### 2002

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

where available

# Special Locality Report 107

City of Covington

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 City of Covington

						City of	Coving	on								
Route	Length	AADT	QA	4Tire	Bus	2Axle	Tru 3+Axle		 2Trail	QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
City of Covington																
18 Indian Valley	0.37	2900	F	98%	1%	1%	Covington 0%	0%	0%	F	0.099	F	0.694	3100	F	2002
18 S Carpenter Dr	0.44	4700	F	From: 98%	1%	1%	zer Ridge 0%	0%	0%	С	0.094	F	0.639	5000	F	2002
				From:			lon Street ordon Stre	et								-
S Carpenter Dr	0.31	6000	F	98% To:	1%	1%	0% nont Drive	0%	0%	F	0.091	F	0.64	6400	F	2002
(18) Carpenter Drive	1.20	4200	F	From: 94%	1%		t Road Ex		0%	С	0.087	F	0.563	4400	F	2002
				To:		US 220	Madison	St								
~~				From:	201		Covingto		20/						_	
N Monroe Avenue	0.09	4700	F	98%	0%	1%	0%	0%	0%	F	0.088	F	0.648	5000	F	2002
60 N Monroe Avenue	0.14	4900	F	From: 98%	0%	SR 154 W	V Riversid	le St 0%	0%	F	0.097	F	0.509	5200	F	2002
<u> </u>				To- From:		W Loc	cust Stree	t	1							
60 S Monroe Avenue	0.43	6100	F	98%	0%	1%	0%	0%	0%	С	0.092	F	0.539	6400	F	2002
60 S Monroe Avenue	0.40	6600	F	From: 98%	0%	1%	ak Street 0%	0%	0%	F	0.090	F	0.54	7000	F	2002
60 S Monroe Avenue	0.40	0000	•	To:	070	US 220 S			070	'	0.000	•	0.54	7000	ı	2002
~~~				From:		US 220 S										
60 E Madison Avenue	0.12	14000	F	98%	0%	1%	0%	0%	0%	F	0.081	F	0.525	15000	F	2002
60 East Madison Street	0.26	15000	F	93%	1%	1%	hland Ave	4%	0%	С	0.091	F	0.5	16000	F	2002
00)				To:			Carpenter									
60 E Madison Street	0.46	13000	F	92%	1%	1%	1%	5%	0%	С	0.092	F	0.506	14000	F	2002
00) =	00		-	To:	.,,		Covingtor		0,0		0.002	•	0.000		•	
East				From:			Covingto									
64)	0.21	4900	F	72%	1%	2%	1%	23%	1%	F	0.076	F		4600	F	2002
	ned Traffic:	11000	F	72%	1%	2%	1%	24%	1%	F	0.077	F		10000	F	
F				To: From:		S	R 154		1							
East	1.19	7500	F	72%	1%	2%	1%	23%	1%	F	0.079	F		7000	F	2002
Gombii	ned Traffic:	15000	F	72%	1%	2%	1%	24%	1%	F	0.079	F		14000	F	2002
				To:	.,.		Covingtor			-					-	
West				From:		WCL	Covingto	1								
64)	0.28	6200	F	72%	1%	2%	1%	24%	1%	F	0.086	F		5900	F	2002
	ned Traffic:	11000	F	72%	1%	2%	1%	24%	1%	F	0.077	F		10000	F	
West				To: From:		S	R 154		-							
64 Combi	1.08	7200	F	72%	1%	2%	1%	24%	1%	F	0.084	F		6800	F	2002
Combi	ned Traffic:	15000	F	72%	1%	2%	1%	24%	1%	F	NA			14000	F	
				To:		ECL (	Covingtor	1								
				From:		I-64 (	Covington									
154 <i>)</i>	0.75	8400	F	97%	0%	1%	1%	0%	0%	F	0.098	F	0.579	8900	F	2002
<u> </u>				To: From:		Chest	tnut Street		-							
154 Craig Ave	0.56	4000	F	99%	0%	0%	0%	0%	0%	С	0.105	F	0.548	4300	F	2002
				To: From:			ust Street ton Avenu	16								
154 E Riverside St	0.28	3400	F	94%	0%	1%	4%	1%	0%	С	0.117	F	0.594	3600	F	2002
$\stackrel{\smile}{=}$				To: From:		Monro	oe Avenue		}							
154 E Riverside St	0.24	5800	F	89%	0%	1%	2%	7%	0%	С	0.096	F	0.613	6200	F	2002
Foot District Co. 1	0.00	4500	_	From:	00/		ine Avenu				0.404	_	0.500	4000	_	0000
154 East Hickory Street	0.09	1500	F	89% To:	0%	1%	2% any Avent	7%	0%	F	0.104	F	0.588	1600	F	2002
						Anegna	any Avent	ıc								

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

						Oity or ooving									
Route	Length	AADT	QA	4Tire	Bus	Tro			- QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
City of Covington				E											
220 60 E Madison Street	0.46	13000	F	92%	1%	ECL Covingtor	5%	0%	С	0.092	F	0.506	14000	F	2002
220 60 E Madison Street	0.10	10000	•	To:	170	SR 18 Carpenter				0.002	•	0.000	11000		2002
220 60 East Madison Str	0.26	15000	F	93%	1%	1% 1%	4%	0%	С	0.091	F	0.5	16000	F	2002
220 (00)				To:		S Highland Aven									
220 60 E Madison Avenu	0.12	14000	F	From: 98%	0%	1% 0%	0%	0%	F	0.081	F	0.525	15000	F	2002
220 00				To-		S Monroe Aven									
