

2020
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates

where available

Special Locality Report

340

Castlewood

Information in this report is included in Report

83

(Russell County)

Prepared By
Virginia Department of Transportation
Traffic Engineering Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

The reported 2020 AADTs represent the best estimate of 2020 average daily traffic, however, this year's AADTs do vary from normal traffic in the years prior to 2020 due to COVID-19. The reported AADTs may not represent typical traffic for a given day or period within the year as the drastic seasonal variations were normalized through the factoring process. The 2020 publications are therefore colored to draw users attention to the fact that uses of the 2020 published estimates versus alternative data sources should be determined at users' discretion based on the objectives or nature of the analyses being performed.

The estimated 2020 DVMT for the entire state maintained network total to 208,000,000, which has trended down by 11 percent compared to the 2019 level of 234,000,000. For most traffic links across the state, the estimated 2020 AADTs are also seen to have decreased from their 2019 levels.

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 buses.

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
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
 Traffic Engineering Division
 2020
 Annual Average Daily Traffic Volume Estimates By Section of Route
 Castlewood

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
ALT 58 Castlewood Rd	From: Wise County Line Russell County To: SR 65	2.56	9100	A	94%	0%	1%	1%	3%	0%	C	0.106	A	0.529	9700	A
ALT 58 Castlewood Rd	From: SR 65 Memorial Dr Russell County To: SCL Castlewood	1.04	7600	F	95%	0%	1%	0%	3%	0%	C	0.085	F	0.563	8100	F
63 Dante Rd	From: Russell County Line Russell County To: NCL Castlewood	1.50	2800	G	91%	1%	1%	4%	4%	0%	C	0.09	F	0.511	2900	G
65	From: WCL Castlewood Russell County To: US 58 ALT Banners Corner	3.02	590	N	97%	1%	1%	0%	1%	0%	N	0.097	F	0.541	610	N

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Russell County																
(611) 83	Ervintown Rd	0.63	280	R							NA			NA		02/12/2015
(611) 83	Burtens Ford Rd	0.28	260	R							NA			NA		02/12/2015
(615) 83	Red Oak Ridge Rd	0.40	210	G	97%	1%	1%	1%	0%	C	0.103	F	0.517	220	G	2020
(615) 83	Red Oak Ridge Rd	1.66	460	G	97%	1%	1%	0%	0%	C	0.109	F	0.6	480	G	2020
(615) 83	Red Oak Ridge Rd	0.12	120	N	96%	2%	0%	0%	1%	N	0.139	F	0.548	130	N	2020
(628) 83	Boody Rd	1.59	420	G	99%	1%	0%	0%	0%	C	0.096	F	0.642	420	G	2020
(640) 83	Frosty Rd	2.43	710	R							NA			NA		05/05/2015
Castlewood																
(640) 83	Reeds Valley Rd	0.84	590	G	99%	0%	0%	0%	0%	C	0.110	F	0.591	610	G	2020
(640) 83	Reeds Valley Rd	0.27	280	G	98%	0%	0%	1%	1%	C	0.12	F	0.533	290	G	2020
(640) 83	Reeds Valley Rd	0.14	190	G	97%	1%	0%	0%	1%	C	0.144	F	0.539	200	G	2020
Russell County																
(669) 83	Seven Springs Hollow Rd	0.40	50	R							NA			NA		05/01/2015
(682) 83	Castle Run Rd	0.80	360	R							NA			NA		04/29/2015
(682) 83	Brick Church Circle	3.70	80	R							NA			NA		04/29/2015
(683) 83	Memorial Dr	1.03	1500	G	99%	0%	0%	0%	0%	C	0.084	F	0.602	1600	G	2020
(683) 83	Memorial Dr	0.51	1000	G	98%	1%	0%	0%	0%	C	0.087	F	0.595	1100	G	2020
(683) 83	Memorial Dr	0.36	270	G	98%	1%	0%	0%	0%	C	0.178	F	0.742	280	G	2020
(683) 83	Memorial Dr	0.36	310	G	99%	1%	0%	0%	0%	C	0.166	F	0.549	320	G	2020
(683) 83	Memorial Dr	0.57	100	G	96%	1%	3%	0%	0%	C	0.156	F	0.571	100	G	2020
(694) 83	Quarry Rd	1.73	140	G	98%	0%	0%	1%	0%	C	0.128	F	0.524	140	G	2020
(695) 83	Trout Farm Rd	0.12	1100	R							NA			NA		04/29/2015
(731) 83	Hazel Osborne Rd	0.61	40	R							NA			NA		02/12/2015




