

2002

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

where available

Special Locality Report

116

City of Hopewell

Prepared By

**Virginia Department of Transportation
Mobility Management Division**

In Cooperation With

**U.S. Department of Transportation
Federal Highway Administration**

Virginia Department of Transportation
Mobility Management 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 at VDOT Mobility Management’s 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’s Mobility Management 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

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months 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 30th Highest Hour
- N Peak Hour 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



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
 Mobility Management Division
 2002
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Hopewell

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
City of Hopewell																	
						From: WCL Hopewell											
10	Randolph Rd	0.12	18000	F	94%	0%	2%	1%	3%	0%	F	0.081	F	0.509	20000	F	2002
						To: North 6th Ave											
10	Randolph Rd	0.40	11000	F	94%	0%	2%	1%	3%	0%	F	0.087	F	0.556	12000	F	2002
						To: Main St											
10	Randolph Rd	0.74	11000	F	94%	0%	2%	1%	3%	0%	F	0.082	F	0.605	12000	F	2002
						To: Winston Churchill Dr											
10	Randolph Rd	1.26	9500	F	94%	0%	2%	1%	3%	0%	F	0.085	F	0.628	10000	F	2002
						To: ECL Hopewell											
						From: WCL Hopewell											
36	Oaklawn Blvd	0.52	30000	F	97%	0%	1%	0%	1%	0%	F	0.085	F	0.522	30000	F	2002
						To: 74-630 Jefferson Park Rd											
36	Oaklawn Blvd	0.65	30000	F	97%	0%	1%	0%	1%	0%	F	0.083	F	0.527	30000	F	2002
						To: SR 36 Par											
36	Oaklawn Blvd	0.43	11000	F	97%	0%	1%	0%	1%	0%	F	0.079	F		11000	F	2002
	Combined Traffic:	0	F								0.078	F	0.572	0	F		
						From: SR 36 Par, Woodlawn St; Kenwood Ave											
36	Winston Churchill Dr	0.60	22000	F	97%	0%	1%	0%	1%	0%	F	0.083	F	0.548	22000	F	2002
						To: Miles Ave											
36	Winston Churchill Dr	0.39	14000	F	97%	0%	1%	0%	1%	0%	F	0.083	F	0.56	14000	F	2002
						To: SR 156 High Ave											
36	Winston Churchill Dr	0.25	14000	F	97%	0%	1%	0%	1%	0%	F	0.083	F	0.657	14000	F	2002
						To: SR 156; Arlington Rd											
36	Arlington Rd	0.12	2200	F	97%	0%	1%	0%	1%	0%	F	0.088	F	0.505	2200	F	2002
						To: SR 156 Winston Churchill Dr											
						To: 15th Ave											
36	15th Ave	0.77	6300	F	99%	0%	1%	0%	0%	0%	C	0.095	F	0.573	6700	F	2002
						From: Arlington Rd											
						To: City Point Rd											
36	15th Ave	0.22	2700	F	99%	0%	1%	0%	0%	0%	F	0.094	F	0.505	2800	F	2002
						To: Broadway St											
						From: 15th Ave											
36	Broadway St	0.44	8100	F	99%	0%	1%	0%	0%	0%	F	0.090	F	0.661	8600	F	2002
						To: 6th Ave											
						From: Broadway St											
36	6th Ave	0.31	10000	F	99%	0%	1%	0%	0%	0%	F	0.085	F	0.637	11000	F	2002
						To: SR 10 Randolph Rd											
						From: SR 36 Oaklawn Blvd											
36	Woodlawn St	0.61	12000	F	97%	0%	1%	1%	1%	0%	C	0.079	F		13000	F	2002
	Combined Traffic:	24000	F	97%	0%	1%	0%	1%	0%	0%	F	NA		24000	F		
						To: Surry Ave											
36	Woodlawn St	0.35	9500	F	97%	0%	1%	1%	1%	0%	C	0.091	F		10000	F	2002
	Combined Traffic:	21000	F	97%	0%	1%	0%	1%	0%	0%	F	NA		21000	F		
						To: SR 36 Oaklawn Blvd; Kenwood Ave											
						From: SCL Hopewell											
156	Arlington Rd	0.56	9500	F	97%	1%	1%	0%	1%	0%	F	0.083	F	0.551	10000	F	2002
						To: Berry Street											
156	High Ave	0.38	6500	F	98%	0%	0%	0%	1%	0%	C	0.092	F	0.680	6900	F	2002
						To: Winston Churchill Rd											
						From: SRT 36											
156	36 Winston Churchill	0.25	14000	F	97%	0%	1%	0%	1%	0%	F	0.083	F	0.657	14000	F	2002
						To: N RT 36											
						From: Arlington Rd											
156	Winston Churchill Rd	0.55	17000	F	97%	0%	1%	1%	1%	0%	F	0.082	F	0.547	17000	F	2002
						To: South 6Th Ave											

