## 2020

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

where available

# Special Locality Report

## 206

Town of Dayton

Information in this report is included in Report

### **82**

(Rockingham 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

North 81	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.	
29	US Route		
7	Virginia State Rou	ıte	
F241	Frontage Road (F	precedes frontage route number)	
600	Secondarv Route		
		Special Routes	
Bus 29 ALT 220	Bus - Business Ro Bypas - Bypass R Truck - Truck Rou ALT - Alternate Ro Wye - Wye Route	Route ute oute	
1,1		; Southbound or Westbound direction lanes of a numbered route a different road facility than the other direction.	
600 154		ainenance Jurisdiction number is displayed below the Secondary Rout intenance Jurisdiction is different than the jurisdiction in the title of the	

Virginia Department of Transportation Traffic Engineering Division 2020 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Dayton																	
Route	Jurisdicti	on	Length	AADT	QA	4Tire	Bus		Tru e 3+Axle	••••		QC	K Factor	QK	Dir Factor	AAWDT	QW
42 257 John Wayland Hwy	From Town of Dayton		0.42	SCL Dayton 11000	N	95%	1%	1%	1%	2%	0%	Ν	0.104	F	0.527	12000	Ν
42 John Wayland Hwy	Town of Dayton (	m (Maint: 82) ∞	0.45	BUS SR 42 <b>14000</b> VCL Dayton	Α	97%	0%	0%	1%	1%	0%	С	0.124	Α	0.502	15000	А
	From Town of Dayton (	™ (Maint: 82)		257 Mason 1600		97%	0%	1%	2%	1%	0%	F	0.112	F	0.608	1700	G
Bus	T	m:	S SR SR 29	290 Huffma 90 S Huffma	in Dr in Dr												
42 290 Main St Bus	Town of Dayton (	(Maint: 82)	0.07 SR 2	2700 90 N Colleg	<b>G</b> ge St	97%	0%	1%	2%	1%	0%	F	0.105	F	0.546	2900	G
42 Main St	Town of Dayton	(Maint: 82) <sup>*•:</sup>	0.60	1100 VCL Dayton	G	97%	0%	1%	2%	1%	0%	С	0.097	F	0.56	1100	G
257 Ottobine Rd	From Town of Dayton ( T	m: (Maint: 82) <sup>To:</sup>	0.42	VCL Dayton <b>3600</b> V SR 42 Bus	Ν	95%	1%	2%	1%	1%	0%	Ν	0.102	F	0.563	3800	N
257 42 John Wayland Hwy	Frown of Dayton ( Town of Dayton (		0.42	RT 42 BUS 11000 CL Dayton	3 N	95%	1%	1%	1%	2%	0%	Ν	0.104	F	0.527	12000	N
290 Huffman Dr	From Town of Dayton		0.15	ECL Dayton 6900	G	97%	2%	0%	0%	0%	0%	F	0.095	F	0.521	7300	G
290 Huffman Dr	Town of Dayton	(Maint: 82)	0.06	ohn Waylan 1500	G	97%	2%	0%	0%	0%	0%	F	0.118	F	0.639	1600	G
290 42 Main St	Town of Dayton (	(Maint: 82)	0.07	SR 42 Bus 2700	G	97%	0%	1%	2%	1%	0%	F	0.105	F	0.546	2900	G
290 College St	Town of Dayton (	(Maint: 82)	0.33	SR 42 BUS 1700 JCL Dayton	G	97%	2%	0%	0%	0%	0%	С	0.130	F	0.568	1800	G

