

TFMS - Segment Forecast Report

Username	Email	Script Import Date	Script Version	Model Version
Zachariah.Rockwell	Zachariah.Rockwell@dot.ohio.gov	5/15/2025 10:30:27 AM	Initial	2025.1900

Forecast Summary

Project ID	Project Name	Opening Year	Design Year
118870	ROS-159-3.47	2025	2045

Project Description

Resurfacing project on state route 159 in Ross County.

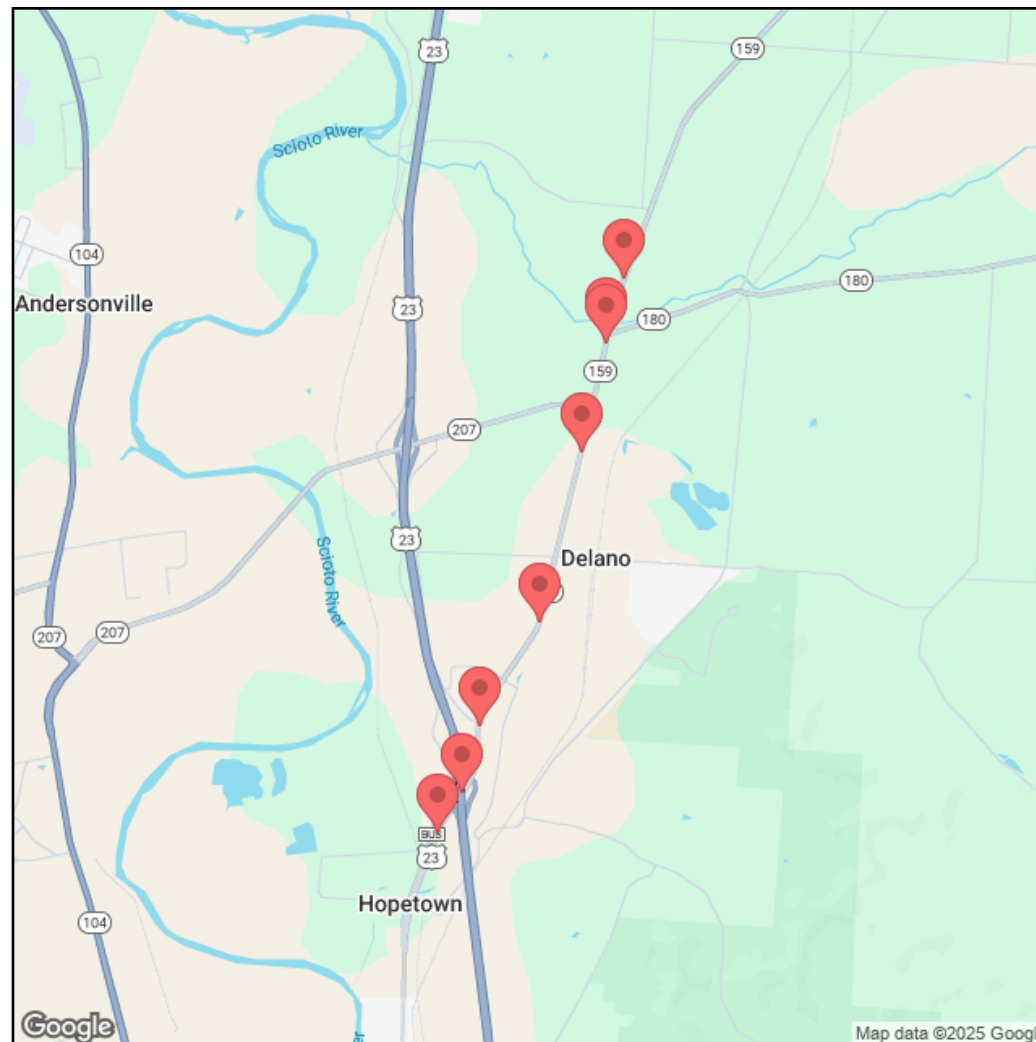
*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

