

2002

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

where available

Special Locality Report

141

City of Bedford

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

- 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
 2002
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Bedford

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Bedford																
43 South Street	0.96	1800	G	97%	1%	From: SCL Bedford				C	0.108	F	0.58	1900	G	2002
43 South Street	0.14	1100	G	97%	0%	To: SR 43 P Talbot St				C	0.111	F	0.669	1200	G	2002
Combined Traffic:		1800	G	97%	1%	1%	0%	1%	0%	F	0.104	F	0.637	1900	G	
43 South Street	0.06	700	G	97%	1%	From: Washington St				F	0.13	F		730	G	2002
Combined Traffic:		1700	G	97%	1%	1%	0%	1%	0%	F	0.118	F	0.767	1800	G	
43 Bus 460 E Main St	0.08	6600	G	96%	1%	From: Main St				F	0.095	F	0.588	6900	G	2002
43 221 N Bridge St	0.16	6000	G	95%	1%	To: RT 460 BUS & RT 221				F	0.090	F	0.63	6300	G	2002
43 221 N Bridge St	0.11	9200	G	95%	1%	From: BEDFORD AVE				C	0.087	F	0.569	9600	G	2002
43 Peaks Street	0.62	3400	G	96%	1%	To: RT 221				F	0.098	F	0.502	3500	G	2002
43 Peaks Street	0.94	3000	G	96%	1%	From: N Bridge St				F	0.096	F	0.558	3100	G	2002
43 Talbot Street	0.05	690	G	97%	1%	To: Laurel St				F	0.091	F	0.575	720	G	2002
Combined Traffic:		1800	G	97%	1%	1%	0%	1%	0%	F	NA		1900	G		
43 Otey Street	0.14	1000	G	97%	1%	From: Otey Street				C	0.111	F	0.589	1100	G	2002
Combined Traffic:		1700	G	97%	1%	1%	0%	1%	0%	F	NA		1800	G		
122 Burks Hill Rd	0.54	9500	G	92%	1%	To: Bus US 460 E Main St				C	0.09	F	0.625	9900	G	2002
122 460	0.94	18000	G	87%	0%	From: SCL Bedford				F	0.078	F	0.535	18000	G	2002
122 Bus 460 E Main St	0.20	6300	N	96%	1%	To: US 460				N	0.092	N	0.597	6600	N	2002
122 Independence Blvd	1.02	9500	G	92%	1%	From: E MAIN ST				F	0.089	F	0.575	9900	G	2002
122 Independence Blvd	0.29	9600	G	92%	1%	To: Orange St				C	0.094	F	0.562	10000	G	2002
122 Independence Blvd	0.50	8400	G	92%	1%	From: Dawn Dr				F	0.090	F	0.519	8700	G	2002
122 Longwood Ave	0.65	5200	G	92%	2%	To: Longwood Ave				C	0.119	F	0.519	5400	G	2002
122 Crenshaw St	0.96	5100	G	95%	1%	From: Independence Ave				C	0.096	F	0.558	5400	G	2002
122 221 W Main St	0.19	7000	G	97%	1%	To: NCL Bedford				F	0.092	F	0.519	7300	G	2002
122 221 N Bridge St	0.16	6000	G	95%	1%	From: W Main St				F	0.090	F	0.63	6300	G	2002
To: N BRIDGE ST																
To: E MAIN ST																
To: BEDFORD 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 Bedford																	