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Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
City of Hopewell																	
(156) Winston Churchill Dr	0.80	8200	F	97%	0%	1%	1%	1%	0%	F	0.084	F	0.541	8200	F	2002	
						From: South 6Th Ave											
						To: Randolph Rd											
(156) (10) Randolph Rd	1.26	9500	F	94%	0%	2%	1%	3%	0%	F	0.085	F	0.628	10000	F	2002	
						From: SRT 10											
						To: ECL Hopewell											
East (295)	3.30	18000	G	72%	1%	2%	1%	24%	0%	F	0.079	F		17000	G	2002	
						From: NCL Hopewell											
Combined Traffic:						34000				G				72% 1% 2% 1% 24% 0%			
						To: SCL Hopewell											
West (295)	3.30	15000	G	72%	1%	2%	1%	24%	0%	F	0.094	F		14000	G	2002	
						From: NCL Hopewell											
Combined Traffic:						34000				G				72% 1% 2% 1% 24% 0%			
						To: SCL Hopewell											
(1) Perrymont St	0.34	3300	F	99%	0%	0%	0%	0%	0%	C	0.092	F	0.636	3500	F	2002	
						From: Western St											
						To: Kippax Dr											
(2) Kippax Dr	0.19	3300	F	99%	0%	0%	0%	1%	0%	C	0.093	F	0.560	3500	F	2002	
						From: Perrymont St											
						To: Cedar Level Rd											
(3) Old Iron Rd	0.42	3300	F	99%	0%	1%	0%	1%	0%	C	0.089	F	0.563	3500	F	2002	
						From: SCL Hopewell											
						To: Courthouse Rd											
(4) Jackson Farm Rd	0.61	2100	F	98%	1%	0%	0%	0%	0%	C	0.102	F	0.6	2200	F	2002	
						From: Dead End near Pin Oak Dr											
						To: 116-9047 Cedar Level Rd											
(5) Western St	0.05	NA									NA			NA			
						From: 166-6 Barkley St; 116-9076											
						To: 116-1 Perrymont St											
(6) Barkely St	0.13	30	F	98%	0%	1%	0%	0%	0%	F	0.197	F	0.65	40	F	2002	
						From: 116-9076 Western St											
						To: Woodlawn St											
(6) Woodlawn St	0.39	490	F	98%	0%	1%	0%	0%	0%	C	0.104	F	0.579	520	F	2002	
						From: Barkley St											
						To: 116-9047 Cedar Level Rd											
(9036) Danville St	0.03	1400	F	98%	0%	0%	0%	1%	0%	F	0.095	F	0.537	1500	F	2002	
						From: South Mesa Dr											
						To: Miles Ave											
(9036) Miles Ave	0.68	4100	F	98%	0%	0%	0%	1%	0%	C	0.087	F	0.513	4300	F	2002	
						From: Danville Street											
						To: Oakland Blvd											
(9036) Oaklawn Blvd	0.18	10000	F								0.085	F	0.547	11000	F	2002	
						From: Miles Ave											
						To: Short Street											
(9036) Oaklawn Blvd	0.40	NA									NA			NA			
						From: Short Street											
						To: SR 36											
(9038) River Rd	1.01	4100	F	98%	0%	1%	0%	1%	0%	C	0.102	F	0.624	4300	F	2002	
						From: WCL Hopewell											
						To: South Mesa Dr											
(9040) City Point Rd	0.75	4600	F	99%	0%	0%	0%	0%	0%	C	0.09	F	0.586	4800	F	2002	
						From: North Mesa Dr											
						To: South 15Th Ave											
(9040) City Point Rd	0.41	6900	F	99%	0%	0%	0%	0%	0%	F	0.089	F	0.564	7300	F	2002	
						From: South 15Th Ave											
						To: South 6Th Ave											
(9040) City Point Rd	0.29	6200	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.540	6600	F	2002	
						From: South 6Th Ave											
						To: Main St											

