

2010
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

189

Town of Chilhowie

Information in this report is included in Report

86

(Smyth 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

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
Traffic Engineering Division
2010
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Chilhowie

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
11 Lee Highway	From: WCL Chilhowie															
	Town of Chilhowie (Maint: 86)	1.13	2400	N	96%	2%	1%	1%	1%	0%	N	0.118	N	0.588	2500	N
11 Lee Highway	To: SR 107 Whitetop Rd															
	From: SR 107 Whitetop Ave															
11 Lee Highway	Town of Chilhowie (Maint: 86)	1.51	6400	F	96%	2%	1%	1%	1%	0%	C	0.108	F	0.508	6700	F
	To: ECL Chilhowie															
North 81	From: SCL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.11	14000	F	75%	1%	1%	1%	21%	2%	F	0.072	F		14000	F
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			28000	F	78%	1%	1%	1%	18%	1%	F	NA			29000	F
North 81	To: SR 107 White Top Ave															
	From: NCL Chilhowie															
North 81	Town of Chilhowie (Maint: 86)	0.45	14000	F	75%	1%	1%	1%	21%	2%	F	0.071	F		15000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			27000	F	78%	1%	1%	1%	18%	1%	F	0.075	F	0.509	28000
North 81	To: I-81 N															
	From: SR 107: 86-762															
Ramp I-81 N Exit 35 to SR 107	Town of Chilhowie (Maint: 86)	0.11	NA									NA			NA	
South 81	From: SCL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.37	14000	F	81%	1%	1%	1%	16%	1%	F	0.093	F		15000	F
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			28000	F	78%	1%	1%	1%	18%	1%	F	NA			29000	F
South 81	To: SR 107 White Top Ave															
	From: NCL Chilhowie															
South 81	Town of Chilhowie (Maint: 86)	0.15	13000	F	81%	1%	1%	1%	16%	1%	F	0.080	F		14000	F
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			27000	F	78%	1%	1%	1%	18%	1%	F	0.075	F	0.509	28000
South 81	To: I-81 S															
	From: SR 107 White Top Ave															
Ramp I-81 S Exit 35 to SR 107	Town of Chilhowie (Maint: 86)	0.11	NA									NA			NA	
107 White Top Ave	From: 86-762 Shop Rd															
	Town of Chilhowie (Maint: 86)	0.32	13000	F	96%	1%	1%	1%	2%	0%	C	0.085	F	0.515	13000	F
107 White Top Ave	To: US 11 Lee Hwy															
	From: US 11 Lee Highway															
107 White Top Ave	Town of Chilhowie (Maint: 86)	0.79	5000	F	95%	0%	1%	2%	2%	0%	C	0.084	F	0.577	5300	F
	To: NCL Chilhowie															
107 Ramp to I-81 N at Exit 35	From: SR 107: 86-762															
	Town of Chilhowie (Maint: 86)	0.14	NA													
107 Ramp to I-81 S at Exit 35	To: I-81 N															
	From: SR 107 White Top Ave															
107 Ramp to I-81 S at Exit 35	Town of Chilhowie (Maint: 86)	0.14	NA													
	To: I-81 S															

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Town of Chilhowie

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
						2Axle	3+Axle	1Trail	2Trail								
Town of Chilhowie																	
(608) 86		0.30	310	N										NA		09/04/2007	
(639) 86	Sulphur Springs Rd	0.18	1100	R										NA		08/15/2007	
(639) 86	Sulphur Springs Rd	0.30	480	R										NA		08/15/2007	
(639) 86	Sulphur Springs Rd	0.40	330	R										NA		09/17/2007	
(640) 86		0.34	280	R										NA		09/17/2007	
(640) 86		0.16	170	R										NA		09/17/2007	
(731) 86	Old Stage Rd	0.25	3300	R										NA		09/04/2007	
(731) 86	Old Stage Rd	0.90	2300	R										NA		08/29/2007	
(731) 86	Old Stage Rd	0.28	2400	R										NA		08/29/2007	
(736) 86	Crestwood Ave	0.24	170	R										NA		09/17/2007	
(736) 86	Crestwood Ave	0.08	30	R										NA		09/17/2007	
(737) 86	Hillview Ave	0.08	40	R										NA		09/17/2007	
(762) 86		0.68	6600	N	98%	0%	1%	0%	1%	0%	N	0.088	N	0.653	6900	N	2010
(762) 86	White Top Ave	0.04	8900	F	98%	0%	1%	0%	1%	0%	F	0.092	F	0.72	9400	F	2010
(774) 86	Lyons Gap Rd	0.12	2100	F	97%	1%	1%	1%	1%	0%	F	0.097	F	0.658	2200	F	2010
(774) 86	Lyons Gap Rd	0.36	1700	F	97%	1%	1%	1%	1%	0%	C	0.108	F	0.73	1800	F	2010
(1001) 86	Church Ave	0.04	410	R										NA		09/04/2007	
(1001) 86	Church Ave	0.05	440	R										NA		08/29/2007	
(1001) 86	Church Ave	0.14	480	R										NA		09/04/2007	
(1002) 86	Chilhowie St	0.04	280	R										NA		09/04/2007	
(1002) 86	Chilhowie St	0.08	150	R										NA		09/04/2007	