Segment Information

Segment ID	LRS ID	BMP	EMP	Length	Latitude	Longitude
2258748	SROSSR00159**C	3.325	3.663	0.338	-82.9721798817797	39.3844565654993
2258750	SROSSR00159**C	3.663	3.858	0.195	-82.9696312456714	39.3877504488697
2258751	SROSSR00159**C	3.858	4.461	0.603	-82.967803615489	39.3931754564414
2258756	SROSSR00159**C	4.461	5.230	0.769	-82.9613984298433	39.4016824654511
2258759	SROSSR00159**C	5.230	6.450	1.220	-82.9569905043637	39.415686578369
2258765	SROSSR00159**C	6.450	6.496	0.046	-82.9543918818108	39.424563690391
2258766	SROSSR00159**C	6.496	6.525	0.029	-82.9543597845233	39.4250994198794
2258767	SROSSR00159**C	6.525	7.184	0.659	-82.9523961188765	39.4297777554986

Forecast Information

Segment ID	2025 AADT	2045 AADT	DHV-30	K%	D%	T24%	TD%
2258748	18,000	18,500	2,400	13.2	59.3	8	7
2258750	18,000	18,500	2,400	13.2	59.3	8	7
2258751	17,500	17,500	2,500	14.5	58.9	6	3
2258756	7,900	7,900	1,200	15.5	69.2	8	6
2258759	7,900	7,900	1,200	15.5	69.2	8	6
2258765	7,900	7,900	1,200	15.5	69.2	8	6
2258766	7,900	7,900	1,200	15.5	69.2	8	6
2258767	7,100	8,100	1,100	13.2	53.2	8	7



Definitions:

- o AADT – Annual Average Daily Traffic
- o DHV30 – Design Hour Volume for 30th highest hour of the year
- o $DHV30 = K * AADT$
- o K % – Design Hour Factor
- o D % – Peak Direction Factor
- o T24 % – Percent Daily Trucks
- o TD % – Percent Design Hour Trucks

Forecast Segment ID	Route	BMP	EMP
2258748	SROSSR00159**C	3.325	3.663

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 13.2	7	17,000	Average	0.100	0.100
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
18,500	◆ 59.3	6	1,500	Average	0.700	0.700

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	15,837	1,685	17,522

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
1164	25063	1278	2329	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.36	1.09	0	0	14,835	1,616	15,260	1,666
2	-0.23	1.15	3	4	15,299	1,655	15,837	1,685
3	-0.99	1.27	0	0	11,669	1,685	12,505	1,726
4	-0.71	1.25	5	4	13,405	1,694	13,711	1,720
5	-1.00	1.55	0	0	11,620	1,788	12,461	1,819
6	-0.74	1.34	5	4	13,275	1,727	13,593	1,750

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	7,333	19,299	946	1,380	0.25	0.25
2	RAT	1.68	20,095	3.70	1,605	0.38	0.91
3	MRAT	1.11	20,017	1.24	1,562	0.37	0.79
4	RAF		19,658		1,471	0.31	0.52
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Average		Difference		0.300		0.300	

Method 1 - 4 Volume

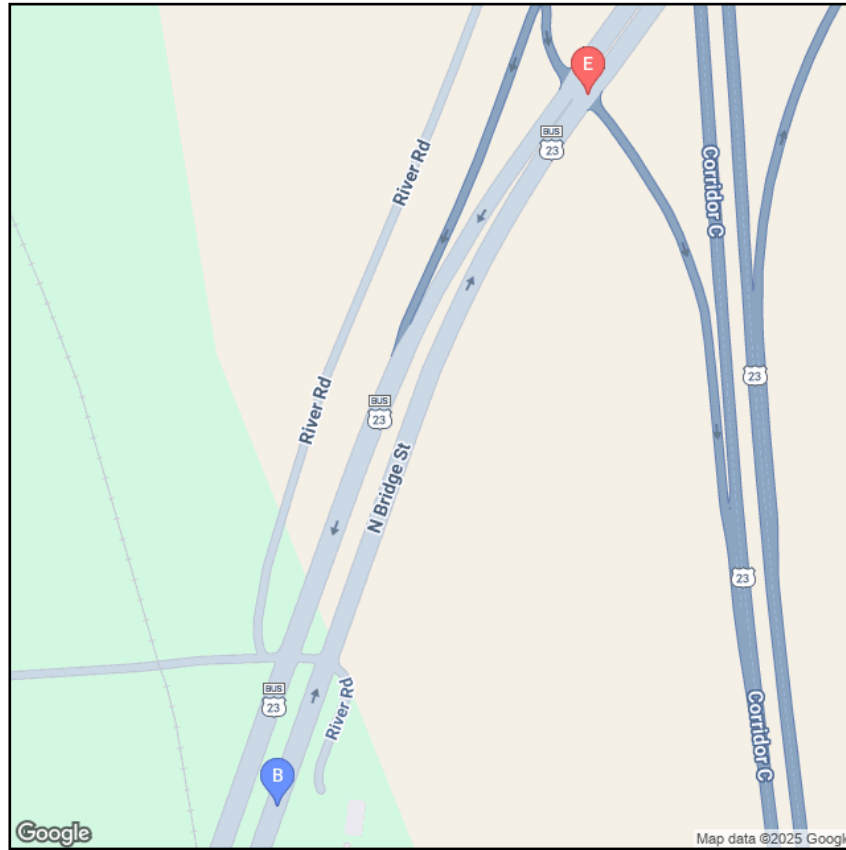
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
17919	18490	1380	1605	19299	20095