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						2Axle	3+Axle	1Trail	2Trail								
City of Hopewell																	
9040 Main St	0.13	3500	F	99%	0%	0%	0%	0%	0%	F	0.108	F	0.515	3700	F	2002	
				From:	City Point Rd												
				To:	Randolph Rd												
9042 West Broadway St	0.39	NA									NA			NA			
				From:	Colonial Dr												
				To:	116-9047 N Mesa Dr												
9042 West Broadway St	0.55	7800	F	99%	0%	0%	0%	0%	0%	C	0.091	F	0.622	8300	F	2002	
				From:	North Mesa Dr												
				To:	North 21St Ave												
9042 West Broadway St	0.13	6300	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.666	6700	F	2002	
				From:	North 15Th Ave												
				To:	North 6Th Ave												
9042 West Broadway St	0.36	4600	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.644	4900	F	2002	
				From:	Randolph Rd												
				To:	Cedar Ln												
9043 Courthouse Rd	0.95	5900	F	99%	0%	0%	0%	1%	0%	C	0.088	F	0.502	6200	F	2002	
				From:	Ashland Ave												
				To:	Berry St												
9043 Berry St	0.29	5900	F	99%	0%	0%	0%	1%	0%	C	0.086	F	0.53	6200	F	2002	
				From:	Courthouse Rd												
				To:	Arlington Rd												
9043 Arlington Rd	0.12	4300	F	99%	0%	0%	0%	1%	0%	F	0.077	F	0.579	4600	F	2002	
				From:	High Ave												
				To:	Freeman St												
9043 Arlington Rd	0.38	5200	F	99%	0%	0%	0%	1%	0%	C	0.077	F	0.617	5500	F	2002	
				From:	Winston Churchill Dr												
				To:	Winston Churchill Dr												
9045 High Ave	0.09	2600	F	98%	0%	1%	0%	0%	0%	C	0.089	F	0.542	2700	F	2002	
				From:	Oaklawn Blvd												
				To:	Oaklawn Blvd												
9047 Ashland St	0.06	NA									NA			NA			
				From:	116-9043 Courthouse Rd												
				To:	SR 36 Oaklawn Blvd												
9047 Ashland St	0.10	5200	F								0.098	F	0.684	5500	F	2002	
				From:	SR 36-P Woodlawn St												
				To:	SR 36-P Woodlawn St												
9047 Ashland St	0.10	8300	G								NA			8600	G	2002	
				From:	116-6 Cedar Level Rd Western St												
				To:	Western St												
9047 Ashland St	0.07	6900	F								0.090	F	0.518	7300	F	2002	
				From:	116-2 Kippax Dr												
				To:	116-2 Kippax Dr												
9047 Cedar Level Rd	0.89	8000	F								0.081	F	0.521	8400	F	2002	
				From:	116-4 Jackson Farm Rd												
				To:	116-4; Cedar Level Rd												
9047 Jackson Farm Rd	0.27	7000	F	99%	1%	0%	0%	0%	0%	C	0.093	F	0.525	7500	F	2002	
				From:	S Mesa Dr												
				To:	Jackson Farm Rd												
9047 S Mesa Dr	0.46	6400	F	99%	1%	0%	0%	0%	0%	F	0.088	F	0.552	6700	F	2002	
				From:	116-9038 River Rd												
				To:	116-9038 River Rd												
9047 N Mesa Dr	0.23	11000	F	99%	1%	0%	0%	0%	0%	F	0.090	F	0.575	11000	F	2002	
				From:	166-9040 City Point Rd												
				To:	166-9040 City Point Rd												
9047 N Mesa Dr	0.20	6700	F	99%	1%	0%	0%	0%	0%	F	0.090	F	0.610	7100	F	2002	
				From:	116-9042 Broadway St												
				To:	116-9042 Broadway St												
9049 South 6Th Ave	0.52	10000	F	98%	0%	0%	1%	1%	0%	C	0.086	F	0.578	11000	F	2002	
				From:	Winston Churchill Dr												
				To:	City Point Rd												
9049 North 6Th Ave	0.15	8600	F	98%	0%	0%	1%	1%	0%	F	0.082	F	0.611	9100	F	2002	
				From:	City Point Rd												
				To:	West Broadway St												