Bus 122 221	N Bridge St	0.11	9200	G	95%	1%	2%	1%	1%	0%	C	0.087	F	0.569	9600	G	2002
From: BEDFORD AVE																	
To: PEAKS ST																	
Bus 122 221	Longwood Ave	0.71	8400	G	95%	1%	2%	1%	1%	0%	F	0.096	F	0.540	8800	G	2002
From: OAKWOOD ST																	
To: FOREST RD																	
Bus 122 221	Longwood Ave	0.47	10000	G	96%	1%	2%	1%	1%	0%	C	0.093	F	0.508	11000	G	2002
From: WCL Bedford																	
To: US 460 OLD TNPK RD																	
221		0.67	20000	G	87%	0%	2%	1%	9%	0%	F	0.077	F	0.603	21000	G	2002
From: OAKCREST ST																	
To: 4th St																	
221		0.33	8100	N	97%	1%	1%	1%	1%	0%	N	0.088	N	0.552	8400	N	2002
From: Oakcrest St																	
To: 4th St																	
221	W Main St	0.07	6000	G	97%	1%	1%	1%	1%	0%	F	0.096	F	0.501	6300	G	2002
From: Crenshaw St																	
To: N Bridge St																	
221	W Main St	0.19	7000	G	97%	1%	1%	1%	1%	0%	F	0.092	F	0.519	7300	G	2002
From: E Main St																	
To: N Bridge St																	
221	N Bridge St	0.16	6000	G	95%	1%	2%	1%	1%	0%	F	0.090	F	0.63	6300	G	2002
From: Bedford Ave																	
To: Peaks St																	
221	Longwood Ave	0.71	8400	G	95%	1%	2%	1%	1%	0%	F	0.096	F	0.540	8800	G	2002
From: Oakwood St																	
To: Forest Road																	
221	Longwood Ave	0.47	10000	G	96%	1%	2%	1%	1%	0%	C	0.093	F	0.508	11000	G	2002
From: Longwood Ave																	
To: ECL Bedford																	
221	Forest Rd	0.68	5800	G	93%	1%	3%	0%	2%	0%	C	0.095	F	0.512	6000	G	2002
From: WCL Bedford																	
To: US 221																	
460		0.18	14000	G	87%	0%	2%	1%	9%	0%	F	0.076	F	0.556	14000	G	2002
From: ECL Bedford																	
To: WCL Bedford																	
460		0.90	15000	G	87%	0%	2%	1%	9%	0%	F	0.078	F	0.557	15000	G	2002
From: ECL Bedford																	
To: SCL Bedford																	
460		0.94	18000	G	87%	0%	2%	1%	9%	0%	F	0.078	F	0.535	18000	G	2002
From: SR 122, US 221, Bus US 460																	
To: ECL Bedford																	
Bus 460 221		0.33	8100	N	97%	1%	1%	1%	1%	0%	N	0.088	N	0.552	8400	N	2002
From: US 460 Old TnPk Rd																	
To: Oakcrest St																	
Bus 460 221		0.68	8100	G	97%	1%	1%	1%	1%	0%	C	0.088	F	0.552	8400	G	2002
From: 4th St																	
To: W Main St																	
Bus 460 221	W Main St	0.07	6000	G	97%	1%	1%	1%	1%	0%	F	0.096	F	0.501	6300	G	2002
From: Crenshaw St																	
To: W Main St																	
Bus 460 221	W Main St	0.19	7000	G	97%	1%	1%	1%	1%	0%	F	0.092	F	0.519	7300	G	2002
From: N Bridge St																	