Process Flag:	Adjusted model to counts with process per ODOT 255 spreadsheet
Comment:	No Comment

Historical Count

Year	All	Cars	Trucks
2010	17,300	16,230	1,070
2013	18,910	17,810	1,099
2015	19,396	18,267	1,128
2018	17,393	16,303	1,090
2021	16,763	15,577	1,186
* 2024	18,126	16,829	1,297

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258748	SROSSR00159**C	3.325	3.663	0.338	18,000	18,500	2400	13.2	59.3	8	7

Forecast Segment ID	Route	BMP	EMP
2258750	SROSSR00159**C	3.663	3.858

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 13.2	7	17,000	Average	● 0.000	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
18,500	◆ 59.3	6	1,500	Average	0.600	0.600

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	15,837	1,685	17,522

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
1164	25063	1278	2329	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.36	1.09	0	0	14,835	1,616	15,260	1,666
2	-0.23	1.15	3	4	15,299	1,655	15,837	1,685
3	-0.99	1.27	0	0	11,669	1,685	12,505	1,726
4	-0.71	1.25	5	4	13,405	1,694	13,711	1,720
5	-1.00	1.55	0	0	11,620	1,788	12,461	1,819
6	-0.74	1.34	5	4	13,275	1,727	13,593	1,750

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	12,384	19,066	1,125	1,307	0.21	0.03
2	RAT	3.16	21,095	7.52	1,369	0.66	0.21
3	MRAT	1.16	20,809	1.06	1,365	0.60	0.20
4	RAF		19,938		1,336	0.41	0.12
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Difference		Difference		0.200		0.000	

Method 1 - 4 Volume

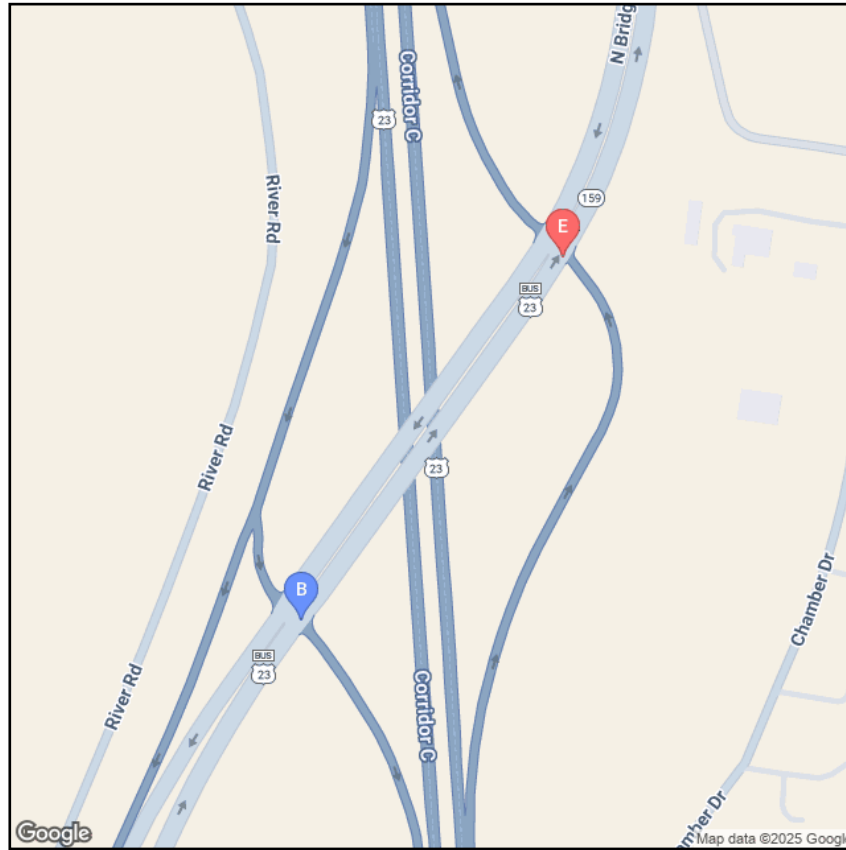
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
17759	19726	1307	1369	19066	21095