N Alleghany Ave	0.93	10000	F	96%	1%	1% 1%	1%	0%	F	0.08	F	0.567	11000	F	2002
				To		E Locust Stree	f	l							
N Alleghany Ave	0.62	10000	F	96%	1%	1% 1%	1%	0%	F	0.083	F	0.542	11000	F	2002
<del></del>				To: From:		N Magazine Aver	nue								
N Alleghany Ave	0.66	6800	F	96%	1%	1% 1%	1%	0%	С	0.093	F	0.593	7200	F	2002
~				To:		NCL Covington	n								
				From:		SR 18			С			0.695	610	F	
S Pitzer Ridge	0.37	580	F	99%	0%	1% 0%	0%	0%		0.094	F				2002
				To:		SCL Covingtor									
W Edgemont Drive	0.67	3400	F	98%	1%	S Carpenter Di	0%	0%	С	0.093	F	0.645	3600	F	2002
W Edgemont Drive	0.07	3400	-	70 /0	1 /0	Rayon Drive	0 /6	0 /6	C	0.093		0.043	3000		2002
				From:		W Edgemont Dri									
S Rayon Drive	0.21	3400	F	97%	1%	1% 1%	1%	0%	С	0.092	F	0.563	3600	F	2002
				To: From:		W Jackson Stree S Rayon Drive									
605) W Jackson Street	0.43	4200	F	97%	0%	1% 1%	0%	0%	С	0.092	F	0.552	4400	F	2002
				To		S Willis Avenu									
S Durrant Road	0.45	4800	F	98%	0%	1% 0%	1%	0%	С	0.088	F	0.58	5000	F	2002
				To:		I-64									
				From:		Cypress St									
Beverly Avenue		220	F							0.099	F		220	F	2002
				To:		Cedar St									
				From:		Pocahontas Aven	iue								
Cedar Street		540	F	To:		Greenbrier Avenue				0.119	F		540	F	2002
				From:											
Dollyann Drive		740	F	rioni.		E Madison Stre	et			0.089	F		740	F	2002
Bonyann Birro			•	To:		S Pond Avenue	9			0.000	•		7 10	•	2001
				From:		E Scotland Driv									
E Fairlawn Drive		120	F							0.117	F		120	F	2002
				To:		S Carlton Drive	e								
				From:		S Powhatan Aver	nue								
E Gordon Street		220	F	т		0.11.4				0.171	F		220	F	2002
				10.		Smith Avenue									
E Gray Street		220	F	From:		S Mound Avenu	ie			0.132	E		220	F	2005
L Gray Street		220	-	To:		S Pond Avenue	ond Avenue		l	0.132	1-		220		2002
				From:	S Ohio Dr										
E Michigan Street		230	F			5 GHO DI				0.084	F		230	F	2002
				To		S Greenway Dri	ve								
				From:		S Carlton Drive	e						<u> </u>		
E Scotland Road		50	F							0.167	F		50	F	2002
				To:		E Fairlawn Driv	ve								
			_	From:		S Greenway Dri	ve				_			_	
Forest Avenue		50	F	Te:		D 15 1				0.158	F		50	F	2002
				10.		Dead End									

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

						,										
Route	Length	AADT	04	4Tiro	Bus		Truck			QC	Peak	QK	Dir		OW	
		AADI	QA	4Tire	bus	2Axle	3+Axle	1Trail	2Trail	QC	Hour	QN	Factor	AAWDT	QVV	Year
N Lexington				From:		Wl	Riverside V	V								
		2000	F								0.103	F		2000	F	200
				To:		Cho	estnut Stree	et								
N Marion Street				From:		WI	ocust Stre	et				F		520	F	2002
		520	F							0.107	0.107					
				10:			wthorne St		J							
			_	From:		E.	Willow St				0.444	F	0.546	120	F	200
N. Rockbridge Ave.		120	F	To:		Г	C 1 C		1	0.1	0.141					
				From:			Cedar St.									
Pocahontas Avenue		450	_	From:		С	edar Street				0.440	F		450	_	200
		450	F	To:		Mo	Allister Stre	pat	i		0.143	Г		450	F	200
				From:												
S Carlton Drive		170	F	rioin.		E So	cotland Roa	ad			0.094	F		170	F	200
		170	•	To-		E Fa	irlawn Dri	ve	1		0.054	'		170	Į.	
				From:			chigan Str		i					470		
S Greenway Drive	470	470	F	<u> </u>		12 191	cingan sur				0.092	F			F	200
o o.ooa, 2o				To:		E Penr	sylvania S	treet								
		170	F	From:		Car	penter Driv	ve .	1					170	F	
S Trout Street											0.145	F				200
				To:		EC.	L Covingto	n								
	norne Street			From:		N M	aple Aven	ue							F	2002
W Hawthorne Street		1800	F								0.098	F		1800		
				To:		N C	ourt Avenu	ie								
	Drive 530			From:		SI	Ourant Roa	d			0.111	F		530	F	200
W Riverview Drive		530	F													
				To-		S Co	nrad Aven	ue								
				From:		Е. Г	Detroit Stre	et								
Woodlawn Avenue		20	F								0.164	F	0.571	20	F	200
				To:		E. M	ichigan Str	eet								

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