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1002 86 Chilhowie St	0.29	660	R				From: 86-1001 Church Ave					NA		NA		08/29/2007
1002 86 Chilhowie St	0.05	100	R				To: 86-1007 Park Ave					NA		NA		08/29/2007
1002 86 Chilhowie St	0.06	100	R				From: 86-1008 Pine Ave					NA		NA		08/29/2007
1002 86 Chilhowie St	0.08	250	R				To: 86-1003 Sanders Ave					NA		NA		09/06/2007
							From: 86-1009 Bonham Ave									
1003 86 Sanders Ave	0.05	650	R				From: US 11 Lee Highway					NA		NA		08/29/2007
1003 86 Sanders Ave	0.10	100	R				To: 86-1002 Chilhowie St					NA		NA		08/29/2007
1003 86 Sanders Ave	0.09	470	R				From: 86-1010 Hood St					NA		NA		09/06/2007
							To: 86-731 Old Stage Rd									
1004 86 West Main St	0.19	1500	R				From: US 11 Lee Highway					NA		NA		09/04/2007
1004 86 West Main St	0.05	2100	R				To: 86-1006 Depot Ave					NA		NA		09/04/2007
1004 86 West Main St	0.07	460	R				From: SR 107 White Top Ave					NA		NA		09/04/2007
1004 86 West Main St	0.06	160	R				To: 86-1023 Walton Ave					NA		NA		09/04/2007
1004 86 West Main St	0.06	580	R				From: 86-1005 First Ave					NA		NA		09/04/2007
							To: 86-1001 Church Ave									
1005 86 First Ave	0.04	250	R				From: 86-1004 Main St					NA		NA		09/17/2007
1005 86 First Ave	0.05	810	R				To: US 11 E, Lee Hwy					NA		NA		08/29/2007
							From: US 11 W, Lee Hwy									
1006 86 Depot Ave	0.04	790	R				To: 86-1002 Chilhowie St					NA		NA		09/04/2007
							From: 86-1004 Main St									
1007 86 Park Ave	0.05	90	R				From: 86-1002 Chilhowie St					NA		NA		08/29/2007
							To: Dead End									
1008 86 Pine Ave	0.15	1300	R				From: Dead End					NA		NA		09/04/2007
1008 86 Pine Ave	0.05	250	R				To: US 11 Lee Highway					NA		NA		09/04/2007
							From: 86-1002 Chilhowie St									
1009 86 Bonham Ave	0.03	960	R				From: US 11; 86-9812					NA		NA		09/04/2007
1009 86 Bonham Ave	0.10	440	R				To: 86-1002 Chilhowie St					NA		NA		08/29/2007
1009 86 Bonham Ave	0.10	690	R				From: 86-1010 Hood St					NA		NA		08/29/2007
							To: 86-731 Old Stage Rd									
1010 86 Hood St	0.08	80	R				From: 86-1009 Bonham Ave					NA		NA		08/29/2007
							To: 86-1003 Sanders Ave									