Process Flag:	Adjusted model to counts with process per ODOT 255 spreadsheet
Comment:	No Comment

Historical Count

Year	All	Cars	Trucks
2010	17,300	16,230	1,070
2013	18,910	17,810	1,099
2015	19,396	18,267	1,128
2018	17,393	16,303	1,090
2021	16,763	15,577	1,186
* 2024	18,126	16,829	1,297

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258750	SROSSR00159**C	3.663	3.858	0.195	18,000	18,500	2400	13.2	59.3	8	7

Forecast Segment ID	Route	BMP	EMP
2258751	SROSSR00159**C	3.858	4.461

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 14.5	6	16,000	Average	● -0.600	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
17,000	◆ 58.9	3	1,000	Model	0.100	0.100

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	10,209	523	10,732

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
3349	28001	-634	2010	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.06	-0.08	0	0	17,541	1,134	16,689	992
2	-1.46	-1.86	1	1	10,094	595	10,209	523
3	-1.46	-1.86	0	0	10,094	595	10,209	523
4	-1.48	-2.57	4	5	10,247	327	10,125	337
5	-1.32	-1.97	0	0	10,751	562	10,803	494
6	-1.59	-2.63	4	5	9,712	307	9,628	319

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	5,360	18,723	648	1,025	0.30	0.05
2	RAT	1.44	19,291	2.78	1,048	0.42	0.14
3	MRAT	1.11	19,236	1.04	1,047	0.41	0.13
4	RAF		18,980		1,036	0.35	0.09
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Average		Difference		0.400		0.100	

Method 1 - 4 Volume

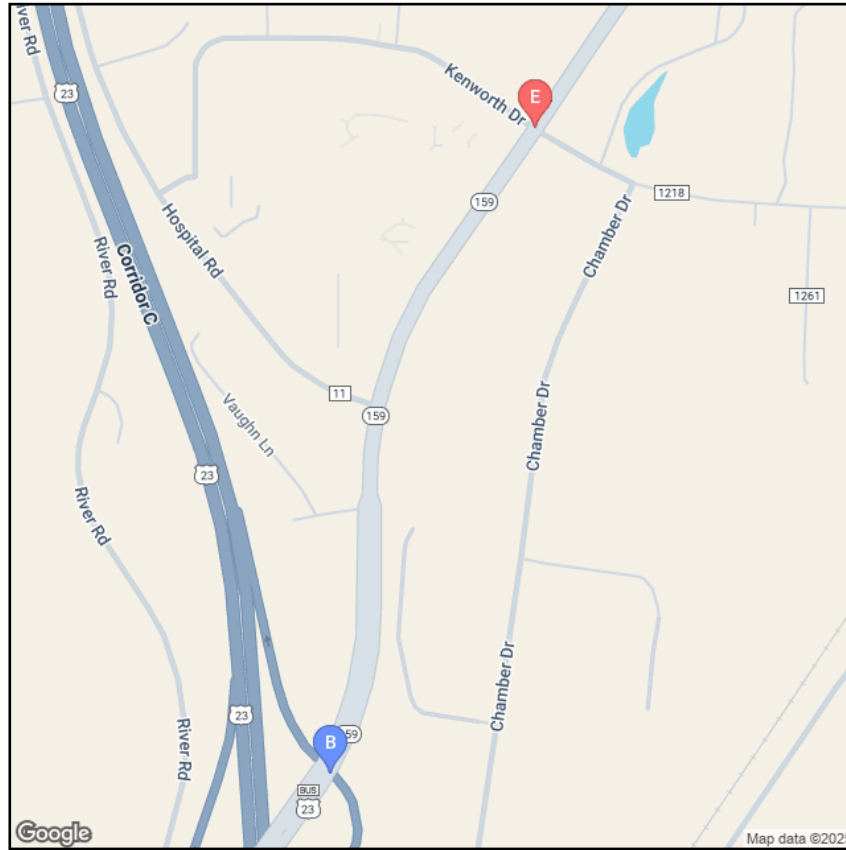
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
17698	18243	1025	1048	18723	19291