		<b>0</b>			Trat	Department of Tr ffic Engineering I 2020	Division			Dente						
Annual Average Daily Traffic Volume Estimates By Section of Route Town of Dayton																
Route	Length	AADT	QA	4Tire	Bus	Tru 2Axle 3+Axle	-		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
Town of Davton		From				82-1207 High St										
732 Bowman Rd	0.06	1700 <sub>To</sub>	G	94%	1%	1% 1% SR 290 Gap	3%	0%	F	0.156	F	0.554	1900	G	2020	
		From				82-1203 West View	/ St									
(1201) Turner St	0.08	30	R			82-1203 West View	/ 51			NA			NA		07/30/2012	
(82)		To				82-1204 Ashby S	t									
(1202) Sunset Dr	0.17	From: 250	R			SR 257 Ottobine F	Rd			NA			NA		07/30/2012	
(1202) Sunset Dr	0.17	230				02 1200 51							NA		07/30/2012	
(1202) Sunset Dr	0.12	210 From	R			82-1209 Thompso	on			NA			NA		07/30/2012	
(1202) Sunset Dr		To				WCL Dayton; 82-12	208									
		From				SR 257 Ottobine F	Rd									
(1203) West View St	0.45	580 To	R			82 722 D				NA			NA		07/30/2012	
		From	<u> </u>			82-732 Bowman F SR 257 Ottobine F										
(1204) Ashby St	0.45	440	G	93%	6%	1% 0%		0%	С	0.278	F	0.692	470	G	2020	
82		To				82-732 Bowman F	Rd									
		From	L			SR 257 Ottobine F	Rd									
(1205) Summit St	0.14	120	R							NA			NA		07/30/2012	
(1205) Summit St	0.14	100				82-1209 Thompso	on			NA			NA		07/30/2012	
(1205) Summit St	0.14	To	R			82-1208 Mill St							NA		07/30/2012	
		From	ĺ			SR 257 Ottobine F				1						
East View St	0.12	230	R							NA			NA		07/30/2012	
		To	-			82-1209 Thompso	on			<b>—</b> —						
(1206) East View St	0.13	140 Ta	R			00.1000.1011.0				NA			NA		07/30/2012	
		From	[			82-1208 Mill St										
(1207) High St	0.40	<b>200</b>	R			82-1209 Thompso	n			NA			NA		07/30/2012	
(18)						82-732 Bowman F	Rd									
		From				WCL Dayton										
(1208) Mill St	0.56	620 To	R			Bus SR 42				NA			NA		04/10/2018	
		From	1			82-1202 Sunset D	)r									
1209 R2 Thompson	0.07	230	R			02-1202 Sunset E	1			NA			NA		06/23/2015	
82		To	82-1203 West View St 82-1203 West View Ave													
(1209) Thompson	0.09	320	R			82-1203 West View	Ave			NA			NA		06/23/2015	
(1209) Thompson		Τα				82-1204 Ashby S										
(1209) Thompson	0.26	530 From	R			82-1204 Ashby Av	ve			NA			NA		07/30/2012	
(1209) Thompson	0.20	<b>330</b>				82-1207 High St									51,50/2012	
		From				82-1203 West View	/ St									
(1210) Stover	0.09	90	R							NA			NA		07/30/2012	
		From	<u> </u>			82-1204 Ashby S	t									
(1210) Stover St	0.09	45 To	R			82-1205 Summit A	VA			NA			NA		07/30/2012	
	0.10	From				SR 257; Bus SR 4			_							
(1211) 82		490	R			5. 257, Bus 5K 4				NA			NA		03/31/2009	
×2		To			2	SR 42 John Wayland	Hwy									
$\bigcirc$	0.32	From				Dead End								0	04/10/0010	
(1212) 82		630 To	R			82-732 Bowman F	Rd			NA			NA		04/10/2018	
		From				SR 257 Ottobine F										
1225	0.18	330	R							NA			NA		04/10/2018	
<u>n</u> 2		To				82-1209										

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Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
Town of Davton		From:	i			Pad State Meintenane		— i —						
$\bigcirc$	0.08	100	R			End State Maintenance		NA			NA		04/10/2018	
(1226) 82	0.00	To:	n			82-1225					11/1		04/10/2010	
						82-1223								
		From				82-732 Turner Rd								
(9370) Metts Dr	0.46	320	R					NA			NA		04/10/2018	
82		To:				Ashby High Sch								
		From:			C	0.46 MN 82-732 Turner Rd								
(9370) Metts Dr	0.04	290	R					NA			NA		04/10/2018	
82		To	1			70 X 0 X 0 2 7 2 7 1 1 1								
	0.05	From	L		C	0.50 MN 82-732 Turner Rd							04/40/0040	
(9370) Metts Dr	0.05	440	R					NA			NA		04/10/2018	
		To:				Dayton Elem Sch								