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						2Axle	3+Axle	1Trail	2Trail							
City of Hopewell																
(9051) North 21St Ave	0.53	4500	F	98%	0%	0%	0%	1%	0%	C	0.085	F	0.576	4800	F	2002
				From:	West Broadway St											
				To:	Riverside Ave											
(9051) Riverside Ave	0.32	3800	F	98%	0%	0%	0%	1%	0%	F	0.093	F	0.647	4000	F	2002
				From:	North 21St Ave											
				To:	Randolph Rd											
(9074) City Point Rd	0.14	3900	F	98%	0%	1%	0%	0%	0%	C	0.098	F	0.509	4100	F	2002
				From:	Main St											
				To:	Randolph Rd											
(9076) Cousins Ave	0.17	4500	F	100%	0%	0%	0%	0%	0%	F	0.091	F	0.619	4800	F	2002
				From:	SR 36 Oaklawn Blvd											
				To:	Western St											
(9076) Western St	0.50	4400	F	100%	0%	0%	0%	0%	0%	C	0.092	F	0.609	4700	F	2002
				From:	Cousins Ave											
				To:	116-6 Barkey St; 116-5 Westem St											
Atlantic St		800	F								0.104	F		850	F	2002
				From:	20Th Ave											
				To:	21St Ave											
Barkley St		30	F								0.170	F		40	F	2002
				From:	Woodlawn St											
				To:	Western St											
Broadway St		3100	F								0.086	F		3300	F	2002
				From:	Randolph Rd											
				To:	Hopewell St											
Cloverdale Ave		150	F								0.133	F		160	F	2002
				From:	Arcadia Ave											
				To:	Delrose Dr											
Courthouse Rd		450	F								0.08	F		470	F	2002
				From:	Sibyl St											
				To:	Caroline Ave											
Davidson Ave		70	F								0.148	F		80	F	2002
				From:	Peterson Mill Rd											
				To:	Glendale St											
Day St		40	F								0.272	F		40	F	2002
				From:	20Th Ave											
				To:	16Th Ave											
Granby St		520	G								NA			540	G	2002
				From:	Roanoke Ave											
				To:	Sunnyside Ave											
Jackson St		260	F								0.134	F		270	F	2002
				From:	21St Ave											
				To:	20Th Ave											
Marion Ave		360	F								0.101	F		380	F	2002
				From:	West Broadway St											
				To:	Norton St											
Prince George Ave		200	F								0.114	F	0.528	210	F	2002
				From:	Day St											
				To:	West Broadway St											
Stewart Ave		310	G								NA			320	G	2002
				From:	Bassett St											
				To:	Jones St											