Process Flag:	Adjusted model to counts with process per ODOT 255 spreadsheet
Comment:	No Comment

Historical Count

Year	All	Cars	Trucks
2010	15,740	14,750	990
2013	20,390	19,108	1,282
2015	20,093	18,829	1,264
2018	17,854	16,731	1,123
2021	18,708	17,427	1,281
* 2024	17,444	16,432	1,012

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258751	SROSSR00159**C	3.858	4.461	0.603	17,500	17,500	2500	14.5	58.9	6	3

Forecast Segment ID	Route	BMP	EMP
2258756	SROSSR00159**C	4.461	5.230

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 15.5	8	7,300	Average	● -0.400	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
7,920	◆ 69.2	6	620	Average	● -1.100	0.000

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
4	4,758	259	5,017

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-1594	10021	-835	1846	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.64	1.15	0	0	6,173	884	6,097	809
2	-0.46	-2.30	3	1	6,447	241	6,438	250
3	-1.72	-2.30	0	0	3,817	241	4,047	250
4	-1.34	-2.25	5	4	4,841	224	4,758	259
5	-2.25	-3.46	0	0	2,688	33	3,027	62
6	-1.90	-2.77	5	4	3,680	133	3,705	175

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	-4,145	9,218	259	636	0.67	0.08
2	RAT	0.66	8,779	1.71	645	0.43	0.14
3	MRAT	1.11	8,821	1.04	645	0.45	0.14
4	RAF		9,020		640	0.56	0.10
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Average		Average		0.600		0.100	

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
8134	8582	636	645	8770	9227

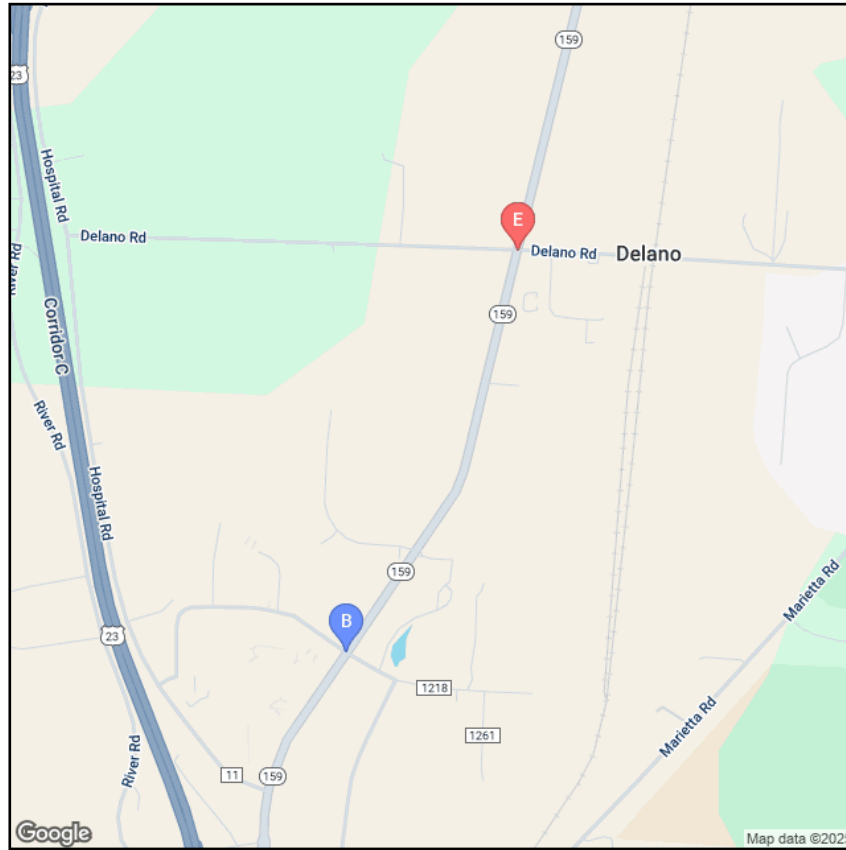
Process Flag: Adjusted model to counts with process per ODOT 255 spreadsheet

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	7,680	7,290	390
2013	8,920	8,197	722
2015	9,349	8,591	757
2018	8,863	8,048	815
2021	7,494	6,924	570
* 2024	7,939	7,316	623

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258756	SROSSR00159**C	4.461	5.230	0.769	7,900	7,900	1200	15.5	69.2	8	6

