

2014
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

- 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 - Business Route
 Bypass - 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
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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	2100	N	97%	1%	1%	0%	1%	0%	N	0.111	N	0.518	2200	N
11 Lee Highway	To: SR 107 Whitetop Rd															
	From: SR 107 Whitetop Ave															
11 Lee Highway	Town of Chilhowie (Maint: 86)	1.51	6500	G	97%	1%	1%	0%	1%	0%	C	0.105	F	0.592	6900	G
	To: ECL Chilhowie															
North 81	From: SCL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.11	15000	G	79%	1%	1%	1%	18%	1%	F	0.076	F		16000	G
Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	G	80%	1%	1%	1%	17%	1%	F	NA		30000	G	
North 81	To: SR 107 White Top Ave															
	From: SR 107 White Top Ave															
North 81	Town of Chilhowie (Maint: 86)	0.45	15000	G	79%	1%	1%	1%	18%	1%	F	0.07	F		16000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			30000	G	80%	1%	1%	1%	17%	1%	F	0.077	F	0.548	31000
North 81	To: NCL Chilhowie															
	From: I-81 North															
Ramp I-81 N Exit 35 to SR 107	Town of Chilhowie (Maint: 86)	0.11	2900	G								0.106	F		2900	G
South 81	To: SR 107 White Top Ave															
	From: SCL Chilhowie															
South 81	Town of Chilhowie (Maint: 86)	0.37	14000	G	81%	1%	1%	1%	15%	1%	F	0.077	F		15000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			29000	G	80%	1%	1%	1%	17%	1%	F	NA		30000	G
South 81	To: SR 107 White Top Ave															
	From: SR 107 White Top Ave															
South 81	Town of Chilhowie (Maint: 86)	0.15	15000	G	81%	1%	1%	1%	15%	1%	F	0.083	F		15000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:			30000	G	80%	1%	1%	1%	17%	1%	F	0.077	F	0.548	31000
South 81	To: NCL Chilhowie															
	From: I-81 South															
Ramp I-81 S Exit 35 to SR 107	Town of Chilhowie (Maint: 86)	0.11	3300	G								0.102	F		3300	G
107 White Top Ave	To: SR 107 White Top Ave															
	From: I-81															
107 White Top Ave	Town of Chilhowie (Maint: 86)	0.32	11000	G	96%	1%	1%	1%	2%	0%	C	0.088	F	0.507	12000	G
	To: US 11 Lee Hwy															
107 White Top Ave	From: US 11 Lee Highway															
	Town of Chilhowie (Maint: 86)	0.79	4800	G	95%	0%	1%	2%	2%	0%	C	0.090	F	0.554	5000	G
107 Ramp to I-81 N at Exit 35	To: NCL Chilhowie															
	From: SR 107; 86-762															
107 Ramp to I-81 S at Exit 35	Town of Chilhowie (Maint: 86)	0.14	2500	G								0.111	F		2500	G
	To: I-81 N															
107 Ramp to I-81 S at Exit 35	From: SR 107 White Top Ave															
	Town of Chilhowie (Maint: 86)	0.14	2800	G								0.113	F		2800	G
107	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	250	N										NA		03/05/2014	
(639) 86	Sulphur Springs Rd	0.18	810	R										NA		03/18/2014	
(639) 86	Sulphur Springs Rd	0.30	710	R										NA		03/18/2014	
(639) 86	Sulphur Springs Rd	0.40	230	R										NA		03/18/2014	
(640) 86		0.34	460	R										NA		03/18/2014	
(640) 86		0.16	70	R										NA		02/13/2014	
(731) 86	Old Stage Rd	0.25	370	R										NA		03/18/2014	
(731) 86	Old Stage Rd	0.90	1500	R										NA		03/18/2014	
(731) 86	Old Stage Rd	0.28	120	R										NA		03/18/2014	
(736) 86	Crestwood Ave	0.24	350	R										NA		03/18/2014	
(736) 86	Crestwood Ave	0.08	40	R										NA		02/26/2014	
(737) 86	Hillview Ave	0.08	20	R										NA		02/26/2014	
(762) 86		0.68	6300	N	98%	0%	1%	0%	1%	0%	N	0.091	N	0.618	6600	N	2014
