

2003

**Virginia Department of Transportation
Daily Traffic Volume Estimates**

Special Locality Report

145

City of Franklin

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

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour 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 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



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



Secondary Route

Special Routes



Bus - Business Route

Bypas - Bypass Route

Truck - Truck Route



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 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
 Mobility Management Division
 2003
 Annual Average Daily Traffic Volume Estimates By Section of Route
 City of Franklin

Route	Length	AADT	QA	Year
City of Franklin				
Bus 58 From: WCL Franklin To: Clay Street	1.18	3000	F	2003
Bus 58 From: Hunterdale Rd To: Clay Street	0.58	4500	F	2003
Bus 58 From: Homestead Rd To: Clay Street	0.35	3900	F	2003
Bus 58 From: Lee St To: Clay Street	0.16	2800	F	2003
		Combined Traffic: 5200	F	
Bus 58 From: Gardner St To: Clay Street	0.17	2600	F	2003
		Combined Traffic: 4200	F	
Bus 58 From: High St To: 4th Avenue	0.26	2200	F	2003
Bus 58 From: Mechanic St To: Fourth Ave	0.10	3900	F	2003
Bus 58 From: Second Ave To: US 258	0.19	10000	F	2003
Bus 58 From: ECL Franklin To: Bus 58 Clay St	0.16	1600	F	2003
		Combined Traffic: 4200	F	
Bus 58 From: High St To: Lee Street	0.27	2400	F	2003
		Combined Traffic: 5200	F	
258 From: SCL Franklin To: South Street	0.28	4900	F	2003
258 From: College Drive To: South Street	0.25	9500	F	2003
258 From: Bank Street To: South Street	0.35	8900	F	2003
258 From: Roosevelt Street To: South Street	0.15	8700	F	2003
258 From: Oak Street To: South Street	0.16	7700	F	2003
258 From: Pretlow Street To: South Street	0.21	6600	F	2003
258 From: High Street To: South Street	0.16	3900	F	2003
258 From: Main Street To: South Street	0.29	3700	F	2003
258 From: Second Avenue To: Main Street	0.12	6000	F	2003
Bus 258 58 From: Mechanic Street To: Mechanic St	0.19	10000	F	2003
Bus 258 58 From: ECL Franklin To: Hunterdale Rd	0.08	830	F	2003
1 From: North Dr To: Crescent Dr				

Route	Length	AADT	QA	Year
City of Franklin				
3901 From: Morton St To: Oak Street	0.51	870	F	2003
3902 From: South St To: Maplewood St	0.47	860	F	2003
3903 From: Thomas St To: Washington St				
3903 From: SCL Franklin To: Pretlow St	1.12	1600	F	2003
3903 From: Morton St To: Pretlow St	0.15	3000	F	2003
3903 From: .15 MN Morton St To: Pretlow St	0.07	3300	F	2003
3903 From: Laurel St To: Pretlow St	0.32	3000	F	2003
3904 From: South St To: Armory Dr	0.70	14000	F	2003
3904 From: Bailey Dr To: Armory Dr	0.44	14000	F	2003
3904 From: College Dr To: Armory Dr	0.56	7600	F	2003
3904 From: Gardner St To: Armory Dr	0.09	7700	F	2003
3904 From: Second Ave To: Armory Dr	0.23	7600	F	2003
3904 From: High St To: Second Ave	0.15	6300	F	2003
3905 From: US 258 Main St To: High St	0.15	220	F	2003
3905 From: Magnolia St To: High St	0.06	390	F	2003
3905 From: Birch St To: High St	0.30	3600	F	2003
3905 From: South St To: High St	0.10	3600	F	2003
3905 From: 2nd St To: High St	0.10	3600	F	2003
3905 From: 2nd Ave To: High St	0.20	4000	F	2003
3905 From: US 58 4th Ave To: High St	0.19	4100	F	2003
3905 From: US 58 P; Lee St To: High St	0.19	4100	F	2003
3905 From: Beaman St To: High St	0.39	3400	F	2003
3905 From: Homestead Rd To: High St	0.39	3400	F	2003
3905 From: Homestead Dr To: High St	1.37	1700	F	2003
3905 From: Fairview Rd To: High St	1.37	1700	F	2003
3905 From: Fairview Dr To: High St				
3907 From: NCL Franklin To: College Dr	0.19	6700	F	2003
3907 From: South St To: College Dr	0.28	7900	F	2003
3907 From: Maplewood Ave To: College Dr	0.14	8600	F	2003
3907 From: Armory Dr To: College Dr	0.14	8600	F	2003
3907 From: SR 379 Stewart Dr To: College Dr				

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Route	Length	AADT	QA	Year
City of Franklin				
From: SR 379 Stewart Dr				
3907 College Dr	0.62	9700	F	2003
To: Sycamore Rd				
From: Sycamore Rd				
3907 College Dr	0.12	9600	F	2003
To: Clay St				
From: Bus US 58 Clay St				
3907 Hunterdale Rd	0.19	9200	F	2003
To: Fairview Dr				
From: Fairview Dr				
3907 Hunterdale Rd	0.60	5200	F	2003
To: North Dr				
From: North Dr				
3907 Hunterdale Rd	0.71	5600	F	2003
To: NCL Franklin				
From: South St				
3909 Roosevelt St	0.19	430	F	2003
To: Maplewood Ave				
From: Clay St				
3910 Homestead Rd	0.42	540	F	2003
To: High St				
From: Armory Dr				
3911 Gardner St	0.22	920	F	2003
To: Charles St				
From: Charles Street				
3911 Gardner St	0.07	760	F	2003
To: C4US 58				
From: Hunterdale Rd				
3912 Fairview Dr	0.25	4400	F	2003
To: Crescent Dr				
From: Crescent Dr				
3912 Fairview Dr	0.66	4500	F	2003
To: High St				
From: Clay St				
3913 Southampton Rd	0.21	320	F	2003
To: Cypress Ave				
From: Morton St				
3914 Banks St	0.38	2900	F	2003
To: South St				
From: Banks St				
3915 Morton St	0.30	1300	F	2003
To: Oak St				
From: Oak Street				
3915 Morton St	0.23	1300	F	2003
To: Pretlow St				
From: Fairview Dr				
3916 Crescent Dr	0.66	690	F	2003
To: North Dr				
From: High Street				
Beamen St.		110	F	2003
To: Fontaine Street				
From: South St				
Bruce St.		1000	F	2003
To: Cool Spring St.				
From: South St				
Delk St.		630	F	2003
To: Mariner St.				
From: Beamen St.				
Fontaine St.		150	F	2003
To: Norfleet St				

Route	Length	AADT	QA	Year
City of Franklin				
From: Homestead Rd				
Forest Pine Rd.		800	F	2003
To: Crescent Dr				
From: Bolling St.				
Laurel St.		470	F	2003
To: Ashton Ave				
From: Hunterdale Rd				
Magnolia Ave		70	F	2003
To: Dead End				
From: Clay St				
Meadow Lane		190	F	2003
To: Sycamore Rd				
From: Hunterdale Rd				
Old Sedley Rd		850	F	2003
To: Myrtle Dr				
From: Dead End				
Park Circle		120	F	2003
To: Clay St				
From: Roosevelt Street				
Redwood Ave		70	F	2003
To: Wilson Street				
From: Cypress Ave				
Robin Hood Rd		160	F	2003
To: Pine Ave				
From: Pine Ave				
Robin Hood Rd.		50	F	2003
To: WCL Franklin				
From: Elm Street				
Walnut St.		560	F	2003
To: South St				