Forecast Segment ID	Route	BMP	EMP
2258759	SROSSR00159**C	5.230	6.450

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 15.5	8	7,300	Average	● -0.700	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
7,920	◆ 69.2	6	620	Average	● -1.000	0.000

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
4	4,758	259	5,017

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-1594	10021	-835	1846	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.64	1.15	0	0	6,173	884	6,097	809
2	-0.46	-2.30	3	1	6,447	241	6,438	250
3	-1.72	-2.30	0	0	3,817	241	4,047	250
4	-1.34	-2.25	5	4	4,841	224	4,758	259
5	-2.25	-3.46	0	0	2,688	33	3,027	62
6	-1.90	-2.77	5	4	3,680	133	3,705	175

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	5,702	8,029	395	654	0.03	0.19
2	RAT	3.55	8,259	2.73	708	0.12	0.52
3	MRAT	1.04	8,250	1.14	702	0.12	0.49
4	RAF		8,140		678	0.08	0.34
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Difference		Difference		0.000		0.200	

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
7375	7551	654	708	8029	8259

Process Flag: Adjusted model to counts with process per ODOT 255 spreadsheet

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	7,680	7,290	390
2013	8,920	8,197	722
2015	9,349	8,591	757
2018	8,863	8,048	815
2021	7,494	6,924	570
* 2024	7,939	7,316	623

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258759	SROSSR00159**C	5.230	6.450	1.220	7,900	7,900	1200	15.5	69.2	8	6

Forecast Segment ID	Route	BMP	EMP
2258765	SROSSR00159**C	6.450	6.496

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 15.5	8	7,300	Average	● -0.500	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
7,920	◆ 69.2	6	620	Average	● -1.100	0.000

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
4	4,758	259	5,017

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-1594	10021	-835	1846	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.64	1.15	0	0	6,173	884	6,097	809
2	-0.46	-2.30	3	1	6,447	241	6,438	250
3	-1.72	-2.30	0	0	3,817	241	4,047	250
4	-1.34	-2.25	5	4	4,841	224	4,758	259
5	-2.25	-3.46	0	0	2,688	33	3,027	62
6	-1.90	-2.77	5	4	3,680	133	3,705	175

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	1,002	8,736	215	631	0.41	0.05
2	RAT	1.14	8,852	1.53	635	0.47	0.07
3	MRAT	1.11	8,840	1.02	635	0.47	0.07
4	RAF		8,788		633	0.44	0.06
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Average		Average		0.400		0.100	

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
8105	8217	631	635	8736	8852

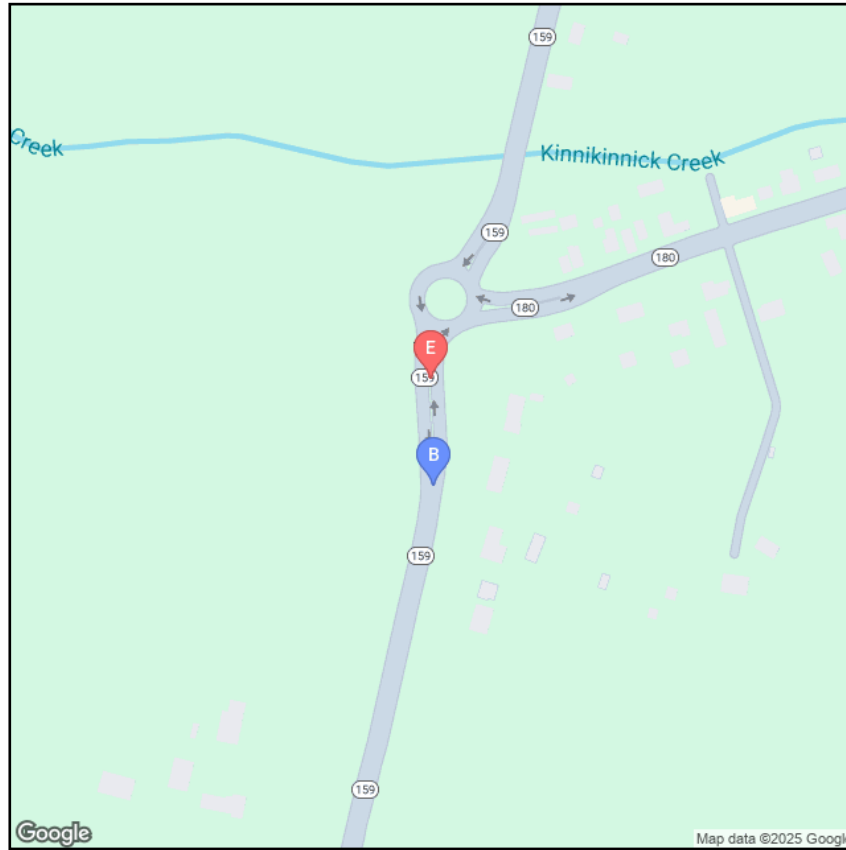
Process Flag: Adjusted model to counts with process per ODOT 255 spreadsheet

