2003
Virginia Department of Transportation
Daily Traffic Volume Estimates

Special Locality Report
138

City of Winchester

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 Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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

Route	From / To	Length	AADT	QA	Year
City of Winchester					
7 Boscawen St	From: US 50, US 522 Par, Braddock St	0.18	3300	G	2003
	Combined Traffic:		11000	G	
	To: US 11 Cameron St				
7 11 Cameron St	From: Boscawen St	0.17	12000	G	2003
	Combined Traffic:		12000	G	
	To: Piccadilly St				
7 Piccaddilly St	From: US 11 Cameron St	0.18	11000	G	2003
	To: East Lane				
7 East Lane	From: Piccadilly St	0.02	10000	G	2003
	To: Fairfax Lane				
7 National Ave	From: Highland Ave	0.32	13000	G	2003
	To: 138-5213 Pleasant Valley Rd				
7 Berryville Ave	From:	0.79	17000	G	2003
	To: Ross St				
7 Berryville Ave	From:	0.16	30000	G	2003
	To: ECL Winchester; I-81				
7 P 522 P Braddock St	From: US 50 Boscawen St	0.17	NA		
	Combined Traffic:		NA		
	To: Piccadilly St				
7 P Piccadilly St	From: Braddock St	0.18	7300	G	2003
	Combined Traffic:		11000	G	
	To: SR 7 Cameron St				
11 Valley Ave	From: SCL Winchester	1.37	16000	G	2003
	To: Middle Rd				
11 Valley Ave	From:	0.12	23000	G	2003
	To: Weems Lane				
11 Valley Ave	From:	0.67	18000	G	2003
	To: Bellview Ave				
11 Valley Ave	From:	0.59	14000	G	2003
	To: US 11 Par Braddock St				
11 Valley Ave	From:	0.09	3200	G	2003
	Combined Traffic:		14000	G	
	To: Gerrard St				
11 Gerrard St	From: Valley Ave	0.10	15000	G	2003
	To: Cameron St				
11 Cameron St	From: US 50 Gerrard St	0.53	6000	G	2003
	Combined Traffic:		15000	G	
	To: Boscawen St				
11 Cameron St	From:	0.17	12000	G	2003
	Combined Traffic:		12000	G	
	To: Piccadilly St				
11 Cameron St	From:	0.83	4100	G	2003
	Combined Traffic:		9500	G	
	To: US 11 Par, Loudoun St				
11 Martinsburg Pike	From:	0.31	13000	G	2003
	To: NCL Winchester				

Route	From / To	Length	AADT	QA	Year
City of Winchester					
11 P Braddock St	From: US 11 Valley Ave	0.09	11000	G	2003
	Combined Traffic:		14000	G	
	To: Gerrard St				
11 P 50 Braddock St	From:	0.53	8600	G	2003
	Combined Traffic:		15000	G	
	To: Boscawen St				
11 P 522 P Braddock St	From:	0.17	NA		
	Combined Traffic:		NA		
	To: Piccadilly St				
11 P Braddock St	From:	0.36	3100	G	2003
	Combined Traffic:		7200	G	
	To: North Ave				
11 P North Ave	From: Braddock St	0.03	500	G	2003
	Combined Traffic:		NA		
	To: Loudoun St				
11 P Loudoun St	From: North Ave	0.30	4900	G	2003
	Combined Traffic:		9000	G	
	To: Wyck St				
11 P Loudoun St	From:	0.24	5400	G	2003
	Combined Traffic:		9500	G	
	To: US 11 Cameron St				
17 50 Millwood Ave	From: ECL Winchester	0.09	26000	G	2003
	To: I-81				
17 50 Jubal Early Drive	From: Maintenance Jurisdiction Change	0.05	26000	G	2003
	To: Jubal Early Dr				
17 50 Millwood Ave	From:	0.86	17000	G	2003
	To: US 11 Cameron St				
50 Amherst St	From: WCL Winchester	0.64	20000	G	2003
	To: Fox Dr				
50 Amherst St	From:	0.75	17000	G	2003
	To: Boscawen St				
50 Boscawen St	From: Amherst St	0.37	16000	G	2003
	To: Braddock St				
50 Braddock St	From: Boscawen St	0.53	8600	G	2003
	Combined Traffic:		15000	G	
	To: Gerrard St				
50 Gerrard St	From: Braddock St	0.07	11000	G	2003
	To: Valley Ave				
50 11 Gerrard St	From:	0.10	15000	G	2003
	To: US 11 Cameron St				
50 Millwood Ave	From: Cameron St	0.86	17000	G	2003
	To: Bus US 50				
50 Jubal Early Drive	From:	0.09	26000	G	2003
	To: I-81				
50 Millwood Ave	From:	0.09	26000	G	2003
	To: ECL Winchester				

