2008
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

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 - Business Route
Bypas - Bypass Route
Truck - Truck Route

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 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.

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City of Emporia

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW
	From: WCL Emporia															
58 West Atlantic St	City of Emporia (Maint: 40)	0.41	**14000**	**F**	80%	1%	1%	1%	17%	1%	F	0.073	F		13000	F
	To: / From: Purdy Rd															
58 West Atlantic St	City of Emporia (Maint: 40)	0.21	**22000**	**F**	80%	1%	1%	1%	17%	1%	F	0.083	F		21000	F
	To: / From: I-95															
58	City of Emporia (Maint: 40)	0.84	**17000**	**F**	76%	1%	1%	1%	21%	1%	C	0.077	F		16000	F
	To: / From: US 301 Main St															
58	City of Emporia (Maint: 40)	0.64	**14000**	**F**	71%	1%	1%	2%	25%	1%	C	0.078	F		14000	F
	To: / From: Reese St															
58	City of Emporia (Maint: 40)	0.49	**16000**	**F**	84%	1%	1%	1%	13%	0%	F	0.072	F		15000	F
	To: / From: Davis St															
58	City of Emporia (Maint: 40)	0.65	**16000**	**F**	84%	1%	1%	1%	13%	0%	F	0.073	F		15000	F
	To: / From: East Atlantic St															
58	City of Emporia (Maint: 40)	0.40	**16000**	**F**	84%	1%	1%	1%	13%	0%	F	0.071	F		15000	F
	To: ECL Emporia															
Bus	From: US 58 West Intersection															
58 Market Dr	City of Emporia	0.21	**9600**	**F**	98%	0%	1%	0%	1%	0%	C	NA			10000	F
	To: West Atlantic St															
Bus	From: US 58 Connector															
58 West Atlantic St	City of Emporia	0.44	**9900**	**F**	98%	0%	1%	0%	1%	0%	C	0.081	F		11000	F
	To: / From: North Main Street															
Bus 58 East Atlantic St	City of Emporia	0.25	**3600**	**F**	92%	1%	1%	0%	7%	0%	F	0.102	F	0.523	4000	F
	To: / From: Reese St															
Bus 58 East Atlantic St	City of Emporia	1.20	**1600**	**F**	92%	1%	1%	0%	7%	0%	C	0.1	F		1800	F
	To: US 58 East Intersection															
	From: SCL Emporia															
North 95	City of Emporia (Maint: 40)	1.05	**19000**	**F**	81%	1%	1%	1%	17%	0%	F	NA			16000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**38000**	**F**	81%	1%	1%	1%	17%	0%	F	NA			33000	F
	To: / From: US 58															
North 95	City of Emporia (Maint: 40)	0.62	**16000**	**F**	81%	1%	1%	1%	17%	0%	F	NA			14000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**30000**	**F**	82%	1%	1%	1%	15%	0%	F	NA			28000	F
	To: NCL Emporia															
	From: SCL Emporia															
South 95	City of Emporia (Maint: 40)	1.24	**19000**	**F**	81%	1%	1%	1%	16%	0%	F	NA			16000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**38000**	**F**	81%	1%	1%	1%	17%	0%	F	NA			33000	F
	To: / From: US 58															
South 95	City of Emporia (Maint: 40)	0.35	**14000**	**F**	84%	1%	1%	1%	14%	0%	F	NA			14000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		**30000**	**F**	82%	1%	1%	1%	15%	0%	F	NA			28000	F
	To: NCL Emporia															

