

2005

**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
Traffic Engineering Division**

In Cooperation With

**U.S. Department of Transportation
Federal Highway Administration**

Virginia Department of Transportation
Traffic Engineering 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 of the VDOT Traffic Engineering Division 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 Traffic Engineering Division 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
-  Frontage Road (F precedes frontage route number)
-  Secondary Route

Special Routes

- Bus
 Bus - Business Route
-  Bypass - 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
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2005
Annual Average Daily Traffic Volume Estimates By Section of Route
City of Bedford

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: SCL Bedford															
43 South Street	City of Bedford	0.96	1700	G	97%	1%	1%	0%	0%	0%	C	0.092	F	0.526	1800	G
	To: SR 43 P Talbot St															
43 South Street	City of Bedford	0.14	950	G	99%	0%	0%	0%	0%	0%	C	0.098	F	0.624	1000	G
	From: Washington St															
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		1700	G	98%	1%	0%	0%	0%	0%	F	0.094	F	0.647	1900	G
	To: Washington St															
43 South Street	City of Bedford	0.06	680	G	97%	1%	1%	0%	0%	0%	F	0.116	F		740	G
	From: Main St															
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		1700	G	97%	1%	1%	0%	0%	0%	F	0.094	F	0.883	1800	G
43 Bus 460 E Main St	City of Bedford	0.08	8000	G	99%	0%	1%	0%	0%	0%	F	0.097	F	0.615	8800	G
	From: RT 460 BUS & RT 221															
43 Bus 221 122 N Bridge St	City of Bedford	0.16	6800	G	98%	0%	1%	0%	0%	0%	F	0.091	F	0.555	7400	G
	From: BEDFORD AVE															
43 Bus 221 122 N Bridge St	City of Bedford	0.11	9200	G	98%	0%	1%	0%	0%	0%	C	0.085	F	0.531	10000	G
	To: RT 221															
	From: N Bridge St															
43 Peaks Street	City of Bedford	0.62	2800	G	98%	1%	0%	0%	0%	0%	F	0.113	F	0.565	3000	G
	From: Laurel St															
43 Peaks Street	City of Bedford	0.94	2300	G	98%	1%	0%	0%	0%	0%	C	0.090	F	0.624	2600	G
	To: NCL Bedford															
	From: South Street															
43 Talbot Street	City of Bedford	0.05	770	G	97%	2%	1%	0%	0%	0%	F	0.107	F	0.599	840	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		1700	G	98%	1%	0%	0%	0%	0%	F	0.094	F	0.647	1900	G
	To: Otey Street															
	From: Talbot St															
43 Otey Street	City of Bedford	0.14	1000	G	97%	2%	1%	0%	0%	0%	C	0.097	F	0.661	1100	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		1700	G	97%	1%	1%	0%	0%	0%	F	0.094	F	0.883	1800	G
	To: Bus US 460 E Main St															
	From: SCL Bedford															
122 Burks Hill Rd	City of Bedford	0.54	9400	G	95%	1%	1%	1%	2%	0%	C	0.092	F	0.664	10000	G
	To: US 460															
	From: SCL Bedford															
122 460	City of Bedford (Maint: 09)	0.94	18000	G	87%	1%	1%	2%	9%	0%	F	0.078	F	0.564	19000	G
	To: US 460															
	From: Bus US 460 E Main St															
122 Independence Blvd	City of Bedford	1.02	9200	G	95%	1%	1%	1%	3%	0%	F	0.084	F	0.572	10000	G
	To: Orange St															
122 Independence Blvd	City of Bedford	0.29	9000	G	95%	1%	1%	1%	3%	0%	C	0.086	F	0.585	9900	G
	To: Dawn Dr															
122 Independence Blvd	City of Bedford	0.50	8000	G	95%	1%	1%	1%	3%	0%	F	0.085	F	0.501	8800	G
	To: Longwood Ave															