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						2Axle	3+Axle	1Trail	2Trail								
City of Bedford																	
Bus 460	E Main St	0.08	6600	G	96%	1%	2%	0%	1%	0%	F	0.095	F	0.588	6900	G	2002
					From:	N Bridge St											
					To:	South St											
Bus 460	E Main St	0.27	7400	G	96%	1%	2%	0%	1%	0%	F	0.096	F	0.548	7700	G	2002
					From:	Orange St											
Bus 460	E Main St	0.71	6300	G	96%	1%	2%	0%	1%	0%	C	0.092	F	0.597	6600	G	2002
					From:	US 221, SR 122											
Bus 460	E Main St	0.20	6300	N	96%	1%	2%	0%	1%	0%	N	0.092	N	0.597	6600	N	2002
					To:	US 460											
1	4Th Street	0.20	NA								NA			NA			
					From:	Bedford Ave											
					To:	College Ave											
1	College Street	0.14	NA								NA			NA			
					From:	Bedford Ave											
					To:	SR 43											
2	Dawn Dr	0.63	1100	G	93%	0%	3%	1%	3%	0%	C	0.141	F	0.536	1100	G	2002
					From:	Park St											
					To:	Independence Blvd											
3	Orange St	0.39	880	G	89%	1%	8%	0%	1%	0%	C	0.116	F	0.517	920	G	2002
					From:	Grove St											
3	Orange St	1.47	1000	G	89%	1%	8%	0%	1%	0%	F	0.124	F	0.62	1100	G	2002
					From:	Gold Rd											
					To:	ECL Bedford											
4	Otey St	0.27	520	G	93%	3%	2%	1%	1%	0%	F	0.121	F	0.526	540	G	2002
					From:	South St											
					To:	Talbot St											
5	Bridge St	0.07	1900	G	93%	3%	2%	1%	1%	0%	C	0.100	F	0.526	2000	G	2002
					From:	Washington St											
					To:	W Main St											
6	Whitfield Rd	0.61	2200	G	97%	0%	1%	0%	1%	0%	C	0.097	F	0.595	2300	G	2002
					From:	SR 43 Peaks St											
					To:	Oakwood St											
3050	Washington St	0.21	1900	G	98%	1%	1%	0%	1%	0%	C	0.111	F	0.713	2000	G	2002
					From:	W Main St											
					To:	Crenshaw St											
3050	Washington St	0.25	2400	G	98%	1%	1%	0%	1%	0%	F	0.103	F	0.604	2500	G	2002
					From:	South St											
					To:	SR 43 South St											
3050	Washington St	0.07	1400	G	98%	1%	1%	0%	1%	0%	F	0.117	F	0.645	1400	G	2002
					From:	SR 43 South St											
					To:	Otey St											
3051	Link Rd	0.58	2900	G	95%	1%	2%	1%	1%	0%	C	0.089	F	0.555	3000	G	2002
					From:	SCL Bedford											
					To:	E Main St											
3052	4th St	0.15	7200	G	97%	1%	1%	1%	0%	0%	C	0.101	F	0.58	7500	G	2002
					From:	W Main St											
					To:	Bedford Ave											
3052	Bedford Ave	0.10	5500	G	97%	1%	1%	1%	0%	0%	C	0.098	F	0.559	5800	G	2002
					From:	4Th St											
					To:	2Nd St											
3052	Bedford Ave	0.20	4700	G	97%	1%	1%	1%	0%	0%	F	0.105	F	0.645	4900	G	2002
					From:	2Nd St											
					To:	N Bridge St											
3052	Jackson St	0.24	1000	G	92%	0%	4%	2%	1%	0%	C	0.150	F	0.669	1100	G	2002
					From:	Grove St											
					To:	Jackson St											
3052	Grove St	0.28	1800	G	93%	1%	2%	2%	2%	0%	C	0.121	F	0.596	1900	G	2002
					From:	Jackson St											
					To:	Orange St											

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						2Axle	3+Axle	1Trail	2Trail							
City of Bedford																
(3052) Orange St	0.08	1600	G	93%	1%	2%	2%	2%	0%	F	0.108	F	0.574	1700	G	2002
				From:	Grove St											
				To:	E Main St											
(3054) McGhee St	0.54	470	G	95%	2%	2%	0%	0%	0%	C	0.11	F	0.565	490	G	2002
				From:	Orange St											
				To:	Forest Rd											
(3059) Park Street	0.30	NA									NA		NA			
				From:	141-2 Gap Terminus Greenwood St											
				To:	US 221											
(3061) Oakwood St	0.59	4200	G	96%	0%	2%	1%	1%	0%	C	0.089	F	0.507	4300	G	2002
				From:	Longwood Ave											
				To:	Whitfield Rd											
Baltimore Ave		320	G								0.123	F	0.535	330	G	2002
				From:	Oak St											
				To:	Park St											
Pinecrest Ave		520	G								0.093	F	0.543	540	G	2002
				From:	Mayberry Dr											
				To:	Morgan St											
Shady Knoll Ave		380	G								0.111	F	0.560	400	G	2002
				From:	Longwood Ave											
				To:	Dawn Dr											