### 2002

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

where available

# Special Locality Report 159

Town of Luray

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 30<sup>th</sup> 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
- 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
81 Interstate Route Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.

(29) US Route

7 Virginia State Route

(600) 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 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.

# Virginia Department of Transportation Mobility Management Division 2002 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Luray

						I own of Lura	ıy								
Route	Length	AADT	QA	4Tire	Bus	Tru 2Axle 3+Axle		 2Trail	QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
Town of Luray				r				1							
~~~	0.36	11000	G	90%	1%	WCL Luray 3% 2%	4%	0%	F	0.08	F	0.515	11000	G	2002
211)	0.30	11000	G	90%	1 70		470	070	г	0.06	г	0.515	11000	G	2002
~~	0.00	5200		From:	40/	Bus US 211	20/	00/		0.004		0.500	F400		2002
211	0.69	5300	G	92% To:	1%	2% 1% ECL Luray	3%	0%	С	0.084	F	0.526	5400	G	2002
				From:		WCL Luray									
211	0.56	5300	N	92%	1%	2% 1%	3%	0%	Ν	0.084	Ν	0.526	5400	N	2002
<del>-</del> ;:)				To:		US 340									
211)	0.38	4300	G	95%	0%	2% 1%	2%	0%	С	0.093	F	0.524	4300	G	2002
211)				To:		ECL Luray									
~~				From:		WCL Luray									
211}	0.28	4000	N	95 <u>%</u>	0%	2% 1%	2%	0%	Ν	0.089	N	0.510	4000	N	2002
<del>~</del>				To:		ECL Luray									
Bus				From:		US 211									
211 West Main St	0.15	6400	G	97%	0%	2% 0%	0%	0%	F	0.092	F	0.624	6600	G	2002
<del>~</del>				To:		Leaksville Rd									
Bus West Main St	0.05	0000	_	From:	00/		00/	00/	^	0.00-	_	0.500	0000	0	0000
211 West Main St	0.85	8000	G	97%	0%	2% 0%	0%	0%	С	0.087	F	0.528	8200	G	2002
Bus				From:		Lee St									
211 West Main St	0.33	11000	G	97%	0%	2% 0%	0%	0%	F	0.091	F	0.627	11000	G	2002
211)35(	0.00		-	- F	J /0		3,0		•	0.001	•	0.021	. 1000	_	_502
Bus				From:		US 340									
211 East Main St	0.98	15000	G	98%	0%	1% 0%	1%	0%	F	0.077	F	0.514	16000	G	2002
~				To		Reservoir Ave									
Bus			_	From:										_	
211 Lee Hwy	0.14	12000	G	98%	0%	1% 0%	1%	0%	С	0.072	F	0.510	13000	G	2002
D				To:		Collins Rd									
Bus 211 Lee Hwy	0.72	5000	G	97%	0%	2% 0%	1%	0%	F	0.088	F	0.517	5100	G	2002
211)20011111	0.72	0000	Ū	To:	070	ECL Luray	170	070	•	0.000	•	0.017	0100	Ü	2002
				From:											
~~~~~~	0.36	11000	G	90%	1%	WCL Luray 3% 2%	4%	0%	F	0.08	F	0.515	11000	G	2002
340 (211)	0.50	11000	G	90 /6	1 /0	3/0 2/0	4 /0	0 70		0.00	•	0.515	11000	G	2002
~~~~				From:		BUS US 211									
340 }{ 211 }	0.69	5300	G	92%	1%	2% 1%	3%	0%	С	0.084	F	0.526	5400	G	2002
~~				To: From:		CL Luray		-							
340 (211)	0.56	5300	N	92%	1%	2% 1%	3%	0%	Ν	0.084	Ν	0.526	5400	N	2002
				To:		S RT 211									
<b>~</b> √				From:		US 211									
N Broad St	0.30	6400	G	93%	1%	3% 2%	1%	0%	С	0.084	F	0.582	6500	G	2002
<del>-</del>				To:		NCL Luray									
Bus				From:		SCL Luray									
340 Virginia Ave	0.09	6600	G	96%	0%	2% 0%	1%	0%	F	0.085	F	0.602	6700	G	2002
<del>_</del>				To: From:		Linden Ave		F							
Bus Virginia Avo	0.52	6000	G	96%	0%	2% 0%	1%	0%	С	0.084	F	0.6	6100	G	2002
