

2002

**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

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 Harrisonburg

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: SCL Harrisonburg				
(11) Main St	0.91	12000	G	2002
To: I-81				
From: I-81				
(11) Main St	1.77	19000	G	2002
To: Pleasant Hill Rd				
From: Pleasant Hill Rd				
(11) S Main St	0.87	17000	G	2002
To: Port Republic Rd				
From: Port Republic Rd				
(11) S Main St	0.65	22000	G	2002
To: S Liberty St				
From: S Liberty St				
(11) Main St NB	0.47	7100	G	2002
To: Combined Traffic:		13000	G	
From: US 33				
(11) Main St NB	0.02	7100	N	2002
To: Combined Traffic:		13000	N	
From: US 33				
(11) Main St NB	0.03	7100	N	2002
To: Combined Traffic:		10000	N	
From: US 33 Par				
(11) Main St NB	0.34	7100	N	2002
To: Combined Traffic:		0	N	
From: Kratzer Ave				
(11) N Main St	0.68	8200	G	2002
To: Charles St				
From: Charles St				
(11) N Main St	0.44	6900	G	2002
To: NCL Harrisonburg				
From: S Main St				
(11) Liberty St	0.70	6100	G	2002
To: Combined Traffic:		13000	G	
From: Rock St				
(11) Noll Dr	0.14	3300	G	2002
To: Combined Traffic:		10000	N	
From: Kratzer Ave				
From: WCL Harrisonburg				
(33) W Market Street	1.11	8600	G	2002
To: Waterman Dr				
From: Waterman Dr				
(33) W Market Street	0.61	9300	G	2002
To: SR 42 S High St				
From: SR 42 S High St				
(33) W Market Street	0.16	5000	G	2002
To: Bus US 33 Par				
From: US 11				
(33) (11) Main St NB	0.02	7100	N	2002
To: Combined Traffic:		13000	N	
From: US 11 Main St				
(33) E Market Street	0.11	6800	G	2002
To: Mason St				
From: Mason St				
(33) E Market Street	0.87	12000	G	2002
To: Vine St				
From: Vine St				
(33) E Market Street	0.61	17000	G	2002
To: I-81				
From: I-81				
(33) E Market Street	0.59	29000	G	2002
To: University Blvd				
From: University Blvd				
(33) E Market Street	1.07	20000	G	2002
To: ECL Harrisonburg				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: US 11				
(33) (11) Main St NB	0.03	7100	N	2002
To: Combined Traffic:		10000	N	
From: US 33				
From: SCL Harrisonburg				
(42) S High Street	0.13	18000	G	2002
To: Erickson Ave				
From: Erickson Ave				
(42) S High Street	1.27	18000	G	2002
To: Sunrise Ave				
From: Sunrise Ave				
(42) S High Street	0.40	21000	G	2002
To: Grace Ave				
From: Grace Ave				
(42) S High Street	0.55	18000	G	2002
To: Market St				
From: Market St				
(42) N High Street	0.27	16000	G	2002
To: Gay St				
From: Gay St				
(42) Virginia Ave	0.44	9800	G	2002
To: 5th St				
From: 5th St				
(42) Virginia Ave	0.60	11000	G	2002
To: Mt Clinton Pike				
From: Mt Clinton Pike				
(42) Virginia Ave	0.83	12000	G	2002
To: NCL Harrisonburg				
From: SCL Harrisonburg				
North (81)	0.50	23000	G	2002
To: Combined Traffic:		47000	G	
From: US 11				
North (81)	2.83	24000	A	2002
To: Combined Traffic:		47000	A	
From: 82- 659 Port Republic Road				
North (81)	1.51	25000	G	2002
To: Combined Traffic:		51000	G	
From: US 33				
North (81)	1.60	23000	G	2002
To: Combined Traffic:		46000	G	
From: NCL Harrisonburg				
From: SCL Harrisonburg				
South (81)	1.01	24000	G	2002
To: Combined Traffic:		47000	G	
From: US 11				
South (81)	2.63	24000	A	2002
To: Combined Traffic:		47000	A	
From: Port Republic Road 82-659				
South (81)	1.50	26000	G	2002
To: Combined Traffic:		51000	G	
From: US 33				
South (81)	1.30	23000	G	2002
To: Combined Traffic:		46000	G	
From: NCL Harrisonburg				
From: E Market St				
(1) Vine St	1.42	11000	G	2002
To: N Main St				