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City of Winchester

Route	Length	AADT	QA	Year
City of Winchester				
From: Boscawen St				
50 522 Braddock St	0.17	**NA**		
	Combined Traffic:	**NA**		
To: Piccadilly St				
From: Braddock St				
50 7 Piccadilly St	0.18	**7300**	**G**	2003
	Combined Traffic:	**11000**	**G**	
To: Cameron St				
From: Piccadilly St				
50 11 Cameron St	0.17	**12000**	**G**	2003
	Combined Traffic:	**12000**	**G**	
To: Boscawen St				
From:				
50 11 Cameron St	0.53	**6000**	**G**	2003
	Combined Traffic:	**15000**	**G**	
To: US 50 Gerrard St				
North From: SCL Winchester				
81	0.07	**28000**	**A**	2003
	Combined Traffic:	**56000**	**A**	
To: NCL Winchester				
South From: SCL Winchester				
81	0.07	**28000**	**A**	2003
	Combined Traffic:	**56000**	**A**	
To: NCL Winchester				
From: ECL Winchester				
522 50 Millwood Ave	0.09	**26000**	**G**	2003
To: I-81				
From: Maintenance Jurisdiction Change				
522 50 Jubal Early Drive	0.05	**26000**	**G**	2003
To: Millwood Ave				
From: Jubal Early Dr				
522 50 Millwood Ave	0.86	**17000**	**G**	2003
To: Cameron St				
From: Millwood Ave				
522 11 Cameron St	0.53	**6000**	**G**	2003
	Combined Traffic:	**15000**	**G**	
To: Boscawen St				
From:				
522 11 Cameron St	0.17	**12000**	**G**	2003
	Combined Traffic:	**12000**	**G**	
To: SR 7 Piccadilly St				
From: US 11 Cameron St				
522 7 Piccadilly St	0.18	**7300**	**G**	2003
	Combined Traffic:	**11000**	**G**	
To: US 50, SR 7 Braddock St				
From:				
522 Piccadilly St	0.19	**5900**	**G**	2003
To: Fairmont Ave				
From: Piccadilly St				
522 Fairmont Ave	0.22	**6800**	**G**	2003
To: Commercial St				
From:				
522 Fairmont Ave	0.55	**12000**	**G**	2003
To: NCL Winchester				
From: US 522, US 11 Cameron St				
522 11 Gerrard St	0.10	**15000**	**G**	2003
To: US 11 Valley Ave				
From:				
522 50 Gerrard St	0.07	**11000**	**G**	2003
To: Braddock St				
From: Gerrard St				
522 50 Braddock St	0.53	**8600**	**G**	2003
	Combined Traffic:	**15000**	**G**	
To: US 50 Boscawen St				

Route	Length	AADT	QA	Year
City of Winchester				
From: US 50 Boscawen St				
522 Braddock St	0.17	**NA**		
	Combined Traffic:	**NA**		
To: US 522 Piccadilly St				
From: Pleasant Valley Rd				
1 Woodstock Ln	0.63	**1800**	**G**	2003
To: ECL Winchester				
From: Berryville Ave				
2 Fort Collier Drive	0.16	**7300**	**G**	2003
To: NCL Winchester				
From: Handley Blvd				
3 Washington St	0.64	**4400**	**G**	2003
To: Piccadilly St				
From: Braddock St				
4 Handley Blvd	0.08	**12000**	**G**	2003
To: Washington St				
From: Valley Ave				
5 Tevis Ave	0.21	**8300**	**G**	2003
To: Cedarmeade Ave				
From: Tevis St				
6 Cedarmeade Ave	0.55	**1600**	**G**	2003
To: Papermill Rd				
From: Handley Ave				
7 Jubal Early Dr	0.65	**5100**	**G**	2003
To: US 11 Valley Avenue				
From:				
7 Jubal Early Dr	1.13	**19000**	**G**	2003
To: US 50				
From: WCL Winchester				
5200 Cedar Creek Grade	0.52	**12000**	**G**	2003
To: Valley Ave				
From:				
5200 Weems Ln	0.50	**12000**	**F**	2003
To: Papermill Rd				
From: Valley Ave				
5201 Middle Rd	1.01	**4000**	**G**	2003
To: WCL Winchester				
From: US 50				
5203 Fox Dr	0.86	**3600**	**G**	2003
To: NCL Winchester				
From: US 11 Cameron St				
5204 Cork St	0.08	**9200**	**G**	2003
To: Kent St				
From:				
5204 Cork St	0.48	**11000**	**G**	2003
To: 138-5213 Pleasant Valley Rd				
From:				
5204 Senseny Rd	0.44	**11000**	**G**	2003
To: ECL Winchester				
From: Fairmont Ave				
5206 Commercial St	0.29	**4400**	**G**	2003
To: Cameron St				
From: SCL Winchester				
5207 Shawnee Dr	0.67	**5100**	**G**	2003
To: Papermill Rd				
From: SECL Winchester				
5209 Papermill Rd	0.86	**11000**	**G**	2003
To: Pleasant Valley Rd				
From:				
5209 Papermill Rd	0.64	**6000**	**F**	2003
To: Weems Ln				

