

**2003**

**Virginia Department of Transportation  
Daily Traffic Volume Estimates**

**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

**K Factor:** The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

**QK:** Quality of the Peak Hour 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 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

- 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
-  Secondary Route

### Special Routes

- Bus  
 Bus - Business Route
-  Bypas - 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  
 Mobility Management Division  
 2003  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 City of Hopewell

Route	Length	AADT	QA	Year
<b>City of Hopewell</b>				
From: WCL Hopewell				
10 Randolph Rd	0.12	18000	G	2003
To: North 6th Ave				
10 Randolph Rd	0.40	11000	G	2003
To: Main St				
10 Randolph Rd	0.74	11000	G	2003
To: Winston Churchill Dr				
10 Randolph Rd	1.26	9500	G	2003
To: ECL Hopewell				
From: WCL Hopewell				
36 Oaklawn Blvd	0.52	27000	G	2003
To: 74-630 Jefferson Park Rd				
36 Oaklawn Blvd	0.65	27000	G	2003
To: SR 36 Par				
36 Oaklawn Blvd	0.43	9900	G	2003
Combined Traffic:		23000	G	
To: SR 36 Par, Woodlawn St; Kenwood Ave				
36 Winston Churchill Dr	0.60	20000	G	2003
To: Miles Ave				
36 Winston Churchill Dr	0.39	13000	G	2003
To: SR 156 High Ave				
36 Winston Churchill Dr	0.25	12000	G	2003
To: SR 156; Arlington Rd				
From: SR 156 Winston Churchill Dr				
36 Arlington Rd	0.12	2000	G	2003
To: 15th Ave				
From: Arlington Rd				
36 15th Avenue	0.77	6400	G	2003
To: City Point Rd				
36 15th Avenue	0.22	2700	G	2003
To: Broadway St				
From: 15th Ave				
36 Broadway St	0.44	8200	G	2003
To: 6th Ave				
From: Broadway St				
36 6th Avenue	0.31	11000	G	2003
To: SR 10 Randolph Rd				
From: SR 36 Oaklawn Blvd				
36 Woodlawn St	0.61	13000	G	2003
Combined Traffic:		23000	G	
To: Surry Ave				
36 Woodlawn St	0.35	9600	G	2003
Combined Traffic:		19000	G	
To: SR 36 Oaklawn Blvd; Kenwood Ave				
From: SCL Hopewell				
156 Arlington Rd	0.56	9600	G	2003
To: Berry Street				
156 High Ave	0.38	6600	G	2003
To: Winston Churchill Rd				
From: S RT 36				
156 36 Winston Churchill Dr	0.25	12000	G	2003
To: N RT 36				
From: Arlington Rd				
156 Winston Churchill Rd	0.55	17000	G	2003
To: South 6Th Ave				
156 Winston Churchill Dr	0.80	8300	G	2003
To: Randolph Rd				

Route	Length	AADT	QA	Year
<b>City of Hopewell</b>				
From: S RT 10				
156 10 Randolph Rd	1.26	9500	G	2003
To: ECL Hopewell				
From: NCL Hopewell				
East 295	3.30	17000	F	2003
Combined Traffic:		35000	F	
East I-295 is signed as South I-295				
To: SCL Hopewell				
From: NCL Hopewell				
West 295	3.30	18000	F	2003
Combined Traffic:		35000	F	
West I-295 is signed as North I-295				
To: SCL Hopewell				
From: Western St				
1 Perrymont St	0.34	3300	G	2003
To: Kippax Dr				
From: Perrymont St				
2 Kippax Dr	0.19	3400	G	2003
To: Cedar Level Rd				
From: SCL Hopewell				
3 Old Iron Rd	0.42	3300	G	2003
To: Courthouse Rd				
From: Dead End near Pin Oak Dr				
4 Jackson Farm Rd	0.61	2100	G	2003
To: 116-9047 Cedar Level Rd				
From: 166-6 Barkley St; 116-9076				
5 Western St	0.05	NA		
To: 116-1 Perrymont St				
From: 116-9076 Western St				
6 Barkely St	0.13	30	G	2003
To: Woodlawn St				
From: Barkley St				
6 Woodlawn St	0.39	490	G	2003
To: 116-9047 Cedar Level Rd				
From: South Mesa Dr				
9036 Danville St	0.03	1400	G	2003
To: Miles Ave				
From: Danville Street				
9036 Miles Ave	0.68	4100	G	2003
To: Oakland Blvd				
From: Miles Ave				
9036 Oaklawn Blvd	0.18	10000	G	2003
To: Short Street				
9036 Oaklawn Blvd	0.40	NA		
To: SR 36				
From: WCL Hopewell				
9038 River Rd	1.01	4100	G	2003
To: South Mesa Dr				
From: North Mesa Dr				
9040 City Point Rd	0.75	4600	G	2003
To: South 15Th Ave				
9040 City Point Rd	0.41	7000	G	2003
To: South 6Th Ave				
9040 City Point Rd	0.29	6200	G	2003
To: Main St				
From: City Point Rd				
9040 Main St	0.13	3300	G	2003
To: Randolph Rd				

Virginia Department of Transportation  
 Mobility Management Division  
 2003  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 City of Hopewell

