2014

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

where available

Special Locality Report 275

Town of Orange

Information in this report is included in Report

68

(Orange County)

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.

1 Trail 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 K Factor 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 Design Hour Factor (K 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:

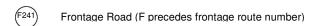
- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

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	



(600)	Secondary Route
(OUU)	Secondary house

Virginia State Route

Special Routes

Bus - Business Route Bypas - Bypass Route Truck - Truck Route ALT - Alternate Route Wye - Wye Route connector		
	Bypas - Bypass Route Truck - Truck Route ALT - Alternate Route	Bypas - Bypass Route Truck - Truck Route ALT - Alternate Route

- 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 Traffic Engineering Division 2014

Annual Average Daily Traffic Volume Estimates By Section of Route Town of Orange

					_		Tru	-Truck			K		Dir		-014/
Route	Jurisdiction	Length AADT	Length AADT QA	4 4Tire	Bus	2Axle	3+Axle	1Trail	2Trail	QC	Factor	QK	Factor	AAWDT	QW
~~~	From:	SCL Orange													
15 James Madison Hwy	Town of Orange	1.13 <b>12000</b>	F	93%	1%	1%	1%	4%	0%	С	0.091	F	0.610	13000	F
<u> </u>	To: From:	Old Gordonsville R	Road												
(15) Caroline St	Town of Orange	0.28 <b>15000</b>	F	94%	1%	1%	1%	4%	0%	С	0.090	F	0.580	15000	F
<u>~</u>	To- From:	SR 20 S, Berryhill	Rd											AAWDT 10 13000 11 13000 12 13000 13 15000 14 13000 15 14000 16 4800 17 9900 18 13000 19 12000 19 12000 19 12000 19 12000 19 12000	
(15) (20) Caroline St	Town of Orange	0.17 <b>12000</b>	F	92%	1%	1%	1%	5%	0%	F	0.091	F	0.518	13000	F
$\smile$	To:	SR 20 N; S Madison					e 3+Axle 1Trail 2Trail								
C Madiana Ct	Taura of Organia	SR 20 Caroline Str		050/	10/		00/	00/	00/	0	0.000	Octor         QK         Factor         AAW           191         F         0.610         1300           190         F         0.580         1500           191         F         0.518         1300           189         F         0.519         890           186         F         0.503         1600           188         F         0.519         1400           196         F         0.546         480           199         F         0.508         450           191         F         0.518         1300           186         F         0.677         990           181         F         0.619         1200           11         F         0.502         420           194         F         0.525         430	0000	_	
15 S Madison St	Town of Orange	0.24 <b>8600</b>	F	95%	1%	2%	0%	3%	0%	C	0.089	г	0.519	8900	F
~~~	T _C . From:	Main Street												13000 15000 13000 8900 16000 14000 4800 4500 13000 9900 12000 4200 4300	
15 Madison St	Town of Orange	0.61 15000	F	97%	0%	1%	0%	2%	0%	С	0.086	F	0.503	16000	F
<u> </u>	T _C	Lafayette Street	t			<u> </u>									
15 James Madison Hwy	Town of Orange	1.10 14000	F	96%	0%	1%	0%	2%	0%	С	0.088	F	0.519	14000	F
	To:	68-721 NCL Oran	nge												
	From:	WCL Orange													
20) W Main St	Town of Orange	0.47 4700	F	98%	0%	1%	0%	1%	0%	С	0.096	F	0.546	4800	F
	To	Bus SR 20													
20 Caroline St	Town of Orange	0.15 4400	F	97%	1%	10/-	Nº/-	10/-	O°/-	F	n nga	F	0.508	AAWDT actor AAWDT .610 13000 .580 15000 .518 13000 .519 8900 .503 16000 .519 14000 .546 4800 .508 4500 .518 13000 .677 9900 .619 12000 .502 4200 .525 4300	F
20) Garonne St	Town of Change	US 15 N, S Madison Street; C			1 /0		2Axle 3+Axle 1Trail 2Trail QC Factor QK Factor	0.500	4300	'					
	From:	W US 15	Caronn	c Bucci											
20) (15) Caroline St	Town of Orange	0.17 12000	F	92%	1%	1%	1%	5%	0%	F	0.091	F	0.518	13000	F
	To:	E RT 15													
	From:	US 15 S, Caroline S													
(20) Berry Hill Rd	Town of Orange	0.66 9600	F	96%	1%	1%	0%	2%	0%	F	0.086	F	0.677	9900	F
<u> </u>	To. From:	68-612 Monrovia	Rd			\neg \vdash									
20 Berry Hill Rd	Town of Orange	0.08 12000	F	96%	1%	1%	0%	2%	0%	F	0.081	F	0.619	12000	F
	To:	ECL Orange													
Bus	From:	SR 20; W Main S	St												
20 Main St	Town of Orange	0.14 4000	F	97%	1%	2%	0%	0%	0%	С	0.1	F	0.502	4200	F
\smile	To: From:	US 15 Madison St; S Ma	adison	St											
Bus 20 Main St	Town of Orange	0.10 4200	F	99%	0%	1%	0%	0%	0%	F	0.094	F	0.525	4300	F
	To:	May Fray Ave; Byr											-		
Bus	From:	Main St													
20 Byrd St	Town of Orange	0.47 5200	F	99%	0%	1%	0%	0%	0%	С	0.092	F	0.5	5300	F
\smile	То:	SR 20 Berry Hill l	Rd												