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City of Winchester

Route	From / To	Length	AADT	QA	Year
City of Winchester					
(5209) Loudoun St	From: Weems Ln To: Commerce St	0.58	**14000**	**F**	2003
(5209) Loudoun St	From: Commerce St To: Gerrard St	0.57	**6700**	**G**	2003
(5213) Pleasant Valley Rd	From: Papermill Rd To: Jubal Early Drive	1.22	**20000**	**G**	2003
(5213) Pleasant Valley Rd	From: Jubal Early Drive To: Millwood Ave	0.36	**25000**	**G**	2003
(5213) Pleasant Valley Rd	From: Millwood Ave To: Cork St	0.91	**23000**	**G**	2003
(5213) Pleasant Valley Rd	From: Cork St To: Berryville Ave	0.36	**19000**	**G**	2003
(5221) Smithfield Ave	From: National Ave To: NCL Winchester	0.63	**2800**	**G**	2003
2nd Street	From: Cedarmeade Ave To: Summit Ave		**240**	**G**	2003
Amherst St	From: Boscawen St To: Braddock St		**4300**	**G**	2003
Battaile Dr	From: Shawnee Dr To: SCL Winchester		**1200**	**G**	2003
Beachcroft Rd	From: Wentworth Dr To: Oakwood Ct		**200**	**G**	2003
Bellview Ave	From: Valley Ave To: Lewis St		**1200**	**G**	2003
Bond St	From: Loudoun St To: Cameron St		**260**	**G**	2003
Braddock St	From: Jackson Ave To: Locust Ave		**700**	**G**	2003
Branner Ave	From: Ridge Ave To: Isaac St		**380**	**G**	2003
Butler Ave	From: Green St To: Beau St		**240**	**G**	2003
Caroline St	From: Old Fort Rd To: Marion St		**250**	**G**	2003
Commerce St	From: Whitlock Ave To: Southwerk St		**600**	**G**	2003
Dunlap St	From: Bruce St To: WCL Winchester		**220**	**G**	2003
E. Southwerk St	From: S. Loudoun St To: S. Cameron St		**2000**	**G**	2003
City of Winchester					
Elm St	From: Frederick Ave To: Woodland Ave		**3900**	**G**	2003
Euclid Ave	From: Grove St To: Woodstock Ln		**490**	**G**	2003
Glaize Ave	From: S.Loudoun St To: Dead End		**260**	**G**	2003
Handley St	From: Whitlock Ave To: Sheridan St		**640**	**G**	2003
Imperial St	From: Papermill Rd To: Superior Ave		**200**	**G**	2003
Jackson Ave	From: Braddock St To: Pennsylvania Ave		**430**	**G**	2003
Kent St	From: Beau St To: WCL Winchester		**890**	**G**	2003
Kent St	From: Boscawen St To: Philpot St		**6400**	**G**	2003
Leicester St	From: Parkway Ave To: Shawnee Ave		**500**	**G**	2003
Marion St	From: Branner Ave To: Caroline St		**330**	**G**	2003
Massanutten Terrace	From: Hockman Ave To: Middle Rd		**580**	**G**	2003
Orchard Ave	From: Elm St To: ECL Winchester		**230**	**G**	2003
Parkway Ave	From: Pall Mall St To: Leicester St		**1000**	**G**	2003
Pennsylvania Ave	From: Richards To: Jackson Ave		**590**	**G**	2003
Peyton St	From: Fairmont Ave To: Braddock St		**540**	**G**	2003
Pleasant Valley Rd	From: Dead End To: Cedarmeade Ave		**420**	**G**	2003
Purcell Ave	From: Cork St To: Grove St		**2100**	**G**	2003
S.Kent St	From: Millwood Ave To: Southwerk St		**1200**	**G**	2003
Saratoga Dr	From: Dulles Circle To: Lake Dr		**440**	**G**	2003

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City of Winchester				
From: Leicester St Shenandoah Ave To: Cork St		**800**	**G**	2003
From: Handley St South Werk St To: Ivy St		**480**	**G**	2003
From: Wolfe St Stewart St To: Boscawen St		**9200**	**G**	2003
From: 2Nd St Summit Ave To: 1St Street		**160**	**G**	2003
From: Jefferson St Tennyson Ave To: Leicester St		**520**	**G**	2003
From: Boscawen St Washington St To: Amherst St		**4100**	**G**	2003
From: Applecroft Rd Wentworth Dr To: Beachcroft Rd		**1300**	**G**	2003
From: Wood Ave Whitter Ave To: Ridge Ave		**750**	**G**	2003
From: Whitter Ave Wood Ave To: Lanny Dr		**730**	**G**	2003
From: Pine St Woodland Ave To: Elm St		**1100**	**G**	2003
From: Loudoun St Wyck St To: Braddock St		**3700**	**G**	2003