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City of Bedford

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
122 Longwood Ave	From: Independence Ave City of Bedford To: NCL Bedford	0.65	4700	G	95%	2%	1%	0%	3%	0%	C	0.121	F	0.520	5200	G
Bus 122 Crenshaw St	From: US 460 City of Bedford To: W Main St	0.96	4800	G	98%	1%	1%	0%	0%	0%	C	0.091	F	0.519	5200	G
Bus 122 221 460 W Main St	From: N Bridge St City of Bedford To: E Main St	0.19	6500	G	98%	1%	1%	0%	1%	0%	F	0.085	F	0.55	7100	G
Bus 122 221 43 N Bridge St	From: Bedford Ave City of Bedford To: Peaks St	0.16	6800	G	98%	0%	1%	0%	0%	0%	F	0.091	F	0.555	7400	G
Bus 122 221 43 N Bridge St	From: Peaks St City of Bedford To: Oakwood St	0.11	9200	G	98%	0%	1%	0%	0%	0%	C	0.085	F	0.531	10000	G
Bus 122 221 Longwood Ave	From: Oakwood St City of Bedford To: Forest Rd	0.71	8300	G	98%	0%	1%	0%	0%	0%	F	0.085	F	0.515	9100	G
Bus 122 221 Longwood Ave	From: Forest Rd City of Bedford To: WCL Bedford	0.47	10000	G	98%	1%	1%	0%	0%	0%	C	0.09	F	0.526	11000	G
221 460	From: WCL Bedford City of Bedford (Maint: 09) To: US 460 OLD TNPK RD	0.67	19000	G	87%	1%	1%	2%	9%	0%	F	0.081	F	0.533	20000	G
Bus 221 460	From: US 460 OLD TNPK RD City of Bedford (Maint: 09) To: Oakcrest St	0.33	7900	N	98%	1%	1%	0%	1%	0%	N	0.088	N	0.538	8700	N
Bus 221 460	From: Oakcrest St City of Bedford To: 4th St	0.68	7900	G	98%	1%	1%	0%	1%	0%	C	0.088	F	0.538	8700	G
Bus 221 460 W Main St	From: 4th St City of Bedford To: Crenshaw St	0.07	4800	G	98%	1%	1%	0%	1%	0%	F	0.105	F	0.549	5200	G
Bus 221 460 122 W Main St	From: Crenshaw St City of Bedford To: N Bridge St	0.19	6500	G	98%	1%	1%	0%	1%	0%	F	0.085	F	0.55	7100	G
Bus 221 43 122 N Bridge St	From: N Bridge St City of Bedford To: E Main St	0.16	6800	G	98%	0%	1%	0%	0%	0%	F	0.091	F	0.555	7400	G
Bus 221 43 122 N Bridge St	From: E Main St City of Bedford To: Bedford Ave	0.16	6800	G	98%	0%	1%	0%	0%	0%	F	0.091	F	0.555	7400	G
Bus 221 43 122 N Bridge St	From: Bedford Ave City of Bedford To: Peaks St	0.11	9200	G	98%	0%	1%	0%	0%	0%	C	0.085	F	0.531	10000	G
Bus 221 122 Longwood Ave	From: Peaks St City of Bedford To: Oakwood St	0.71	8300	G	98%	0%	1%	0%	0%	0%	F	0.085	F	0.515	9100	G

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							2Axle	3+Axle	1Trail	2Trail						
Bus 221 122 Longwood Ave	From: Oakwood St City of Bedford	0.47	10000	G	98%	1%	1%	0%	0%	0%	C	0.09	F	0.526	11000	G
	To: Forest Road															
221 Forest Rd	From: Longwood Ave City of Bedford	0.68	6000	G	96%	1%	1%	0%	2%	0%	C	0.094	F	0.545	6500	G
	To: ECL Bedford															
460 221	From: WCL Bedford City of Bedford (Maint: 09)	0.67	19000	G	87%	1%	1%	2%	9%	0%	F	0.081	F	0.533	20000	G
	To: US 221															
460	From: US 221 City of Bedford (Maint: 09)	0.18	15000	G	87%	1%	1%	2%	9%	0%	F	0.077	F	0.535	15000	G
	To: ECL Bedford															
460	From: WCL Bedford City of Bedford (Maint: 09)	0.90	15000	G	87%	1%	1%	2%	9%	0%	F	0.077	F	0.535	15000	G
	To: ECL Bedford															
460 122	From: SCL Bedford City of Bedford (Maint: 09)	0.94	18000	G	87%	1%	1%	2%	9%	0%	F	0.078	F	0.564	19000	G
	To: SR 122, US 221, Bus US 460															
460	From: SR 122, US 221, Bus US 460 City of Bedford (Maint: 09)	0.28	19000	G	87%	1%	1%	2%	9%	0%	F	0.078	F	0.549	19000	G
	To: ECL Bedford															
Bus 460 221	From: US 460 Old Tnpk Rd City of Bedford (Maint: 09)	0.33	7900	N	98%	1%	1%	0%	1%	0%	N	0.088	N	0.538	8700	N
	To: Oakcrest St															
Bus 460 221	From: Oakcrest St City of Bedford	0.68	7900	G	98%	1%	1%	0%	1%	0%	C	0.088	F	0.538	8700	G
	To: 4th St															
Bus 460 221 W Main St	From: 4th St City of Bedford	0.07	4800	G	98%	1%	1%	0%	1%	0%	F	0.105	F	0.549	5200	G
	To: Crenshaw St															
Bus 460 221 122 W Main St	From: Crenshaw St City of Bedford	0.19	6500	G	98%	1%	1%	0%	1%	0%	F	0.085	F	0.55	7100	G
	To: N Bridge St															
Bus 460 43 E Main St	From: N Bridge St City of Bedford	0.08	8000	G	99%	0%	1%	0%	0%	0%	F	0.097	F	0.615	8800	G
	To: South St															
Bus 460 E Main St	From: South St City of Bedford	0.27	7800	G	99%	0%	1%	0%	0%	0%	F	0.092	F	0.501	8600	G
	To: Orange St															
Bus 460 E Main St	From: Orange St City of Bedford	0.91	7200	G	99%	0%	1%	0%	0%	0%	C	0.093	F	0.557	7800	G
	To: US 460, SR 122															

