

2013
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

109

City of Emporia

Information in this report is included in Report

40

(Greensville 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.

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 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
- 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
Wye - Wye 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
 Traffic Engineering Division
 2013
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Emporia

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
	From: WCL Emporia															
58 West Atlantic St	City of Emporia (Maint: 40)	0.41	12000	G	81%	1%	1%	1%	15%	1%	F	0.073	F	0.558	12000	G
	To: Purdy Rd															
58 West Atlantic St	City of Emporia (Maint: 40)	0.13	20000	G	81%	1%	1%	1%	15%	1%	F	0.07	F	0.557	19000	G
	To: I-95															
58	City of Emporia (Maint: 40)	0.92	15000	G	74%	1%	1%	1%	22%	1%	C	0.082	F	0.558	14000	G
	To: US 301 Main St															
58	City of Emporia (Maint: 40)	0.64	13000	G	70%	1%	1%	1%	26%	1%	C	0.075	F	0.579	12000	G
	To: Reese St															
58	City of Emporia (Maint: 40)	0.49	15000	G	82%	1%	1%	1%	16%	0%	F	0.072	F	0.516	14000	G
	To: Davis St															
58	City of Emporia (Maint: 40)	0.65	14000	G	82%	1%	1%	1%	16%	0%	F	0.071	F	0.510	13000	G
	To: East Atlantic St															
58	City of Emporia (Maint: 40)	0.40	15000	G	82%	1%	1%	1%	16%	0%	F	0.069	F	0.512	14000	G
	To: ECL Emporia															
East 58 Ramp	City of Emporia (Maint: 40)	0.18	2400	G							0.085	F		2400	G	
	To: I-95-S FROM RT 58															
East 58 Ramp	City of Emporia (Maint: 40)	0.13	1300	G							0.117	F		1300	G	
	To: I-95-N FROM RT 58															
West 58 Ramp	City of Emporia (Maint: 40)	0.14	4400	G							0.082	F		4400	G	
	To: I-95-S FROM RT 58															
West 58 Ramp	City of Emporia (Maint: 40)	0.18	1200	G							0.079	F		1200	G	
	To: I-95 North															
Bus 58 Market Dr	City of Emporia	0.21	10000	G	97%	0%	1%	0%	1%	0%	C	0.092	F	0.549	11000	G
	To: West Atlantic St															
Bus 58 West Atlantic St	City of Emporia	0.44	9800	G	98%	0%	1%	0%	1%	0%	C	0.086	F	0.506	10000	G
	To: North Main Street															
Bus 58 East Atlantic St	City of Emporia	0.25	3700	G	90%	1%	1%	0%	8%	0%	F	0.087	F	0.530	3900	G
	To: Reese St															
Bus 58 East Atlantic St	City of Emporia	1.20	1700	G	90%	1%	1%	0%	8%	0%	C	0.100	F	0.622	1800	G
	To: US 58 East Intersection															