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	7,680	7,290	390
2013	8,920	8,197	722
2015	9,349	8,591	757
2018	8,863	8,048	815
2021	7,494	6,924	570
* 2024	7,939	7,316	623

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258765	SROSSR00159**C	6.450	6.496	0.046	7,900	7,900	1200	15.5	69.2	8	6

Forecast Segment ID	Route	BMP	EMP
2258766	SROSSR00159**C	6.496	6.525

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 15.5	8	7,300	Count	● -1.300	0.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
7,920	◆ 69.2	6	620	Count	● -2.300	0.000

● Warning: The growth rate was negative and was capped.

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
4	4,758	259	5,017

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-1594	10021	-835	1846	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-0.64	1.15	0	0	6,173	884	6,097	809
2	-0.46	-2.30	3	1	6,447	241	6,438	250
3	-1.72	-2.30	0	0	3,817	241	4,047	250
4	-1.34	-2.25	5	4	4,841	224	4,758	259
5	-2.25	-3.46	0	0	2,688	33	3,027	62
6	-1.90	-2.77	5	4	3,680	133	3,705	175

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
				-999999.000		-999999.000	

Method 1 - 4 Volume

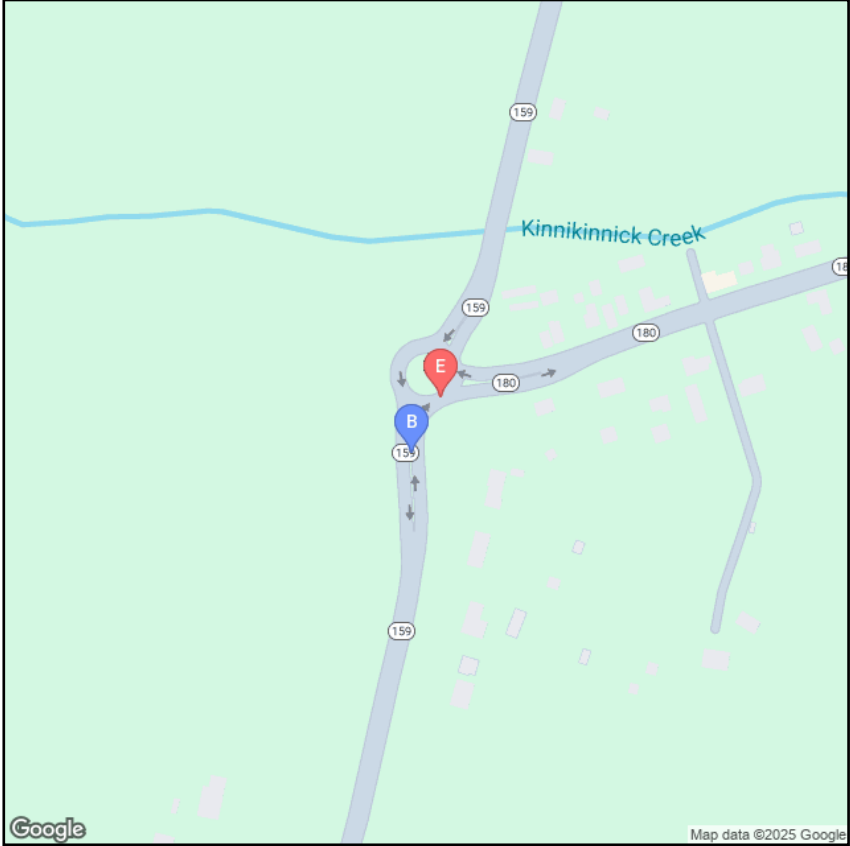
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
0	0	0	0	0	0