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

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Paul St				
③ Eastover Dr	0.44	1800	G	2002
To: Reservoir St				
From: 115-4115 N Liberty Street				
④ E. Washington St	0.24	NA		
To: N Main St				
From: N Main St				
④ E. Washington St	0.72	NA		
To: Vine St				
From: SR 42				
⑤ Acorn Dr	1.16	3100	G	2002
To: Mt Clinton Pike				
From: Mt Clinton Pike				
⑥ Park Rd	0.58	2100	G	2002
To: Shank Dr				
From: Shank Dr				
⑥ Park Rd	0.34	1300	G	2002
To: Harmony Rd				
From: Park Rd				
⑦ Harmony Rd	0.23	930	G	2002
To: SR 42				
From: WCL Harrisonburg				
④100 Mosby Rd	0.35	6600	G	2002
To: Mosby Ct				
From: Mosby Ct				
④100 Mosby Rd	0.26	7900	G	2002
To: Main St				
From: Pear St				
④102 Pleasant Hill Rd	0.78	8700	G	2002
To: US 11 S Main St				
From: US 11 Pleasant Hill Rd				
④102 Stone Spring Rd	0.65	9300	G	2002
To: Ramblewood Rd				
From: Ramblewood Rd				
④102 Stone Spring Rd	0.53	7400	G	2002
To: ECL Harrisonburg				
From: Pleasant Hill Rd				
④103 Central Ave	0.14	1700	G	2002
To: Sharon St				
From: Sharon St				
④103 Central Ave	0.91	1500	G	2002
To: Maryland Ave				
From: S High St				
④104 South Ave	0.52	5500	G	2002
To: S Main St				
From: ECL Harrisonburg				
④105 Port Republic Rd	0.71	6700	G	2002
To: Turner Ashby Lane				
From: Turner Ashby Lane				
④105 Port Republic Rd	0.69	22000	G	2002
To: James Madison University				
From: University Dr				
④105 Port Republic Rd	0.41	17000	G	2002
To: S Main St				
From: Main St				
④105 Maryland Ave	0.44	7400	G	2002
To: High St				
From: High St				
④106 Cantrell Ave	0.57	10000	G	2002
To: Ott St				
From: Ott St				
④106 Cantrell Ave	0.68	14000	G	2002
To: Reservoir St				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Reservoir St				
④106 Cantrell Ave	0.18	8900	G	2002
To: E Market St				
From: SCL Harrisonburg				
④107 Reservoir St	0.97	6100	G	2002
To: University Blvd				
From: University Blvd				
④107 Reservoir St	0.57	14000	G	2002
To: Eastover Dr				
From: Eastover Dr				
④107 Reservoir St	0.89	14000	G	2002
To: E Market St				
From: E Market St				
④107 Sterling St	0.13	1900	G	2002
To: Gay St				
From: Gay St				
④107 Gay St	0.45	2600	G	2002
To: Mason St				
From: Mason St				
④107 Gay St	0.33	4500	G	2002
To: N High St				
From: N High St				
④107 Gay St	0.11	3200	G	2002
To: Chicago Ave				
From: Chicago Ave				
④107 Chicago Ave	0.58	6000	G	2002
To: Waterman Dr				
From: Waterman Dr				
④107 Chicago Ave	0.43	6300	G	2002
To: Waterman Ave				
From: Waterman Ave				
④107 Chicago Ave	0.43	6300	G	2002
To: Mt Clinton Pike				
From: Eastover Dr				
④108 Paul St	0.64	1500	G	2002
To: Mason St				
From: Mason St				
④108 Paul St	0.14	740	G	2002
To: Main St				
From: High St				
④109 Grace St	0.27	4900	G	2002
To: Main St				
From: Main St				
④109 Grace St	0.14	4100	G	2002
To: Mason St				
From: Mason St				
④109 Mason St	0.10	6200	G	2002
To: Grace St				
From: Cantrell Ave				
④109 Mason St	0.20	4400	G	2002
To: Paul St				
From: Paul St				
④109 Mason St	0.41	6500	G	2002
To: Market St				
From: Market St				
④109 Mason St	0.44	7100	G	2002
To: Main St				
From: N High St				
④110 Wolfe St	0.23	2300	G	2002
To: N Main St				
From: N Main St				
④110 Wolfe St	0.69	800	G	2002
To: Old Furnace Rd				
From: Old Furnace Rd				
④110 Old Furnace Rd	0.29	2700	G	2002
To: Wolfe St				
From: Wolfe St				
④110 Old Furnace Rd	0.29	2700	G	2002
To: Vine St				
From: Vine St				
④110 Old Furnace Rd	0.91	2200	G	2002
To: ECL Harrisonburg				
From: US 33 E				
④113 Country Club Dr	0.76	9600	G	2002
To: Linda Lane				

