

2003

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

Special Locality Report

115

City of Harrisonburg

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



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
 2003
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Harrisonburg

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: SCL Harrisonburg				
(11) Main St	0.91	13000	F	2003
To: I-81				
From: I-81				
(11) Main St	1.77	20000	F	2003
To: Pleasant Hill Rd				
From: Pleasant Hill Rd				
(11) S Main St	0.87	17000	F	2003
To: Port Republic Rd				
From: Port Republic Rd				
(11) S Main St	0.65	23000	F	2003
To: S Liberty St				
From: S Liberty St				
(11) Main St NB	0.47	7000	F	2003
To: Combined Traffic:		11000	F	
From: US 33				
(11) Main St NB	0.02	7000	N	2003
To: Combined Traffic:		11000	N	
From: US 33				
(11) Main St NB	0.03	7000	N	2003
To: Combined Traffic:		9700	N	
From: US 33 Par				
(11) Main St NB	0.34	7000	N	2003
To: Combined Traffic:		NA		
From: Kratzer Ave				
(11) N Main St	0.68	6800	F	2003
To: Charles St				
From: Charles St				
(11) N Main St	0.44	6700	F	2003
To: NCL Harrisonburg				
From: S Main St				
(11) Liberty St	0.70	4500	F	2003
To: Combined Traffic:		11000	F	
From: Rock St				
(11) Noll Dr	0.14	2800	F	2003
To: Combined Traffic:		9700	N	
From: Kratzer Ave				
From: WCL Harrisonburg				
(33) W Market Street	1.11	10000	F	2003
To: Waterman Dr				
From: Waterman Dr				
(33) W Market Street	0.61	11000	F	2003
To: SR 42 S High St				
From: SR 42 S High St				
(33) W Market Street	0.16	4400	F	2003
To: Bus US 33 Par				
From: US 11				
(33) (11) Main St NB	0.02	7000	N	2003
To: Combined Traffic:		11000	N	
From: US 11 Main St				
(33) E Market Street	0.11	6900	F	2003
To: Mason St				
From: Mason St				
(33) E Market Street	0.87	12000	F	2003
To: Vine St				
From: Vine St				
(33) E Market Street	0.61	23000	F	2003
To: I-81				
From: I-81				
(33) E Market Street	0.59	25000	F	2003
To: University Blvd				
From: University Blvd				
(33) E Market Street	1.07	16000	F	2003
To: ECL Harrisonburg				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: US 11				
(33) (11) Main St NB	0.03	7000	N	2003
To: Combined Traffic:		9700	N	
From: US 33				
From: SCL Harrisonburg				
(42) S High Street	0.13	16000	F	2003
To: Erickson Ave				
From: Erickson Ave				
(42) S High Street	1.27	19000	F	2003
To: Sunrise Ave				
From: Sunrise Ave				
(42) S High Street	0.40	20000	F	2003
To: Grace Ave				
From: Grace Ave				
(42) S High Street	0.55	19000	F	2003
To: Market St				
From: Market St				
(42) N High Street	0.27	18000	F	2003
To: Gay St				
From: Gay St				
(42) Virginia Ave	0.44	10000	F	2003
To: 5th St				
From: 5th St				
(42) Virginia Ave	0.60	9800	F	2003
To: Mt Clinton Pike				
From: Mt Clinton Pike				
(42) Virginia Ave	0.83	12000	F	2003
To: NCL Harrisonburg				
From: SCL Harrisonburg				
North (81)	0.50	22000	F	2003
To: Combined Traffic:		45000	F	
From: US 11				
North (81)	2.83	24000	A	2003
To: Combined Traffic:		48000	F	
From: 82- 659 Port Republic Road				
North (81)	1.51	24000	F	2003
To: Combined Traffic:		47000	F	
From: US 33				
North (81)	1.60	21000	F	2003
To: Combined Traffic:		45000	F	
From: NCL Harrisonburg				
From: SCL Harrisonburg				
South (81)	1.01	23000	F	2003
To: Combined Traffic:		45000	F	
From: US 11				
South (81)	2.63	24000	F	2003
To: Combined Traffic:		48000	F	
From: Port Republic Road 82-659				
South (81)	1.50	23000	F	2003
To: Combined Traffic:		47000	F	
From: US 33				
South (81)	1.30	25000	F	2003
To: Combined Traffic:		45000	F	
From: NCL Harrisonburg				
From: E Market St				
(1) Vine St	1.42	8600	F	2003
To: N Main St				