Route	Length	AADT	QA	Year
<b>City of Hopewell</b>				
From: Colonial Dr				
9042 West Broadway St	0.39	NA		
To: 116-9047 N Mesa Dr				
From: North Mesa Dr				
9042 West Broadway St	0.55	7900	G	2003
To: North 21St Ave				
9042 West Broadway St	0.13	6300	G	2003
To: North 15Th Ave				
From: North 6Th Ave				
9042 West Broadway St	0.36	4500	G	2003
To: Randolph Rd				
9042 East Broadway St	0.63	1800	G	2003
To: Cedar Ln				
From: Ashland Ave				
9043 Courthouse Rd	0.95	5900	G	2003
To: Berry St				
From: Courthouse Rd				
9043 Berry St	0.29	6000	G	2003
To: Arlington Rd				
From: High Ave				
9043 Arlington Rd	0.12	4400	G	2003
To: Freeman St				
9043 Arlington Rd	0.38	5300	G	2003
To: Winston Churchill Dr				
From: Winston Churchill Dr				
9045 High Ave	0.09	2600	G	2003
To: Oaklawn Blvd				
From: 116-9043 Courthouse Rd				
9047 Ashland St	0.06	NA		
To: SR 36 Oaklawn Blvd				
9047 Ashland St	0.10	5200	G	2003
To: SR 36-P Woodlawn St				
9047 Ashland St	0.10	7500	F	2003
To: 116-6 Cedar Level Rd Western St				
From: Western St				
9047 Ashland St	0.07	7000	G	2003
To: 116-2 Kippax Dr				
9047 Cedar Level Rd	0.89	8000	G	2003
To: 116-4 Jackson Farm Rd				
From: 116-4; Cedar Level Rd				
9047 Jackson Farm Rd	0.27	7100	G	2003
To: S Mesa Dr				
From: Jackson Farm Rd				
9047 S Mesa Dr	0.46	6400	G	2003
To: 116-9038 River Rd				
9047 N Mesa Dr	0.23	11000	G	2003
To: 166-9040 City Point Rd				
9047 N Mesa Dr	0.20	6700	G	2003
To: 116-9042 Broadway St				
From: Winston Churchill Dr				
9049 South 6Th Ave	0.52	10000	G	2003
To: City Point Rd				
9049 North 6Th Ave	0.15	8600	G	2003
To: West Broadway St				
From: West Broadway St				
9051 North 21St Ave	0.53	4500	G	2003
To: Riverside Ave				

Route	Length	AADT	QA	Year
<b>City of Hopewell</b>				
From: North 21St Ave				
9051 Riverside Ave	0.32	3800	G	2003
To: Randolph Rd				
From: Main St				
9074 City Point Rd	0.14	3900	G	2003
To: Randolph Rd				
From: SR 36 Oaklawn Blvd				
9076 Cousins Ave	0.17	4600	G	2003
To: Western St				
From: Cousins Ave				
9076 Western St	0.50	4500	G	2003
To: 116-6 Barkey St; 116-5 Western St				
From: 20Th Ave				
Atlantic St	790	G	2003	
To: 21St Ave				
From: Woodlawn St				
Barkley St	30	G	2003	
To: Western St				
From: Randolph Rd				
Broadway St	3100	G	2003	
To: Hopewell St				
From: Dead End				
Camron Road	20	F	2003	
To: Atwater Rd				
From: Arcadia Ave				
Cloverdale Ave	150	G	2003	
To: Delrose Dr				
From: Sibyl St				
Courthouse Rd	440	G	2003	
To: Caroline Ave				
From: Peterson Mill Rd				
Davidson Ave	70	G	2003	
To: Glendale St				
From: 20Th Ave				
Day St	40	G	2003	
To: 16Th Ave				
From: Cloverdale Ave				
Dellrose Drive	290	F	2003	
To: Lincoln Sq				
From: Gilbert St				
Dinwiddie Avenue	740	F	2003	
To: Courthouse Rd				
From: Glendale St				
Fisher Avenue	100	F	2003	
To: Lee Ln				
From: Roanoke Ave				
Granby St	260	F	2003	
To: Sunnyside Ave				
From: 21St Ave				
Jackson St	250	G	2003	
To: 20Th Ave				
From: West Broadway St				
Marion Ave	360	G	2003	
To: Norton St				
From: Atlantic St				
Maryland Avenue	280	F	2003	
To: 15th Ave				



Virginia Department of Transportation  
 Mobility Management Division  
 2003  
 Annual Average Daily Traffic Volume Estimates By Section of Route  
 City of Hopewell

Route	Length	AADT	QA	Year
<b>City of Hopewell</b>				
From: Prince George Ave	Day St			
To: West Broadway St		<b>200</b>	<b>G</b>	2003
From: Riverside Avenue	Weston St			
To: Marks St		<b>40</b>	<b>F</b>	2003
From: Stewart Ave	Bassett St			
To: Jones St		<b>310</b>	<b>G</b>	2003
From: Sussex Drive	Dead End			
To: Westhill Rd		<b>220</b>	<b>F</b>	2003
From: Terminal Street	SR 156 Winston Churchill Dr			
To: Booker St		<b>1200</b>	<b>F</b>	2003
From: Wilmington Avenue	Heretick Ave			
To: North Ave		<b>250</b>	<b>F</b>	2003