Virginia Ave	0.02	5000	G	<i>3</i> 0 %	0 /0		1 /0	U /0	C	0.004	1,	0.0	0100	J	2002
Bus				From:		Bus US 211		}							
340 Broad St	0.54	4400	G	95%	0%	3% 1%	1%	0%	С	0.089	F	0.548	4500	G	2002
				To:		US 211									
				From:		0.69 MS of NCL L	urav								
1 Collins Rd	0.69	2200	G	98%	0%	1% 0%	0%	0%	F	0.089	F	0.503	2200	G	2002
			-	To:		NCL Luray; 69-7									
				From:		Bus US 211 Main		<u>'</u>							
2 Lee St	0.18	1600	G	98%	0%	1% 0%	0%	0%	С	0.099	F	0.65	1600	G	2002
2 Lee St	0.10	1000	3	70 70 To:	0 /0	Mechanic St	0 /0	0 /0	0	0.000	1	0.00	1000	J	2002
				From:											
3 Hawksbill St	0.40	1200	G		Λ0/	US 211 Main S 1% 0%		00/	_	0.005	_	0.516	1200	C	2000
3 Hawksbill St	0.49	1300	G	98%	0%		0%	0%	F	0.085	F	0.516	1300	G	2002
				To:		US 211 Bypass	i								

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				· · · · · · · ·										
Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Tr			Peak Hour	QK	Dir Factor	AAWDT	QW	Year
own of Luray														
<u> </u>			_	From:		Bus US 340		_		_		4000		
4 Linden Ave	0.19	1000	G	98%	0%	1% 0% 0%	% 0%	F	0.085	F	0.538	1000	G	2002
				To:		Hawksbill Hts Dr								
				From: 1	59-4 Ga	p Terminus Big Spring StPl	RING ST.							
5)	0.04	NA						i	NA			NA		
				To:		Hawksbill Heights Dr								
_				From:		Lee Hwy								
6 Collins Rd	0.26	2100	G	98%	0%	1% 0% 0%	% 0%	F	0.089	F	0.565	2100	G	2002
				To:	(	0.26 MN of Lee Hwy; 159-	1							
				From:		WCL Luray								
954) Mechanic St	0.42	2500	G	96%	0%	2% 1% 19	% 0%	F	0.095	F	0.527	2500	G	2002
				To		Lee St								
954) Mechanic St	0.38	2300	G	From: 96%	0%	2% 1% 1%	% 0%	С	0.097	F	0.527	2400	G	2002
Mechanic St	0.50	2300	•	To:	0 70	Bus US 340	70 070	ı	0.031	•	0.521	2400	O	2002
				-										
0	0.00	4000	_	From:	00/	SCL Luray	00/		0.00	_	0.540	4000	0	0000
982 Court St	0.99	1900	G	97%	0%	2% 0% 0%	% 0%	С	0.08	F	0.513	1900	G	2002
				To:		West Main St								
$\widehat{}$				From:		SCL Luray								
986) Antioch Rd	0.09	1400	G	97%	0%	2% 0% 0%	% 0%	F	0.087	F	0.664	1500	G	2002
				To:		Fairview Rd								
				From:		SCL Luray								
1987) Leaksville Rd	0.09	2100	G	97%	0%	2% 0% 0%	% 0%	F	0.091	F	0.565	2100	G	2002
				To:		Bus US 11								
				From:		ECL Luray								
Fairview Rd	0.48	1200	G	98%	0%	1% 0% 0%	% 0%	С	0.084	F	0.578	1200	G	2002
1000				To			1	l						
Coinday Dd	0.88	3100	G	From: 98%	0%	Antioch Rd 1% 0% 09	% 0%	_	0.08	F	0.639	3200		2002
989 Fairview Rd	0.00	3100	G	90 70 To:	0%		/0 U/0	F	0.06	Г	0.039	3200	G	2002
				From:		Reservoir Ave Fairview Rd								
Reservoir Ave	0.44	3400	G	98%	0%	1% 0% 0%	% 0%	С	0.08	F	0.636	3400	G	2002
1909			_	To:		Main St US 211 Bus				-			_	
				From:										
Wallace Rd	0.52	1900	G	96%	0%	Bus US 211 1% 0% 29	% 0%	С	0.086	F	0.56	1900	G	2002
(1991) Wallace Rd	0.52	1900	G	90 70 To:	070	1% 0% 29 NCL Luray	/0 U70	ı	0.000	Г	0.56	1900	G	2002
Managa		040	_	From:		Lee Hwy BUS 211			0.404	_	0.500	0.40	_	0000
Marye Lane		310	G	. —				i	0.101	F	0.533	310	G	2002
				To:		Park Ave								
				From:		Third Street								
Seventh St		110	G					_	0.118	F		110	G	2002
				To:		Fourth Street								
				From:		Dedford Ave								
Terrace Lane		90	G						0.092	F	0.529	90	G	2002
		-	-	To:		Wilson St					-			

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