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1010 86 Hood St	0.03	80	R				From: 86-1003 Sanders Ave				NA			NA		09/17/2007
							To: Dead End									
1011 86 W Sunshine Dr	0.06	70	R				From: 86-731 Old Stage Rd				NA			NA		08/29/2007
							To: 86-1013 Sunshine Dr									
1012 86 E Sunshine Dr	0.06	150	R				From: 86-731 Old Stage Rd				NA			NA		08/29/2007
							To: 86-1013 Sunshine Dr									
1013 86 Sunshine Dr	0.06	80	R				From: 86-1011 Sunshine Ave				NA			NA		09/17/2007
							To: 86-1012 Sunshine Ave									
1014 86 Beattie Ave	0.10	90	R				From: SR 107 White Top Ave				NA			NA		08/29/2007
							To: 86-731 Old Stage Rd									
1015 86 Greever Ave	0.05	810	R				From: US 11 Lee Highway				NA			NA		08/13/2007
							To: 86-1028 Greenway St									
1015 86 Greever Ave	0.04	1100	R				From: 86-1028 Greenway St				NA			NA		08/15/2007
							To: 86-1016 Sunset St									
1016 86 Sunset St	0.07	510	R				From: 86-1020 West Ave				NA			NA		08/15/2007
							To: 86-1022 Midnight Dr									
1016 86 Sunset St	0.03	1000	R				From: 86-1022 Midnight Dr				NA			NA		08/15/2007
							To: 86-1015 Greever Ave									
1016 86 Sunset St	0.11	130	R				From: 86-1015 Greever Ave				NA			NA		08/15/2007
							To: 86-1018 Midnight Dr									
1016 86 Sunset St	0.07	560	R				From: 86-1018 Midnight Dr				NA			NA		08/15/2007
							To: 86-1017 Martin Ave									
1016 86 Sunset St	0.04	70	R				From: 86-1017 Martin Ave				NA			NA		08/15/2007
							To: Dead End									
1017 86 Martin Ave	0.03	1100	R				From: US 11 Lee Highway				NA			NA		08/15/2007
							To: 86-1028 Greenway St									
1017 86 Martin Ave	0.05	240	R				From: 86-1028 Greenway St				NA			NA		08/15/2007
							To: 86-1016 Sunset St									
1017 86 Martin Ave	0.12	570	R				From: 86-1016 Sunset St				NA			NA		08/15/2007
							To: 86-1019 Skyview Dr									
1018 86 Midnight Dr	0.06	100	R				From: 86-1016 Sunset St				NA			NA		08/15/2007
							To: 86-1021 Midnight Dr									
1019 86 Skyview Dr	0.06	280	R				From: 86-1020 West Ave				NA			NA		09/17/2007
							To: 86-1025 Cress Ave									
1019 86 Skyview Dr	0.22	470	R				From: 86-1025 Cress Ave				NA			NA		08/15/2007
							To: 86-1017 Martin Ave									
1020 86 West Ave	0.11	240	R				From: 86-1016 Sunset Dr				NA			NA		09/17/2007
							To: 86-1019 Skyview Dr									
1021 86 Midnight Dr	0.16	310	R				From: 86-1022 Midnight Dr				NA			NA		08/15/2007
							To: 86-1018 Midnight Dr									
1022 86 Midnight Dr	0.06	100	R				From: 86-1016 Sunset St				NA			NA		08/15/2007
							To: 86-1021 Midnight Dr									

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
(1023/86) Walton Ave	0.04	880	R			From: 86-1004 Main St					NA			NA		09/17/2007
(1023/86) Walton Ave	0.05	1100	R			To: US 11 Lee Highway					NA			NA		09/04/2007
(1023/86) Walton Ave	0.13	840	R			From: 86-1002 Chilhowie St					NA			NA		09/04/2007
						To: 86-731 Old Stage Rd										
(1024/86) Industrial Park Rd	0.19	110	R			From: Dead End					NA			NA		08/15/2007
						To: US 11 Lee Highway										
(1025/86) Cress Ave	0.05	330	R			From: 86-1019 Skyview Dr					NA			NA		09/20/2007
						To: 86-1026 Meadow Brook Lane										
(1026/86) Meadow Brook Lane	0.21	250	R			From: Dead End					NA			NA		09/20/2007
(1026/86) Meadow Brook Lane	0.07	80	R			To: 86-1025 Cress Ave					NA			NA		09/20/2007
						To: Dead End										
(1027/86) Kendall Dr	0.17	470	R			From: Dead End					NA			NA		08/15/2007
						To: 86-1024 Industrial Park Rd										
(1028/86) Greenway St	0.19	130	R			From: 86-1015 Greever Ave					NA			NA		08/15/2007
						To: 86-1017 Martin Ave										
(1033/86) Poplar Ave	0.17	550	R			From: US 11 Lee Highway					NA			NA		08/29/2007
						To: 86-731 Old Stage Rd										
(1034/86) Packing House Rd	0.38	140	R			From: 86-762 White Top Rd					NA			NA		08/29/2007
						To: 86-762										
(1035/86) Overlook Dr	0.04	710	R			From: 86-762					NA			NA		09/04/2007
						To: 86-1036 Overlook Dr										
(1036/86) Overlook Dr	0.25	560	R			From: 86-1035 Overlook Dr					NA			NA		09/04/2007
						To: Dead End										
(1037/86) Haynes Ave	0.28	60	R			From: 86-731 Old Stage Rd					NA			NA		08/15/2007
						To: Cul-de-Sac										
(1038/86)	0.03	980	R			From: 86-1004 Main St					NA			NA		09/04/2007
						To: US 11 Lee Highway										
(9812/86) Williams St	0.23	1200	R			From: Chilhowie High School					NA			NA		09/19/2007
						To: US 11; 86-1009										