(762) 86	White Top Ave	0.04	8900	G	98%	0%	1%	0%	1%	0%	F	0.077	F	0.575	9300	G	2014
(774) 86	Lyons Gap Rd	0.12	2100	G	98%	1%	1%	0%	0%	0%	F	0.114	F	0.613	2200	G	2014
(774) 86	Lyons Gap Rd	0.36	1700	G	98%	1%	1%	0%	0%	0%	C	0.111	F	0.678	1800	G	2014
(1001) 86	Church Ave	0.04	350	R										NA		03/20/2014	
(1001) 86	Church Ave	0.05	810	R										NA		03/20/2014	
(1001) 86	Church Ave	0.14	620	R										NA		03/20/2014	
(1002) 86	Chilhowie St	0.04	170	R										NA		04/01/2014	
(1002) 86	Chilhowie St	0.08	180	R										NA		04/01/2014	

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1002 86 Chilhowie St	0.29	590	R			From 86-1001 Church Ave					NA		NA			04/01/2014
1002 86 Chilhowie St	0.05	280	R			To 86-1007 Park Ave					NA		NA			04/01/2014
1002 86 Chilhowie St	0.06	290	R			To 86-1008 Pine Ave					NA		NA			04/01/2014
1002 86 Chilhowie St	0.08	270	R			To 86-1003 Sanders Ave					NA		NA			04/01/2014
						To 86-1009 Bonham Ave										
1003 86 Sanders Ave	0.05	340	R			From US 11 Lee Highway					NA		NA			04/08/2014
1003 86 Sanders Ave	0.10	340	R			To 86-1002 Chilhowie St					NA		NA			04/01/2014
1003 86 Sanders Ave	0.09	250	R			To 86-1010 Hood St					NA		NA			04/01/2014
						To 86-731 Old Stage Rd										
1004 86 West Main St	0.19	1300	R			From US 11 Lee Highway					NA		NA			03/20/2014
1004 86 West Main St	0.05	1900	R			To 86-1006 Depot Ave					NA		NA			03/20/2014
1004 86 West Main St	0.07	380	R			To SR 107 White Top Ave					NA		NA			03/20/2014
1004 86 West Main St	0.06	180	R			To 86-1023 Walton Ave					NA		NA			03/20/2014
1004 86 West Main St	0.06	140	R			To 86-1005 First Ave					NA		NA			03/20/2014
						To 86-1001 Church Ave										
1005 86 First Ave	0.04	90	R			From 86-1004 Main St					NA		NA			03/20/2014
						To US 11 E, Lee Hwy										
1005 86 First Ave	0.05	810	R			From US 11 W, Lee Hwy					NA		NA			08/29/2007
						To 86-1002 Chilhowie St										
1006 86 Depot Ave	0.04	890	R			From US 11 Lee Highway					NA		NA			03/20/2014
						To 86-1004 Main St										
1007 86 Park Ave	0.05	250	R			From 86-1002 Chilhowie St					NA		NA			04/01/2014
						To Dead End										
1008 86 Pine Ave	0.15	990	R			From Dead End					NA		NA			04/01/2014
1008 86 Pine Ave	0.05	150	R			To US 11 Lee Highway					NA		NA			04/01/2014
						To 86-1002 Chilhowie St										
1009 86 Bonham Ave	0.03	1100	R			From US 11; 86-9812					NA		NA			04/01/2014
1009 86 Bonham Ave	0.10	1100	R			To 86-1002 Chilhowie St					NA		NA			04/01/2014
1009 86 Bonham Ave	0.10	670	R			To 86-1010 Hood St					NA		NA			04/01/2014
						To 86-731 Old Stage Rd										
1010 86 Hood St	0.08	70	R			From 86-1009 Bonham Ave					NA		NA			04/01/2014
						To 86-1003 Sanders Ave										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1010 86 Hood St	0.03	60	R			From 86-1003 Sanders Ave					NA		NA			04/01/2014
						To Dead End										
1011 86 W Sunshine Dr	0.06	100	R			From 86-731 Old Stage Rd					NA		NA			04/01/2014
						To 86-1013 Sunshine Dr										
1012 86 E Sunshine Dr	0.06	80	R			From 86-731 Old Stage Rd					NA		NA			04/01/2014
						To 86-1013 Sunshine Dr										
1013 86 Sunshine Dr	0.06	49	R			From 86-1011 Sunshine Ave					NA		NA			04/01/2014
						To 86-1012 Sunshine Ave										
1014 86 Beattie Ave	0.10	190	R			From SR 107 White Top Ave					NA		NA			03/20/2014
						To 86-731 Old Stage Rd										
1015 86 Greever Ave	0.05	660	R			From US 11 Lee Highway					NA		NA			03/20/2014
						To 86-1028 Greenway St										