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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: SCL Emporia															
301 South Main St	City of Emporia	0.45	**5800**	**F**	95%	1%	1%	0%	3%	0%	C	0.092	F		6300	F
	To: Low Ground Rd															
301 South Main St	City of Emporia	0.24	**9700**	**F**	95%	1%	1%	0%	3%	0%	F	0.088	F		11000	F
	To: Jefferson St															
301 South Main St	City of Emporia	0.36	**9700**	**F**	95%	1%	1%	0%	3%	0%	F	0.089	F		11000	F
	To: Brunswick Ave															
301 South Main St	City of Emporia	0.49	**14000**	**F**	97%	1%	1%	0%	1%	0%	C	0.080	F		16000	F
	To: Valley St															
301 South Main St	City of Emporia	0.20	**13000**	**F**	97%	1%	1%	0%	1%	0%	F	0.081	F		15000	F
	To: Atlantic Ave															
301 North Main St	City of Emporia	0.74	**9900**	**F**	97%	1%	1%	0%	1%	0%	F	NA			11000	F
	To: US 58															
301 North Main St	City of Emporia	0.34	**8100**	**F**	96%	0%	1%	1%	2%	0%	F	NA			8800	F
	To: Halifax St															
301 North Main St	City of Emporia	0.16	**9200**	**F**	96%	0%	1%	1%	2%	0%	F	NA			10000	F
	To: NCL Emporia															

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Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle	Truck 3+Axle	Truck 1Trail	Truck 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
City of Emporia																
(F131) Clover Leaf Dr	1.06	**210**	**R**								NA			NA		05/13/2008
From: US 58; Bus US 58																
To: Dead End																
(F963)	0.04	**NA**									NA			NA		
From: Bus US 58																
To: Dead End																
(F964)	0.07	**7**	**R**								NA			NA		05/13/2008
From: US 58; Bus US 58																
To: Dead End																
(F965)	0.31	**3**	**R**								NA			NA		05/13/2008
From: Reese St																
To: Dead End																
(1) Brink Rd	0.16	**2500**	**F**	97%	0%	1%	2%	0%	0%	F	0.093	F	0.639	2700	F	2008
From: JB-40-109 SCL Emporia																
To: US 301																
(2) Purdy Rd	0.49	**2400**	**F**	95%	1%	1%	1%	3%	0%	C	0.101	F		2700	F	2008
From: West Atlantic St																
To: Satterfield Dr																
(2) Purdy Rd	0.14	**1200**	**F**	95%	1%	1%	1%	3%	0%	F	0.1	F	0.706	1300	F	2008
From: Satterfield Dr																
To: NCL Emporia																
(5) West End Dr	0.42	**390**	**G**	99%	0%	0%	0%	0%	0%	C	NA			420	G	2008
From: US 58																
To: 109-2 Purdy Rd																
(3800) Greenville Ave	0.17	**390**	**F**	98%	1%	1%	0%	0%	0%	C	0.091	F	0.61	430	F	2008
From: South Main St																
To: Tillar St																
(3801) Low Ground Rd	0.43	**2500**	**F**	98%	1%	1%	0%	0%	0%	C	0.094	F		2700	F	2008
From: SCL Emporia																
To: South Main St																
(3801) Laurel St	0.43	**780**	**F**	98%	1%	1%	0%	0%	0%	C	0.106	F	0.539	850	F	2008
From: South Main St																
To: Temple Ave																
(3802) Brunswick Ave	0.20	**3600**	**F**	98%	0%	1%	0%	0%	0%	F	0.091	F	0.645	3900	F	2008
From: WCL Emporia																
To: Brunswick Ave Ext.																
(3802) Brunswick Ave	0.66	**4400**	**F**	97%	1%	1%	1%	1%	0%	C	0.088	F	0.642	4800	F	2008
From: Brunswick Ave Ext.																
To: South Main St																
(3802) Hicksford Ave	0.46	**2800**	**F**	98%	0%	1%	0%	0%	0%	C	0.109	F	0.601	3100	F	2008
From: South Main St																
To: Lee St																
(3802) Lee St	0.37	**1800**	**F**	98%	1%	1%	0%	0%	0%	C	0.098	F	0.578	1900	F	2008
From: Hicksford Ave																
To: Southampton St																
(3804) Valley St	0.14	**880**	**F**	98%	0%	1%	0%	0%	0%	F	0.109	F	0.521	960	F	2008
From: North Main St																
To: Halifax St																
(3804) Southampton St	0.29	**1000**	**F**	98%	0%	1%	0%	0%	0%	C	0.099	F	0.5	1100	F	2008
From: Halifax St																
To: Lee St																
(3804) Southampton St	0.18	**1700**	**F**	98%	0%	1%	0%	0%	0%	F	0.099	F	0.571	1800	F	2008
From: Lee St																
To: East Atlantic St																
(3805) Davis St	1.32	**1300**	**F**	96%	1%	0%	1%	2%	0%	C	0.113	F	0.615	1400	F	2008
From: East Atlantic St																
To: ECL Emporia																
(3807) Halifax St	0.15	**2100**	**F**	98%	0%	1%	0%	0%	0%	F	0.112	F	0.731	2300	F	2008
From: Southampton St																
To: East Atlantic St																
(3807) Halifax St	0.34	**2200**	**F**	98%	0%	1%	0%	0%	0%	C	0.082	F	0.619	2400	F	2008
From: East Atlantic St																
To: Ruffin St																