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 2013
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							2Axle	3+Axle	1Trail	2Trail						
North 95	From: SCL Emporia															
	City of Emporia (Maint: 40)	1.05	20000	A	81%	1%	1%	1%	17%	0%	F	0.146	A	16000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		39000	A	82%	1%	1%	1%	16%	0%	F	NA		33000	A	
North 95	From: US 58															
	City of Emporia (Maint: 40)	0.62	17000	A	81%	1%	1%	1%	17%	0%	F	0.154	A	14000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		33000	A	75%	1%	2%	1%	22%	0%	F	NA		28000	A	
North 95 Ramp	From: I-95 North															
	City of Emporia (Maint: 40)	0.13	3300	G								0.078	F	3300	G	
North 95 Ramp	From: I-95 North Exit 11A Ramp split															
	City of Emporia (Maint: 40)	0.04	NA									NA		NA		
North 95 Ramp	From: I-95 North															
	City of Emporia (Maint: 40)	0.12	1100	G								0.077	F	1100	G	
North 95 Ramp	From: I-95-N011C TO RT 58 BUS															
	City of Emporia (Maint: 40)	0.05	NA									NA		NA		
South 95	From: SCL Emporia															
	City of Emporia (Maint: 40)	1.24	20000	A	83%	1%	1%	1%	15%	0%	F	0.146	A	16000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		39000	A	82%	1%	1%	1%	16%	0%	F	NA		33000	A	
South 95	From: US 58															
	City of Emporia (Maint: 40)	0.35	16000	A	69%	1%	2%	1%	27%	1%	F	0.149	A	14000	A	
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		33000	A	75%	1%	2%	1%	22%	0%	F	NA		28000	A	
South 95 Ramp	From: I-95-S TO RT 58															
	City of Emporia (Maint: 40)	0.13	NA									NA		NA		
South 95 Ramp	From: I-95 South															
	City of Emporia (Maint: 40)	0.18	1900	G								0.088	F	1900	G	
301 South Main St	From: SCL Emporia															
	City of Emporia	0.45	5600	G	96%	1%	1%	0%	2%	0%	C	0.09	F	0.521	5900	G
301 South Main St	From: Low Ground Rd															
	City of Emporia	0.24	8700	G	96%	1%	1%	0%	2%	0%	F	0.089	F	0.581	9300	G
301 South Main St	From: Jefferson St															
	City of Emporia	0.36	9800	G	96%	1%	1%	0%	2%	0%	F	0.085	F	0.624	10000	G

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Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
							From: Brunswick Ave										
301 South Main St	City of Emporia	0.49	14000	G	97%	1%	1%	0%	1%	0%	C	0.09	F	0.559	15000	G	
							To: Valley St										
301 South Main St	City of Emporia	0.20	13000	G	97%	1%	1%	0%	1%	0%	F	0.087	F	0.525	14000	G	
							From: Atlantic Ave										
301 North Main St	City of Emporia	0.74	8600	G	96%	0%	2%	1%	2%	0%	C	0.095	F	0.5	9100	G	
							To: US 58										
301 North Main St	City of Emporia	0.34	8900	G	97%	0%	1%	0%	2%	0%	F	0.099	F	0.621	9400	G	
							From: Halifax St										
301 North Main St	City of Emporia	0.16	9300	G	97%	0%	1%	0%	2%	0%	F	0.099	F	0.613	9900	G	
							To: NCL Emporia										