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 2003
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 City of Harrisonburg

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Paul St ③ Eastover Dr To: Reservoir St	0.44	2300	F	2003
From: 115-4115 N Liberty Street ④ E. Washington St To: N Main St	0.24	3600	F	2003
From: N Main St ④ E. Washington St To: Vine St	0.72	3500	F	2003
From: SR 42 ⑤ Acorn Dr To: Mt Clinton Pike	1.16	3500	F	2003
From: Mt Clinton Pike ⑥ Park Rd To: Shank Dr	0.58	2400	F	2003
From: Shank Dr ⑥ Park Rd To: Harmony Rd	0.34	1600	F	2003
From: Park Rd ⑦ Harmony Rd To: SR 42	0.23	1200	F	2003
From: WCL Harrisonburg ④100 Mosby Rd To: Mosby Ct	0.35	6400	F	2003
From: Mosby Ct ④100 Mosby Rd To: Main St	0.26	7700	F	2003
From: Pear St ④102 Pleasant Hill Rd To: US 11 S Main St	0.78	9700	F	2003
From: US 11 Pleasant Hill Rd ④102 Stone Spring Rd To: Ramblewood Rd	0.65	9700	F	2003
From: Ramblewood Rd ④102 Stone Spring Rd To: ECL Harrisonburg	0.53	9400	F	2003
From: Pleasant Hill Rd ④103 Central Ave To: Sharon St	0.14	1600	F	2003
From: Sharon St ④103 Central Ave To: Maryland Ave	0.91	990	F	2003
From: S High St ④104 South Ave To: S Main St	0.52	5700	F	2003
From: ECL Harrisonburg ④105 Port Republic Rd To: Turner Ashby Lane	0.71	6400	F	2003
From: Turner Ashby Lane ④105 Port Republic Rd To: I-81	0.62	18000	F	2003
From: I-81 ④105 Port Republic Rd To: S Main St	0.48	16000	F	2003
From: S Main St ④105 Maryland Ave To: Main St	0.44	8100	F	2003
From: Main St ④105 Maryland Ave To: High St	0.44	8100	F	2003
From: High St ④106 Cantrell Ave To: High St	0.57	11000	F	2003
From: High St ④106 Cantrell Ave To: Ott St	0.68	13000	F	2003
From: Ott St ④106 Cantrell Ave To: Reservoir St	0.18	9600	F	2003
From: Reservoir St ④106 Cantrell Ave To: E Market St	0.18	9600	F	2003