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Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Linda Lane				
4113 Country Club Dr	0.85	11000	G	2002
To: US 33				
From: Noll Dr				
4114 Kratzer Ave	0.12	4200	G	2002
To: N Liberty St				
From: Noll Dr				
4115 Liberty St	0.25	2900	G	2002
To: Kratzer Rd				
From: Kratzer Rd				
4115 Liberty St	0.32	7900	G	2002
To: Edom Rd				
From: Edom Rd				
4115 Liberty St	0.32	3900	G	2002
To: Charles St				
From: Charles St				
4115 Liberty St	0.80	3600	G	2002
To: NCL Harrisonburg				
From: S Main St				
4116 Pike Church Rd	0.14	1600	G	2002
To: WCL Harrisonburg				
From: Mosby Rd				
4117 Pear St	1.09	2700	G	2002
To: Pleasant Hill Rd				
From: WCL Harrisonburg				
4118 Erickson St	0.72	6800	G	2002
To: S High St				
From: SCL Harrisonburg				
4119 Garbers Church Rd	0.05	2800	G	2002
To: Erickson St				
From: Erickson Ave				
4119 Garbers Church Rd	1.48	2300	G	2002
To: US 33 Market St				
From: US 33 Market St				
4119 Switchboard Rd	0.20	1600	G	2002
To: NCL Harrisonburg, 82-910				
From: W Market St				
4120 Waterman Dr	0.84	3800	G	2002
To: Chicago Ave				
From: WCL Harrisonburg				
4121 Mt Clinton Pike	0.19	5200	G	2002
To: College Ave				
From: College Ave				
4121 Mt Clinton Pike	0.10	6200	G	2002
To: Chicago Ave				
From: Chicago Ave				
4121 Mt Clinton Pike	0.37	7100	G	2002
To: SR 42 Virginia Ave				
From: Virginia Ave				
4121 Mt Clinton Pike	1.29	5500	G	2002
To: N Main St				
From: Virginia Ave				
4122 Edom Rd	0.21	3100	G	2002
To: N Liberty St				
From: S High St				
4124 Bruce St	0.15	2100	G	2002
To: Liberty St				
From: Liberty St				
4124 Bruce St	0.22	1500	G	2002
To: Mason St				
From: Country Club Rd				
4125 Keezletown Rd	0.76	2100	G	2002
To: ECL Harrisonburg				

Route	Length	AADT	QA	Year
City of Harrisonburg				
From: Pleasant Valley Rd				
4127 Greendale Rd	1.05	3100	G	2002
To: ECL Harrisonburg				
From: SCL Harrisonburg				
4128 Pleasant Valley Rd	0.67	3300	G	2002
To: RTE 710 Greendale Rd				
From: Greendale Rd				
4128 Pleasant Valley Rd	0.73	6500	G	2002
To: S Main St				
From: Hartman Dr on North End				
2nd St	240		G	2002
To: Willow St on South End				
From: Clay St				
Alleghany Ave	120		G	2002
To: Star Crest Dr				
From: Star Crest Dr				
Blue Ridge Rd	4600		G	2002
To: Country Club Dr				
From: Monument Ave				
Bluestone St	180		G	2002
To: Dead End				
From: Star Crest Dr				
Broad View Dr	610		G	2002
To: Sparrow Ct				
From: N. Mason St				
Campbell St	300		G	2002
To: Ott St				
From: Reservoir St				
Carlton St	5300		G	2002
To: Market St				
From: S. Dogwood Dr				
Cedar St	130		G	2002
To: West Ave				
From: N. Liberty St				
Charles St.	2600		G	2002
To: N Main St				
From: Country Club				
Clay St.	240		G	2002
To: Alleghany Ave				
From: Jefferson St				
Clinton St	400		G	2002
To: N Main St				
From: Orchard La				
Crawford St	1100		G	2002
To: Port Republic Rd				
From: Monument Ave				
Crawford St	700		G	2002
To: Orchard La				
From: Hillandale Ave				
Dale Cir.	40		G	2002
To: Hillandale Ave				
From: N. Mason St				
E. Gay St.	3900		G	2002
To: N. Main St				
From: Maryland Ave				
Ellwood Dr	190		G	2002
To: New York Ave				

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Route	Length	AADT	QA	Year
From: N. Dogwood Dr Green St To: WillowSt		190	G	2002
From: W. Gay St Hartman Dr To: Second St		240	G	2002
From: S. Dogwood Dr Hillandale Ave To: S. High St.		620	G	2002
From: Fairview Ave Hillcrest Dr To: Maplehurst Ave		290	G	2002
From: Monument Ave Hillside Ave To: Dead End		300	G	2002
From: Moore St Holly Hill Drive To: N Main St		220	G	2002
From: Valley St Monument Ave To: Bluestone St		890	G	2002
From: Dead End Moore St To: Holly Hill Dr		120	G	2002
From: N. Main St Newman Ave To: Federal St		1100	G	2002
From: South Ave S. Dogwood Dr. To: Ridge Rd		1500	G	2002
From: S. Dogwood Dr South Ave To: Sharps Dr		1000	G	2002
From: N. Blue Ridge Rd Spottwood Dr To: N. Carlton St		140	G	2002
From: Blue Ridge Rd Star Crest Dr To: Alleghany Ave		370	G	2002
From: Wolfe St Statton Rd To: W Gay St		40	G	2002
From: Jefferson St Sutter St To: Dead End		330	G	2002
From: Fry Ave Valley St To: Monument Ave .		200	G	2002
From: S. Mason St W. View St To: Ott St		240	G	2002
From: Brook Ave W. Water St To: Academy St		360	G	2002
From: Grace St Walnut St To: Dead End		270	G	2002

Route	Length	AADT	QA	Year
From: W Gay St Willow St To: Second St		1200	G	2002
From: Dead End Wilson Ave To: N Main St		50	G	2002