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						2Axle	3+Axle	1Trail	2Trail							
City of Emporia																
			From: Ruffin St													
(3807) Halifax St	0.30	**1600**	**F**	100%	0%	0%	0%	0%	0%	C	0.092	F	0.557	1700	F	2008
			To: US 58													
			From:													
(3807) Halifax St	0.53	**1100**	**F**	98%	1%	1%	0%	0%	0%	C	0.115	F	0.510	1200	F	2008
			To: North Main St													
			From: 109-3804 Southampton St													
(3808) Reese St	0.12	**690**	**F**	98%	1%	1%	0%	0%	0%	C	0.113	F	0.726	750	F	2008
			To: Bus US 58													
			From:													
(3808) Reese St	0.83	**1700**	**F**	98%	0%	1%	0%	0%	0%	C	0.097	F	0.655	1900	F	2008
			To: US 58 Bypass													
			From:													
(3808) Reese St	0.84	**950**	**F**	92%	1%	2%	2%	4%	0%	C	0.116	F	0.727	1000	F	2008
			To: Sunnyside Rd													
			From: West Atlantic St													
(3809) Belfield Dr	0.17	**2200**	**F**	97%	0%	1%	2%	0%	0%	C	0.103	F	0.582	2300	F	2008
			To: Weaver Ave													
			From: Belfield Dr													
(3810) Weaver Ave	0.21	**2500**	**F**	98%	0%	1%	1%	0%	0%	C	0.104	F		2700	F	2008
			To: North Main St													
			From: Dead End near Florida Ave													
(3815) W Atlantic Ave	0.24	**720**	**F**	97%	0%	1%	2%	0%	0%	F	NA			780	F	2008
			To: Bus US 58													
			From: North Main St													
Baker St		**650**	**G**								NA			710	G	2008
			To: Halifax St													
			From: Clay St													
Briggs St		**1300**	**F**								0.102	F		1400	F	2008
			To: Tillar St													
			From: Low Ground Rd													
Clay St		**2200**	**F**								0.094	F		2400	F	2008
			To: South Main St													
			From: South Main St													
Jefferson St		**1400**	**F**								0.088	F		1500	F	2008
			To: West Ave													
			From: Halifax St													
Ruffin St		**1100**	**F**								0.108	F		1200	F	2008
			To: North Main St													
			From: Laurel St													
Temple Ave		**500**	**F**								0.135	F		540	F	2008
			To: Jefferson St													
			From: Briggs St													
Tillar St		**1400**	**F**								0.114	F		1600	F	2008
			To: Hicksford Ave													
			From: Jefferson St													
West Ave		**310**	**F**								0.108	F	0.524	340	F	2008
			To: Brunswick Ave													
			From: North Main St													
West End Blvd		**740**	**F**								0.095	F		800	F	2008
			To: Gay St													