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Castlewood

Route	Length	AADT	QA	4Tire	Bus	-----Truck----- 2Axle 3+Axle 1Trail 2Trail				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Russell County																
(739) 83 Morefield Bottom Dr	0.35	290	R								NA			NA		04/23/2015
			From	SR 63 Wise St												
			To	83-807 Second St												
(739) 83 Morefield Bottom Dr	0.05	48	R								NA			NA		04/23/2015
			From	0.05 ME 83-807 Second St												
			To	Dead End												
(748) 83 Elam Rd	0.14	70	R								NA			NA		11/18/2014
			From	SR 65 Mew Rd												
			To	Dead End												
(750) 83 Campbell St	0.11	70	R								NA			NA		05/01/2015
			From	0.11 MW 83-615 Red Oak Ridge Rd												
			To	83-615 Red Oak Ridge Rd												
(750) 83 Church St	0.10	40	R								NA			NA		05/01/2015
			From	83-615 Castlewood												
			To	0.10 ME 83-615 Castlewood												
(755) 83 Chiggersville Circle		250	R								NA			NA		04/29/2015
			From	SR 65 Mew Rd												
			To	End Loop												
(762) 83 Phillips St	0.06	30	R								NA			NA		04/23/2015
			From	Dead End												
			To	SR 63 Dante Rd												
(766) 83 Banners Corner Rd	0.73	700	R								NA			NA		04/29/2015
			From	Cul-de-Sac												
			To	Alt US 58												
(786) 83 Valley Circle	0.09	49	R								NA			NA		05/05/2015
			From	83-683 Memorial Dr												
			To	83-787 Valley Circle												
(787) 83 Valley Circle	0.04	130	R								NA			NA		05/05/2015
			From	83-683 Memorial Dr												
			To	83-788 WH Short St												
(787) 83 Valley Circle	0.04	70	R								NA			NA		05/05/2015
			From	83-789 Ridge St												
			To	83-786 Valley Circle												
(787) 83 Valley Circle	0.12	60	R								NA			NA		05/05/2015
			From	83-787 Valley Circle												
			To	83-786 Valley Circle												
(788) 83 WH Short St	0.08	50	R								NA			NA		05/05/2015
			From	Dead End												
			To	83-786 Valley Circle												
(789) 83 Ridge St	0.05	30	R								NA			NA		12/22/2014
			From	Dead End												
			To	83-787 Valley Circle												
(807) 83 Second St	0.20	100	R								NA			NA		04/23/2015
			From	83-739 Morefield Bottom Dr												
			To	Dead End												
(809) 83 Greystone Dr	0.22	120	R								NA			NA		05/05/2015
			From	Dead End												
			To	83-810 Sundown Dr												
(809) 83 Greystone Dr	0.26	150	G	94%	3%	0%	2%	1%	0%	C	0.11	F	0.55	150	G	2020
			From	83-640 Frosty Rd												
			To													
Castlewood																
(810) 83 Sundown Dr	0.09	290	G	96%	1%	1%	1%	2%	0%	C	0.112	F	0.595	290	G	2020
			From	Alt US 58												
			To	83-809 Greystone Dr												
(811) 83 W Hills Dr	0.13	550	R								NA			NA		04/29/2015
			From	US 58 ALT SOUTH												
			To	83-760 Banner St												

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						2Axle	3+Axle	1Trail	2Trail							
Russell County																
813 83 Water Lane	0.14	180	R			From: Dead End					NA			NA		04/23/2015
						To: SR 63 Wise St										
828 83 Old 65	0.32	80	R			From: SR 65 Mew Rd					NA			NA		04/29/2015
						To: SR 65 Mew Rd										
840 83 Griffith Dr	0.20	110	R			From: Dead End by Alt US 58					NA			NA		04/29/2015
						To: SR 65										
849 83 Reservoir Dr	0.08	45	R			From: Dead End					NA			NA		01/23/2015
						To: Alt US 58										
859 83 Porter St	0.10	60	R			From: 83-683 Memorial Dr					NA			NA		05/05/2015
						To: Dead End										
Castlewood																
860 83 Cox St		510	R			From: Dead End					NA			NA		05/05/2015
						To: 83-683 Memorial Dr										
Russell County																
861 83 Rogers Circle		110	R			From: Dead End					NA			NA		05/05/2015
						To: 83-860 Cox St										
862 83 Meades Dr	0.15	270	R			From: 83-683 Memorial Dr					NA			NA		05/05/2015
						To: Dead End										
864 83 Winchester St	0.20	140	R			From: 83-615 Red Oak Ridge Rd					NA			NA		05/01/2015
						To: 83-866 Vinton St										
865 83 Luttie Banner Dr	0.21	60	R			From: Dead End					NA			NA		01/23/2015
						To: 83-615 Red Oak Ridge Rd										
866 83 Vinton St	0.20	70	R			From: 83-864 Winchester St					NA			NA		05/01/2015
						To: Dead End										
868 83 Old Temple Dr	0.06	40	R			From: 83-615 Red Oak Ridge Rd					NA			NA		02/23/2015
						To: Dead End										
900 83 Frosty Rd	0.11	670	G	98%	0%	0%	1%	0%	0%	C	0.092	F	0.507	670	G	2020
Castlewood																
1070 83 Duff Circle		130	R			From: Dead End					NA			NA		12/13/2011
						To: 0.05 MN Dead End										
1070 83 Duff Circle		100	R			From: 83-640 Reeds Valley Rd					NA			NA		02/10/2015
						To: 83-640 Reeds Valley Rd										
Russell County																
1073 83 Fletcher Dr	0.09	60	R			From: Dead End					NA			NA		05/01/2015
						To: 83-1070 Duff Circle										
1074 83 Clairmont Circle	0.55	190	R			From: Begin Loop					NA			NA		02/10/2015
						To: 83-640 Reeds Valley Rd										
1075 83 Duff Circle	0.25	240	R			From: Dead End					NA			NA		05/01/2015
						To: 83-640 Reeds Valley Rd										

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						2Axle	3+Axle	1Trail	2Trail							
Russell County																
 Graybeal Dr	0.21	120	R			From: 83-1070 Duff Circle				NA				NA		05/01/2015
						To: 83-1075 Duff Circle										
 Castlewood School	0.20	900	R			From: Castlewood Sch				NA				NA		05/05/2015
						To: 83-683 Memorial Dr										
 Honey Branch Rd	0.20	370	G	98%	0%	From: SR 63 N, Wise St				C	0.13	F	0.586	360	G	2020
						To: NCL Castlewood										