

2002

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

Special Locality Report

189

Town of Chilhowie

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 30th 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
- F 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



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
 2002
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Town of Chilhowie

Route	Length	AADT	QA	Year
Town of Chilhowie				
From  WCL Chilhowie	1.13	2700	N	2002
To  SR 107 Chilhowie	1.51	7200	G	2002
To ECL Chilhowie				
North  From SCL Chilhowie	0.11	14000	G	2002
Combined Traffic:		32000	G	
To SR 107				
North  From	0.45	15000	G	2002
Combined Traffic:		31000	G	
To NCL Chilhowie				
South  From SCL Chilhowie	0.37	17000	G	2002
Combined Traffic:		32000	G	
To SR 107				
South  From	0.15	15000	G	2002
Combined Traffic:		31000	G	
To NCL Chilhowie				
From 86-762	0.32	11000	G	2002
To US 11				
107  From	0.79	5500	G	2002
To NCL Chilhowie				
From SCL Chilhowie	0.30	510	N	1998
To 86-762				
From US 11	0.18	1200	R	1998
639  From	0.30	1100	R	1998
To 86-731				
639  From	0.40	370	R	1998
To 86-640				
639  From	0.34	590	R	1998
To 86-639				
640  From	0.16	190	R	1998
To 86-736				
640  From	0.25	530	R	07/12/2001
To 86-639				
731  From	0.90	2300	R	07/12/2001
To NCL CHILHOWIE				
731  From	0.28	230	R	07/12/2001
To 86-774				
731  From	0.28	230	R	07/12/2001
To US 11				
From 86-640	0.24	190	R	07/12/2001
736  From	0.08	60	R	07/12/2001
To 86-737				
736  From	0.08	10	R	07/12/2001
To Dead End				
From 86-736	0.08	10	R	07/12/2001
737  From	0.08	10	R	07/12/2001
To Dead End				




Route	Length	AADT	QA	Year
Town of Chilhowie				
From SCL Chilhowie	0.68	5800	N	2002
762  From				
To 86-608				
762  From	0.04	12000	G	2002
To I-81 NB Ramps				
From US 11	0.12	2500	G	2002
774  From				
To 86-731				
774  From	0.36	2000	G	2002
To NCL Chilhowie				
From 86-1004	0.04	360	R	07/12/2001
1001  From				
To US 11				
1001  From	0.05	400	R	07/12/2001
To 86-1002				
1001  From	0.14	420	R	07/12/2001
To 86-731				
From 86-1023	0.04	230	R	07/12/2001
1002  From				
To 86-1005				
1002  From	0.08	210	R	07/12/2001
To 86-1001				
1002  From	0.29	450	R	07/12/2001
To 86-1007				
1002  From	0.05	360	R	07/12/2001
To 86-1008				
1002  From	0.06	320	R	07/12/2001
To 86-1003				
1002  From	0.08	210	R	07/12/2001
To 86-1009				
From US 11	0.05	1000	R	07/12/2001
1003  From				
To 86-1002				
1003  From	0.10	560	R	07/12/2001
To 86-1010				
1003  From	0.09	490	R	07/12/2001
To 86-731				
From US 11	0.19	1600	R	07/12/2001
1004  From				
To 86-1006				
1004  From	0.05	2400	R	07/12/2001
To SR 107				
1004  From	0.07	960	R	07/12/2001
To 86-1023				
1004  From	0.06	540	R	07/12/2001
To 86-1005				
1004  From	0.06	320	R	07/12/2001
To 86-1001				
From 86-1004	0.04	260	R	07/12/2001
1005  From				
To US 11 EAST				
From US 11 WEST	0.05	120	R	07/12/2001
1005  From				
To 86-1002				