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: SCL Harrisonburg ④107 Reservoir St To: University Blvd	0.97	7300	F	2003
From: University Blvd ④107 Reservoir St To: Eastover Dr	0.57	16000	F	2003
From: Eastover Dr ④107 Reservoir St To: E Market St	0.89	9600	F	2003
From: E Market St ④107 Sterling St To: Gay St	0.13	1400	F	2003
From: Gay St ④107 Gay St To: Sterling St	0.45	2600	F	2003
From: Sterling St ④107 Gay St To: Mason St	0.33	4900	F	2003
From: Mason St ④107 Gay St To: N High St	0.11	3700	F	2003
From: N High St ④107 Gay St To: Chicago Ave	0.58	5900	F	2003
From: Chicago Ave ④107 Chicago Ave To: Gay St	0.58	5900	F	2003
From: Gay St ④107 Chicago Ave To: Waterman Dr	0.43	6300	F	2003
From: Waterman Dr ④107 Chicago Ave To: Waterman Ave	0.43	6300	F	2003
From: Waterman Ave ④107 Chicago Ave To: Mt Clinton Pike	0.43	6300	F	2003
From: Mt Clinton Pike ④108 Paul St To: Eastover Dr	0.64	1500	F	2003
From: Eastover Dr ④108 Paul St To: Mason St	0.14	840	F	2003
From: Mason St ④108 Paul St To: Main St	0.14	840	F	2003
From: Main St ④109 Grace St To: High St	0.27	3400	F	2003
From: High St ④109 Grace St To: Main St	0.14	5500	F	2003
From: Main St ④109 Grace St To: Mason St	0.14	5500	F	2003
From: Mason St ④109 Mason St To: Grace St	0.10	5900	F	2003
From: Grace St ④109 Mason St To: Cantrell Ave	0.20	4200	F	2003
From: Cantrell Ave ④109 Mason St To: Paul St	0.20	4200	F	2003
From: Paul St ④109 Mason St To: Market St	0.41	5100	F	2003
From: Market St ④109 Mason St To: Main St	0.44	6200	F	2003
From: Main St ④110 Wolfe St To: N High St	0.23	2600	F	2003
From: N High St ④110 Wolfe St To: N Main St	0.23	2600	F	2003
From: N Main St ④110 Wolfe St To: Old Furnace Rd	0.69	1200	F	2003
From: Old Furnace Rd ④110 Old Furnace Rd To: Wolfe St	0.29	3100	F	2003
From: Wolfe St ④110 Old Furnace Rd To: Vine St	0.29	3100	F	2003
From: Vine St ④110 Old Furnace Rd To: Vine St	0.29	3100	F	2003
From: Vine St ④110 Old Furnace Rd To: ECL Harrisonburg	0.91	2300	F	2003
From: ECL Harrisonburg ④113 Country Club Dr To: US 33 E	0.76	8300	F	2003
From: US 33 E ④113 Country Club Dr To: Linda Lane	0.76	8300	F	2003
From: Linda Lane ④113 Country Club Dr To: US 33	0.85	12000	F	2003