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Bedford																
(F609) Dinwiddie Dr	0.09	NA									NA			NA		
(1) 4th Street	0.20	10	G	99%	1%	0%	0%	0%	0%	F	0.364	F	0.625	10	G	2005
(1) College Street	0.14	1100	G	99%	1%	0%	0%	0%	0%	F	0.177	F	0.675	1200	G	2005
(2) Dawn Dr	0.63	1300	G	93%	1%	1%	1%	4%	0%	C	0.146	F	0.702	1500	G	2005
(3) Orange St	0.39	790	G	97%	1%	1%	0%	0%	0%	C	0.115	F	0.739	870	G	2005
(3) Orange St	1.47	880	G	97%	1%	1%	0%	0%	0%	F	0.105	F	0.504	960	G	2005
(4) Ridge St/Otey St	0.27	460	G	96%	2%	1%	0%	0%	0%	F	0.104	F	0.533	510	G	2005
(5) Bridge St	0.07	1700	G	96%	2%	1%	0%	0%	0%	C	0.106	F	0.569	1900	G	2005
(6) Whitfield Rd	0.61	2000	G	99%	0%	0%	0%	0%	0%	C	0.084	F	0.678	2100	G	2005
(3050) Washington St	0.21	1700	G	99%	0%	1%	0%	0%	0%	C	0.091	F	0.589	1800	G	2005
(3050) Washington St	0.25	1900	G	99%	0%	1%	0%	0%	0%	F	0.097	F	0.522	2100	G	2005
(3050) Washington St	0.07	1300	G	99%	0%	1%	0%	0%	0%	F	0.098	F	0.638	1500	G	2005
(3051) Link Rd	0.58	3500	G	97%	0%	0%	1%	1%	0%	C	0.085	F	0.629	3900	G	2005
(3052) 4th Street	0.15	5800	G	99%	1%	0%	0%	0%	0%	C	0.094	F	0.515	6400	G	2005
(3052) Bedford Ave	0.10	4500	G	97%	1%	1%	0%	1%	0%	C	0.089	F	0.586	4900	G	2005
(3052) Bedford Ave	0.20	3900	G	97%	1%	1%	0%	1%	0%	F	0.094	F	0.602	4300	G	2005
(3052) Jackson St	0.24	880	G	98%	0%	1%	1%	0%	0%	C	0.126	F	0.515	970	G	2005
(3052) Grove St	0.28	1300	G	98%	0%	1%	0%	1%	0%	C	0.115	F	0.503	1400	G	2005
(3052) Orange St	0.08	1400	G	98%	0%	1%	0%	1%	0%	F	0.105	F	0.566	1500	G	2005
(3054) McGhee St	0.54	450	G	97%	2%	0%	0%	0%	0%	C	0.094	F	0.519	490	G	2005

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
City of Bedford																
						From: 141-2 Gap Terminus Greenwood St										
(3059) Park Street	0.30	880	G	93%	1%	1%	1%	4%	0%	F	0.135	F	0.775	960	G	2005
						To: US 221										
						From: Longwood Ave										
(3061) Oakwood St	0.59	3300	G	99%	0%	0%	0%	0%	0%	C	0.084	F	0.524	3700	G	2005
						To: Whitfield Rd										
						From: Oak St										
Baltimore Ave		240	G								0.19	F	0.547	260	G	2005
						To: Park St										
						From: Mayberry Dr										
Pinecrest Ave		610	G								0.092	F	0.531	660	G	2005
						To: Morgan St										
						From: Longwood Ave										
Shady Knoll Ave		500	G								0.103	F	0.588	550	G	2005
						To: Dawn Dr										