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Virginia Department of Transportation Traffic Engineering Division 2014 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Orange

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Town	ΩŤ	()ra	nae

Route	Length	AADT	QA	4Tire	Bus		Tru			QC	K	QK	Dir	AAWDT	OW	Year
riouto	Longin	, , , ,	٠,٠		Duo	2Axle	3+Axle	1Trail	2Trail	u.	Factor	Q, (Factor	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	٠	. oai
Town of Orange		From				CD 20	D 10:				1					
(842) Main Street E	0.66	2200	F	98%	0%	1%	Byrd Stree	0%	0%	С	0.087	F	0.595	2200	F	2014
842 Wall Street L	0.00	2200		30 /6	0 /6		14 Selma R		0 /6	U	0.007	'	0.595	2200	'	2014
		From					ma Road	.u								
(842) Rapidan Rd	0.18	2100	F	98%	0%	1%	0%	0%	0%	F	0.087	F	0.51	2200	F	2014
		To				Box	xley Lane				<u> </u>					
(842) Main St	0.28	1600	F	92%	1%	1%	6%	1%	0%	F	0.088	F	0.554	1700	F	2014
\bigcirc		To			6	8-615, N	EW ECL C	range								
		From				SR 20 Cc	nstitution l	Road								
844) Selma Rd	0.35	2000	F	99%	0%	1%	0%	0%	0%	F	0.100	F	0.555	2100	F	2014
		To From				RT 615	Main Stree	et E								
(844) Red Hill Rd	1.05	260	F	99%	0%	1%	0%	0%	0%	С	0.123	F	0.618	270	F	2014
\bigcirc		To				D	ead End									
		From				WCL C	range 68-6	533								
(845) Spicers Mill Rd	1.16	4400	F	99%	0%	1%	0%	0%	0%	С	0.085	F	0.510	4500	F	2014
		To				US 15 N	Madison Ro	oad								
		From				68-647	SCL Oran	ge								
(846) Old Gordodsville Rd	0.35	2000	F	99%	0%	0%	0%	0%	0%	F	0.095	F	0.585	2100	F	2014
		To				Woo	odcrest Dr									
		From				Wood	lcrest Drive	e								
(846) Old Gordonsville Rd	0.72	2200	F	99%	0%	0%	0%	0%	0%	С	0.087	F	0.571	2300	F	2014
<u> </u>		To			U	JS 15 Jam	es Madisor	n Hwy								
		From				Blue	Ridge Dr									
Piedmont St		250	G								NA			250	G	2014
		To				Ma	son Street									
		From				WC	L Orange				Ī					
Porterfield Dr		390	F								0.133	F	0.529	400	F	2014
		To				Monte	vista Aven	ue								

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