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

Route	Length	AADT	QA	Year
Town of Chilhowie				
From: US 11				
1006 ₈₆	0.04	850	R	07/12/2001
To: 86-1004				
From: 86-1002				
1007 ₈₆	0.05	50	R	07/12/2001
To: Dead End				
From: Dead End				
1008 ₈₆	0.15	530	R	07/12/2001
To: US 11				
From: US 11	0.05	170	R	07/12/2001
To: 86-1002				
From: US 11; 86-9812				
1009 ₈₆	0.03	1400	R	07/12/2001
To: 86-1002				
From: 86-1002	0.10	650	R	07/12/2001
To: 86-1010				
From: 86-1010	0.10	630	R	07/12/2001
To: 86-731				
From: 86-1009				
1010 ₈₆	0.08	50	R	07/12/2001
To: 86-1003				
From: 86-1003	0.03	NA		
To: Dead End				
From: 86-731				
1011 ₈₆	0.06	80	R	07/12/2001
To: 86-1013				
From: 86-731				
1012 ₈₆	0.06	100	R	07/12/2001
To: 86-1013				
From: 86-1011				
1013 ₈₆	0.06	90	R	07/12/2001
To: 86-1012				
From: SR 107				
1014 ₈₆	0.10	100	R	07/12/2001
To: 86-731				
From: US 11				
1015 ₈₆	0.05	830	R	07/12/2001
To: 86-1028				
From: 86-1028	0.04	790	R	07/12/2001
To: 86-1016				
From: 86-1020				
1016 ₈₆	0.07	660	R	07/12/2001
To: 86-1022				
From: 86-1022	0.03	680	R	07/12/2001
To: 86-1015				
From: 86-1015	0.11	270	R	07/12/2001
To: 86-1018				
From: 86-1018	0.07	500	R	07/12/2001
To: 86-1017				
From: 86-1017	0.04	80	R	07/12/2001
To: Dead End				
From: US 11				
1017 ₈₆	0.03	1100	R	07/12/2001
To: 86-1028				
From: 86-1028	0.05	960	R	07/12/2001
To: 86-1016				

Route	Length	AADT	QA	Year
Town of Chilhowie				
From: 86-1016				
1017 ₈₆	0.12	540	R	07/12/2001
To: 86-1019				
From: 86-1016				
1018 ₈₆	0.06	160	R	07/12/2001
To: 86-1021				
From: 86-1020				
1019 ₈₆	0.06	250	R	07/12/2001
To: 86-1025				
From: 86-1025	0.22	380	R	07/12/2001
To: 86-1017				
From: 86-1016				
1020 ₈₆	0.11	420	R	1986
To: 86-1019				
From: 86-1022				
1021 ₈₆	0.16	60	R	1986
To: 86-1018				
From: 86-1016				
1022 ₈₆	0.06	80	R	1986
To: 86-1021				
From: 86-1004				
1023 ₈₆	0.04	910	R	07/12/2001
To: US 11				
From: US 11	0.05	200	R	07/12/2001
To: 86-1002				
From: 86-1002	0.13	180	R	07/12/2001
To: 86-731				
From: Dead End				
1024 ₈₆	0.19	1900	R	07/12/2001
To: US 11				
From: 86-1019				
1025 ₈₆	0.05	200	R	1986
To: 86-1026				
From: Dead End				
1026 ₈₆	0.21	NA		
To: 86-1025				
From: 86-1025	0.07	40	R	1986
To: Dead End				
From: Dead End				
1027 ₈₆	0.17	440	R	07/12/2001
To: 86-1024				
From: 86-1015				
1028 ₈₆	0.19	80	R	07/12/2001
To: 86-1017				
From: US 11				
1033 ₈₆	0.17	NA		
To: 86-731				
From: 86-762				
1034 ₈₆	0.38	260	R	1998
To: 86-762				
From: 86-762				
1035 ₈₆	0.04	690	R	07/12/2001
To: 86-1036				
From: 86-1035				
1036 ₈₆	0.25	690	R	07/12/2001
To: Dead End				

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 2002
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 Town of Chilhowie

Route	Length	AADT	QA	Year
Town of Chilhowie				
From: 86-731				
 To: Cul-de-Sac	0.28	60	R	07/12/2001
From: 86-01004(B)/				
 To: US-00011(B)/	0.03	NA		
From: CHILHOWIE HIGH SCH				
 To: US 11; 86-1009	0.23	1100	R	1995