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Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Noll Dr				
4114 Kratzer Ave	0.12	2800	F	2003
To: N Liberty St				
From: Noll Dr				
4115 Liberty St	0.25	2900	F	2003
To: Kratzer Rd				
From: Kratzer Rd				
4115 Liberty St	0.32	5100	F	2003
To: Edom Rd				
From: Edom Rd				
4115 Liberty St	0.32	3600	F	2003
To: Charles St				
From: Charles St				
4115 Liberty St	0.80	3200	F	2003
To: NCL Harrisonburg				
From: S Main St				
4116 Pike Church Rd	0.14	1800	F	2003
To: WCL Harrisonburg				
From: Mosby Rd				
4117 Pear St	1.09	3000	F	2003
To: Pleasant Hill Rd				
From: WCL Harrisonburg				
4118 Erickson St	0.72	7400	F	2003
To: S High St				
From: SCL Harrisonburg				
4119 Garbers Church Rd	0.05	3200	F	2003
To: Erickson St				
From: Erickson Ave				
4119 Garbers Church Rd	1.48	2900	F	2003
To: US 33 Market St				
From: US 33 Market St				
4119 Switchboard Rd	0.20	1600	F	2003
To: NCL Harrisonburg, 82-910				
From: W Market St				
4120 Waterman Dr	0.84	4200	F	2003
To: Chicago Ave				
From: WCL Harrisonburg				
4121 Mt Clinton Pike	0.19	6200	F	2003
To: College Ave				
From: College Ave				
4121 Mt Clinton Pike	0.10	6400	F	2003
To: Chicago Ave				
From: Chicago Ave				
4121 Mt Clinton Pike	0.37	7200	F	2003
To: SR 42 Virginia Ave				
From: Virginia Ave				
4121 Mt Clinton Pike	1.29	7200	F	2003
To: N Main St				
From: Virginia Ave				
4122 Edom Rd	0.21	2500	F	2003
To: N Liberty St				
From: S High St				
4124 Bruce St	0.15	2100	F	2003
To: Liberty St				
From: Liberty St				
4124 Bruce St	0.22	1600	F	2003
To: Mason St				
From: Country Club Rd				
4125 Keezletown Rd	0.76	2000	F	2003
To: ECL Harrisonburg				
From: Pleasant Valley Rd				
4127 Greendale Rd	1.05	3100	F	2003
To: ECL Harrisonburg				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: SCL Harrisonburg				
4128 Pleasant Valley Rd	0.67	4800	F	2003
To: RTE 710 Greendale Rd				
From: Greendale Rd				
4128 Pleasant Valley Rd	0.73	6700	F	2003
To: S Main St				
From: Hartman Dr on North End				
2nd Street		290	F	2003
To: Willow St on South End				
From: Clay St				
Alleghany Ave		150	F	2003
To: Star Crest Dr				
From: Star Crest Dr				
Blue Ridge Rd		3900	F	2003
To: Country Club Dr				
From: Monument Ave				
Bluestone St		160	F	2003
To: Dead End				
From: Star Crest Dr				
Broad View Dr		450	F	2003
To: Sparrow Ct				
From: N. Mason St				
Campbell St		280	F	2003
To: Ott St				
From: Reservoir St				
Carlton St		6400	F	2003
To: Market St				
From: S. Dogwood Dr				
Cedar St		150	F	2003
To: West Ave				
From: N. Liberty St				
Charles St.		2100	F	2003
To: N Main St				
From: Country Club				
Clay St.		250	F	2003
To: Alleghany Ave				
From: Jefferson St				
Clinton St		260	F	2003
To: N Main St				
From: Orchard La				
Crawford St		1400	F	2003
To: Port Republic Rd				
From: Monument Ave				
Crawford St		1200	F	2003
To: Orchard La				
From: Hillandale Ave				
Dale Cir.		90	F	2003
To: Hillandale Ave				
From: N. Mason St				
E. Gay St.		4500	F	2003
To: N. Main St				
From: Maryland Ave				
Ellwood Dr		240	F	2003
To: New York Ave				
From: N. Dogwood Dr				
Green St		140	F	2003
To: Willow St				

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Route	Length	AADT	QA	Year
City of Harrisonburg				
From: W. Gay St				
Hartman Dr		200	F	2003
To: Second St				
From: S. Dogwood Dr				
Hilldale Ave		640	F	2003
To: S. High St				
From: Fairview Ave				
Hillcrest Dr		270	F	2003
To: Maplehurst Ave				
From: Monument Ave				
Hillside Ave		80	F	2003
To: Dead End				
From: Moore St				
Holly Hill Drive		200	F	2003
To: N Main St				
From: Valley St				
Monument Ave		1200	F	2003
To: Bluestone St				
From: Dead End				
Moore St		110	F	2003
To: Holly Hill Dr				
From: N. Main St				
Newman Ave		850	F	2003
To: Federal St				
From: South Ave				
S. Dogwood Dr.		1400	F	2003
To: Ridge Rd				
From: S. Dogwood Dr				
South Ave		910	F	2003
To: Sharps Dr				
From: N. Blue Ridge Rd				
Spottswood Dr		130	F	2003
To: N. Carlton St				
From: Blue Ridge Rd				
Star Crest Dr		370	F	2003
To: Alleghany Ave				
From: Wolfe St				
Statton Rd		48	F	2003
To: W Gay St				
From: Jefferson St				
Sutter St		210	F	2003
To: Dead End				
From: Fry Ave				
Valley St		210	F	2003
To: Monument Ave .				
From: S. Mason St				
W. View St		220	F	2003
To: Ott St				
From: Brook Ave				
W. Water St		420	F	2003
To: Academy St				
From: Grace St				
Walnut St		410	F	2003
To: Dead End				
From: W Gay St				
Willow St		990	F	2003
To: Second St				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Dead End				
Wilson Ave		110	F	2003
To: N Main St				