1015 86 Greever Ave	0.04	620	R			From 86-1028 Greenway St					NA		NA			03/20/2014
						To 86-1016 Sunset St										
1016 86 Sunset St	0.07	420	R			From 86-1020 West Ave					NA		NA			03/20/2014
						To 86-1022 Midnight Dr										
1016 86 Sunset St	0.03	730	R			From 86-1022 Midnight Dr					NA		NA			03/20/2014
						To 86-1015 Greever Ave										
1016 86 Sunset St	0.11	200	R			From 86-1015 Greever Ave					NA		NA			03/20/2014
						To 86-1018 Midnight Dr										
1016 86 Sunset St	0.07	300	R			From 86-1018 Midnight Dr					NA		NA			03/20/2014
						To 86-1017 Martin Ave										
1016 86 Sunset St	0.04	40	R			From 86-1017 Martin Ave					NA		NA			02/26/2014
						To Dead End										
1017 86 Martin Ave	0.03	810	R			From US 11 Lee Highway					NA		NA			03/20/2014
						To 86-1028 Greenway St										
1017 86 Martin Ave	0.05	580	R			From 86-1028 Greenway St					NA		NA			03/20/2014
						To 86-1016 Sunset St										
1017 86 Martin Ave	0.12	410	R			From 86-1016 Sunset St					NA		NA			03/20/2014
						To 86-1019 Skyview Dr										
1018 86 Midnight Dr	0.06	90	R			From 86-1016 Sunset St					NA		NA			03/20/2014
						To 86-1021 Midnight Dr										
1019 86 Skyview Dr	0.06	170	R			From 86-1020 West Ave					NA		NA			03/20/2014
						To 86-1025 Cress Ave										
1019 86 Skyview Dr	0.22	350	R			From 86-1025 Cress Ave					NA		NA			03/20/2014
						To 86-1017 Martin Ave										
1020 86 West Ave	0.11	510	R			From 86-1016 Sunset Dr					NA		NA			03/20/2014
						To 86-1019 Skyview Dr										
1021 86 Midnight Dr	0.16	140	R			From 86-1022 Midnight Dr					NA		NA			03/20/2014
						To 86-1018 Midnight Dr										
1022 86 Midnight Dr	0.06	120	R			From 86-1016 Sunset St					NA		NA			03/20/2014
						To 86-1021 Midnight Dr										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1023 86 Walton Ave	0.04	630	R			From 86-1004 Main St					NA			NA		03/20/2014
1023 86 Walton Ave	0.05	290	R			To US 11 Lee Highway					NA			NA		03/20/2014
1023 86 Walton Ave	0.13	100	R			From 86-1002 Chilhowie St					NA			NA		03/20/2014
						To 86-731 Old Stage Rd										
1024 86 Industrial Park Rd	0.19	620	R			From Dead End					NA			NA		03/20/2014
						To US 11 Lee Highway										
1025 86 Cress Ave	0.05	310	R			From 86-1019 Skyview Dr					NA			NA		03/20/2014
						To 86-1026 Meadow Brook Lane										
1026 86 Meadow Brook Lane	0.21	30	R			From Dead End					NA			NA		02/26/2014
						To 86-1025 Cress Ave										
1026 86 Meadow Brook Lane	0.07	120	R			From Dead End					NA			NA		02/26/2014
						To Dead End										
1027 86 Kendall Dr	0.17	440	R			From Dead End					NA			NA		03/20/2014
						To 86-1024 Industrial Park Rd										
1028 86 Greenway St	0.19	30	R			From 86-1015 Greever Ave					NA			NA		03/20/2014
						To 86-1017 Martin Ave										
1033 86 Poplar Ave	0.17	530	R			From US 11 Lee Highway					NA			NA		04/01/2014
						To 86-731 Old Stage Rd										
1034 86 Packing House Rd	0.38	60	R			From 86-762 White Top Rd					NA			NA		02/28/2014
						To 86-762										
1035 86 Overlook Dr	0.04	480	R			From 86-762					NA			NA		03/05/2014
						To 86-1036 Overlook Dr										
1036 86 Overlook Dr	0.25	280	R			From 86-1035 Overlook Dr					NA			NA		02/26/2014
						To Dead End										
1037 86 Haynes Ave	0.28	70	R			From 86-731 Old Stage Rd					NA			NA		03/03/2014
						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	1300	R			From Chilhowie High School					NA			NA		04/01/2014
						To US 11; 86-1009										