%	0%	C	0.101	F	0.588	6100	G	2011
						From: Waterfront Dr										
⑨035 Dunston Point Pkwy	0.28	800	G	99%	1%	0%	0%	0%	0%	F	0.103	F	0.628	870	G	2011
						From: Dead End										

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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																
(9037) Hamilton Ave	0.67	460	G	98%	1%	1%	0%	0%	0%	C	0.11	F	0.529	500	G	2011
(9037) Hamilton Ave	0.55	2200	G	99%	1%	0%	0%	0%	0%	F	0.103	F	0.535	2300	G	2011
(9066) Lynchburg Ave	0.65	1900	G	99%	0%	0%	0%	0%	0%	C	0.103	F	0.533	2000	G	2011
Covington Rd		590	G								NA			590	G	2011
Elmwood Dr		470	G								NA			470	G	2011
Forestview Dr		320	G								NA			320	G	2011
James Ave		800	G								0.109	F	0.66	850	G	2011
Lafayette Ave		350	G								0.125	F	0.53	370	G	2011
Longhorn Avenue		850	G								NA			850	G	2011
Maple Avenue		1200	G								NA			1200	G	2011
Ramp		6000	G	96%	0%	1%	2%	2%	0%	C	NA			6000	G	2011
Richmond Ave		620	G								0.124	F	0.512	660	G	2011
Riverview Rd		160	G								NA			160	G	2011
Snead Ave		1200	G								0.123	F	0.628	1300	G	2011
Swift Creek Lane		640	G								NA			640	G	2011
W Roslyn Ave		530	G								0.132	F	0.688	570	G	2011
Walnut Ave		230	G								0.114	F	0.532	250	G	2011
White Bank Rd		620	G								NA			620	G	2011
Wrights Ave		460	G								0.115	F	0.672	490	G	2011