Process Flag:	No model vloumes were joined to TSR segment
Comment:	No Comment

Historical Count

Year	All	Cars	Trucks
2010	7,680	7,290	390
2013	8,920	8,197	722
2015	9,349	8,591	757
2018	8,863	8,048	815
2021	7,494	6,924	570
* 2024	7,939	7,316	623

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258766	SROSSR00159**C	6.496	6.525	0.029	7,900	7,900	1200	15.5	69.2	8	6

Forecast Segment ID	Route	BMP	EMP
2258767	SROSSR00159**C	6.525	7.184

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 13.2	6	7,600	Model	0.600	0.600
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
8,300	◆ 53.2	5	700	Model	2.200	2.200

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
1	7,343	766	8,109

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-3578	17352	183	1150	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.45	2.85	0	0	6,876	814	7,343	766
2	0.67	4.62	3	6	7,179	1,020	7,720	968
3	-0.65	2.07	0	0	4,714	712	5,462	677
4	-0.69	4.06	4	6	4,827	951	5,399	905
5	-0.22	1.71	0	0	5,531	667	6,200	636
6	0.27	1.35	5	5	6,744	606	7,030	595

Adjustment Info

ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	4,820	8,305	2	696	0.60	2.24
2	RAT	3.19	11,133	1.00	697	2.26	2.25
3	MRAT	1.59	10,087	1.58	696	1.65	2.24
4	RAF		9,196		696	1.13	2.24
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Difference		Average		0.600		2.200	

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
7609	10436	696	697	8305	11133

Process Flag:

Adjusted model to counts with process per ODOT 255 spreadsheet

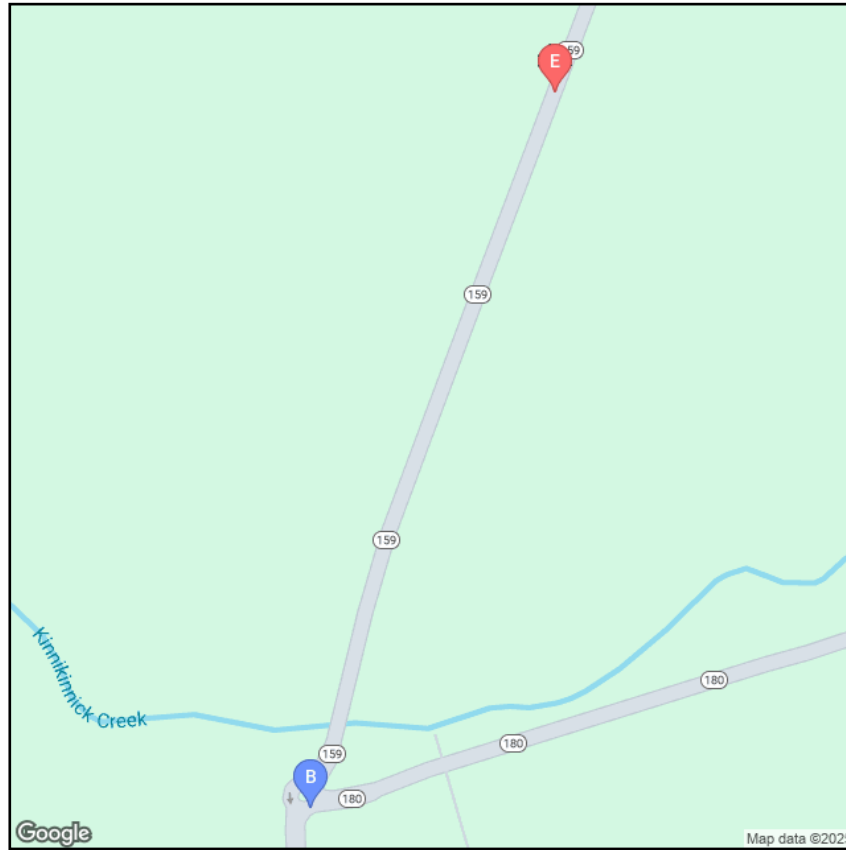
Comment:

No Comment

Historical Count

Year	All	Cars	Trucks
2010	5,280	5,000	280
2013	6,860	6,496	364
2015	7,080	6,705	375
2018	5,776	5,326	450
2021	5,762	5,280	482
* 2024	7,016	6,576	440

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2025 AADT	Yr 2045 AADT	DHV30	K %	D %	T24 %	TD %
2258767	SROSSR00159**C	6.525	7.184	0.659	7,100	8,100	1100	13.2	53.2	8	7