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2013
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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 Emporia																
(F131) Clover Leaf Dr	1.06	210	R			US 58; Bus US 58					NA			NA		05/13/2008
						Dead End										
(F963)	0.04	0	R			Bus US 58					NA			NA		02/28/2011
						Dead End										
(F964)	0.07	7	R			US 58; Bus US 58					NA			NA		05/13/2008
						Dead End										
(F965)	0.31	3	R			Reese St					NA			NA		05/13/2008
						Dead End										
(1) Brink Rd	0.16	2300	G	99%	0%	JB-40-109 SCL Emporia				F	0.093	F	0.602	2400	G	2013
						US 301										
(2) Purdy Rd	0.49	2200	G	92%	1%	1%	1%	6%	0%	C	0.093	F	0.625	2300	G	2013
						West Atlantic St										
(2) Purdy Rd	0.14	970	G	92%	1%	1%	1%	6%	0%	F	0.098	F	0.554	1000	G	2013
						Satterfield Dr										
						NCL Emporia										
(5) West End Dr	0.42	300	G	99%	0%	US 58				C	0.132	F	0.512	320	G	2013
						109-2 Purdy Rd										
(3800) Greenville Ave	0.17	300	G	99%	0%	1%	0%	0%	0%	C	0.123	F	0.725	320	G	2013
						South Main St										
						Tillar St										
(3801) Low Ground Rd	0.43	2200	G	98%	1%	1%	0%	0%	0%	C	0.092	F	0.539	2400	G	2013
						SCL Emporia										
						South Main St										
(3801) Laurel St	0.43	560	G	99%	0%	0%	0%	0%	0%	C	0.114	F	0.684	600	G	2013
						Temple Ave										
(3802) Brunswick Ave	0.20	3500	G	98%	1%	0%	0%	0%	0%	F	0.083	F	0.611	3700	G	2013
						WCL Emporia										
						Brunswick Ave Ext.										
(3802) Brunswick Ave	0.66	3900	G	97%	1%	1%	0%	1%	0%	C	0.096	F	0.637	4100	G	2013
						South Main St										
(3802) Hicksford Ave	0.46	2600	G	98%	1%	0%	0%	0%	0%	C	0.104	F	0.569	2800	G	2013
						Lee St										
(3802) Lee St	0.37	1600	G	99%	0%	1%	0%	0%	0%	C	0.1	F	0.524	1700	G	2013
						Hicksford Ave										
						Southampton St										
(3804) Valley St	0.14	850	G	99%	0%	1%	0%	0%	0%	F	0.093	F	0.531	900	G	2013
						North Main St										
(3804) Southampton St	0.29	1100	G	99%	0%	1%	0%	0%	0%	C	0.088	F	0.566	1200	G	2013
						Halifax St										
(3804) Southampton St	0.18	1500	G	99%	0%	1%	0%	0%	0%	F	0.090	F	0.620	1600	G	2013
						Lee St										
						East Atlantic St										
(3805) Davis St	1.32	1200	G	98%	1%	1%	0%	1%	0%	C	0.117	F	0.62	1300	G	2013
						East Atlantic St										
						ECL Emporia										
(3807) Halifax St	0.15	1900	G	98%	1%	1%	0%	0%	0%	F	0.097	F	0.721	2000	G	2013
						Southampton St										
(3807) Halifax St	0.34	2100	G	98%	1%	1%	0%	0%	0%	C	0.097	F	0.519	2200	G	2013
						US 58 East Atlantic St										
						Ruffin St										

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						2Axle	3+Axle	1Trail	2Trail							
City of Emporia																
(3807) Halifax St	0.83	1100	G	98%	1%	1%	0%	0%	0%	C	0.103	F	0.602	1100	G	2013
(3808) Reese St	0.12	610	G	98%	0%	1%	1%	0%	0%	C	0.124	F	0.741	650	G	2013
(3808) Reese St	0.83	1700	G	98%	1%	1%	0%	0%	0%	C	0.097	F	0.601	1800	G	2013
(3808) Reese St	0.84	890	G	88%	3%	1%	2%	5%	0%	C	0.122	F	0.678	940	G	2013
(3809) Belfield Dr	0.17	2100	G	99%	0%	0%	0%	0%	0%	C	0.111	F	0.712	2200	G	2013
(3810) Weaver Ave	0.21	2200	G	97%	1%	2%	0%	0%	0%	C	0.104	F	0.647	2400	G	2013
(3815) W Atlantic Ave	0.24	680	G	99%	0%	0%	0%	0%	0%	F	0.101	F	0.687	720	G	2013
Baker St		480	G								0.126	F		510	G	2013
Briggs St		1300	G								0.104	F	0.547	1300	G	2013
Clay St		2200	G								0.101	F	0.590	2300	G	2013
Jefferson St		1300	G								0.111	F	0.521	1400	G	2013
Reese St		440	G	97%	2%	1%	0%	0%	0%	C	0.112	F	0.575	440	G	2013
Ruffin St		1100	G								0.094	F	0.564	1200	G	2013
Temple Ave		510	G								0.119	F	0.552	540	G	2013
Tillar St		1500	G								0.121	F	0.531	1600	G	2013
West Ave		270	G								0.128	F	0.554	280	G	2013
West End Blvd		610	G								0.099	F	0.578	650	G	2013