TFMS - Segment Forecast Report

Username	Email	Script Import Date	Script Version	Model Version
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Forecast Summary

Project ID	Project Name	Opening Year	Design Year
122318	JEF SR 43 0.625	2031	2051

Project Description

Rehabilitate two bridges carrying SR 43 Entrance Ramp B over Exit Ramp A and Mainline SR 43.

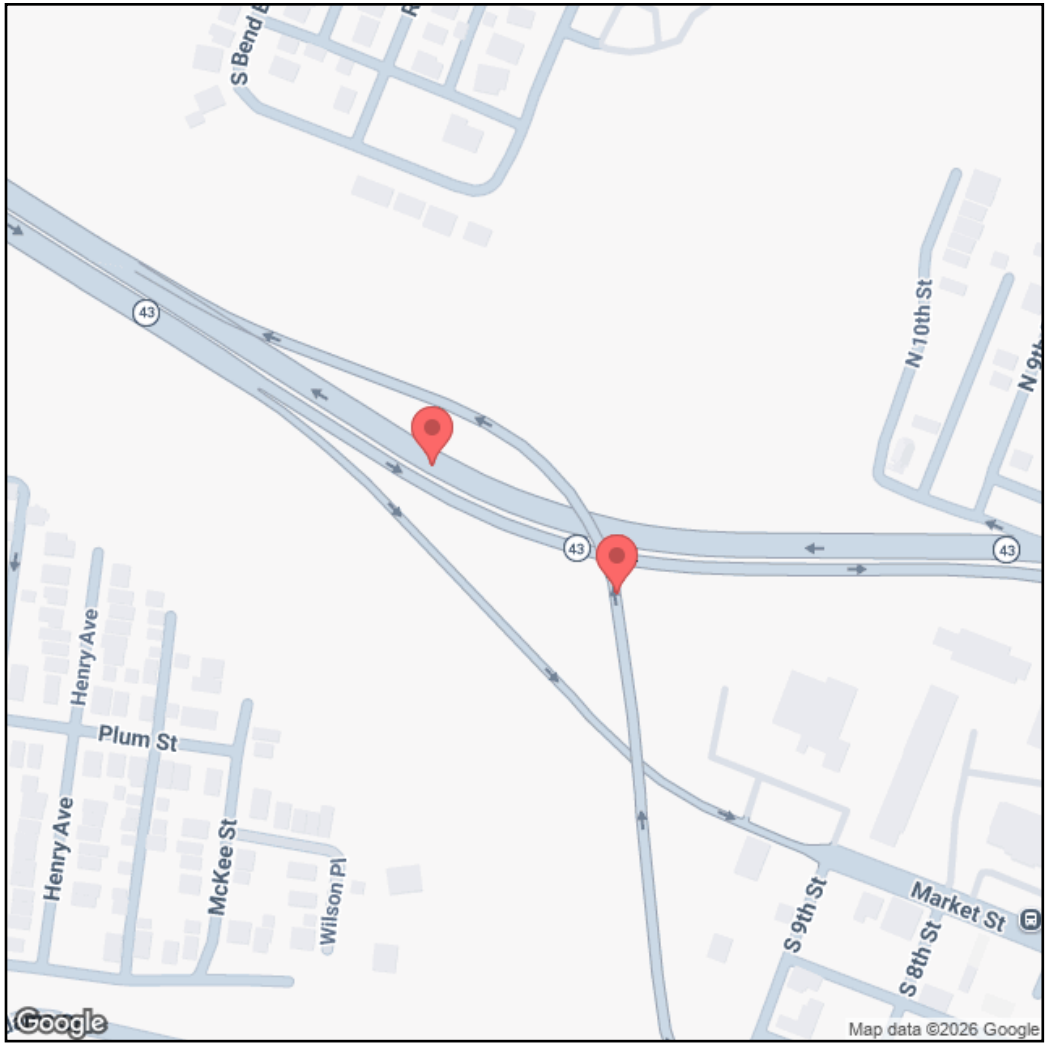
*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

Segment Information

Segment ID	LRS ID	BMP	EMP	Length	Latitude	Longitude
2274314	SJEFRA41091**C	0.000	0.483	0.483	-80.6226527318054	40.3631623028949
2274455	SJEFSR00043**C	0.456	0.951	0.495	-80.6238755099077	40.3638135524532

Forecast Information

Segment ID	2031 AADT	2051 AADT	DHV-30	K%	D%	T24%	TD%
2274314	1,100	1,100	150	15.2	56.0	2	2
2274455	6,900	7,100	900	12.6	51.3	8	11



Definitions:

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

Forecast Segment ID	Route	BMP	EMP
2274314	SJEFRA41091**C	0.000	0.483

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 15.2	2	1,000	Count	● -5.200	0.000
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
1,020	56.0	2	20	Count	● -19.700	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
1	-375	-66	-441

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-4652	2347	-246	100	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-5.23	-19.71	0	0	15	-80	-375	-66
2	-9.37	2.88	1	1	-1,268	28	-1,501	28
3	-9.37	2.88	0	0	-1,268	28	-1,501	28
4	-5.55	3.13	6	4	319	29	-462	29
5	-12.24	4.09	0	0	-2,130	33	-2,280	33
6	-12.95	3.61	5	4	-2,414	31	-2,474	31

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

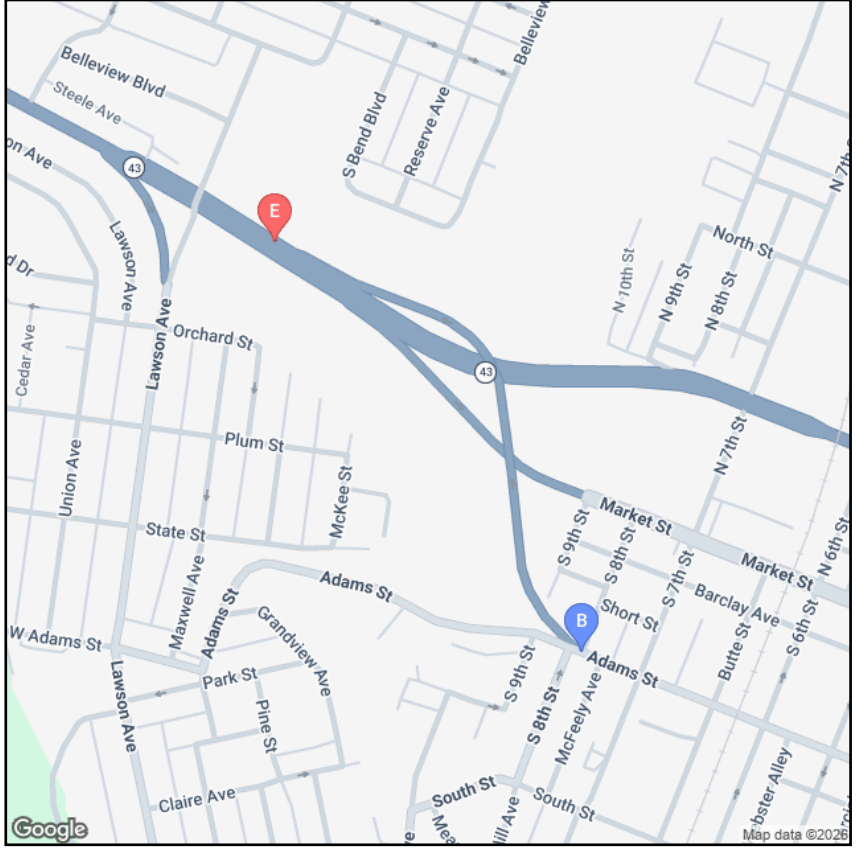
Process Flag: No model vloumes were joined to TSR segment

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2011	1,754	1,670	84
2013	2,160	2,148	11
2015	2,215	2,203	11
2018	2,109	2,099	10
2021	1,751	1,736	15
* 2024	1,061	1,045	16

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2031 AADT	Yr 2051 AADT	DHV30	K %	D %	T24 %	TD %
2274314	SJEFRA41091**C	0.000	0.483	0.483	1,100	1,100	150	15.2	56.0	2	2

Forecast Segment ID	Route	BMP	EMP
2274455	SJEFSR00043**C	0.456	0.951

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	12.6	4	6,600	Average	-1.300	0.000
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
7,140	51.3	5	540	Average	6.700	4.000

Warning: The growth rate was negative and was capped.

Warning: The truck growth rate was exceeded the maximum and was capped at 6.700%

K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
1	1,975	1,174	3,149

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-7395	24566	-5937	6453	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	-2.69	13.07	0	0	1,834	1,576	1,975	1,174
2	-2.54	9.69	4	4	2,330	1,104	2,221	940
3	-3.34	10.72	0	0	562	1,389	868	1,011
4	-3.38	11.74	4	4	710	1,264	787	1,082
5	-3.35	-2.16	0	0	543	399	851	117
6	-4.07	10.89	4	4	-544	1,201	-378	1,023

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	6,726	7,102	240	297	0.14	0.43
2	RAT	66.85	25,137	10.01	571	10.55	4.38
3	MRAT	3.68	12,001	2.14	425	2.94	2.28
4	RAF		9,551		361	1.54	1.35

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Difference	Difference	0.100	0.400

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
6805	24566	297	571	7102	25137

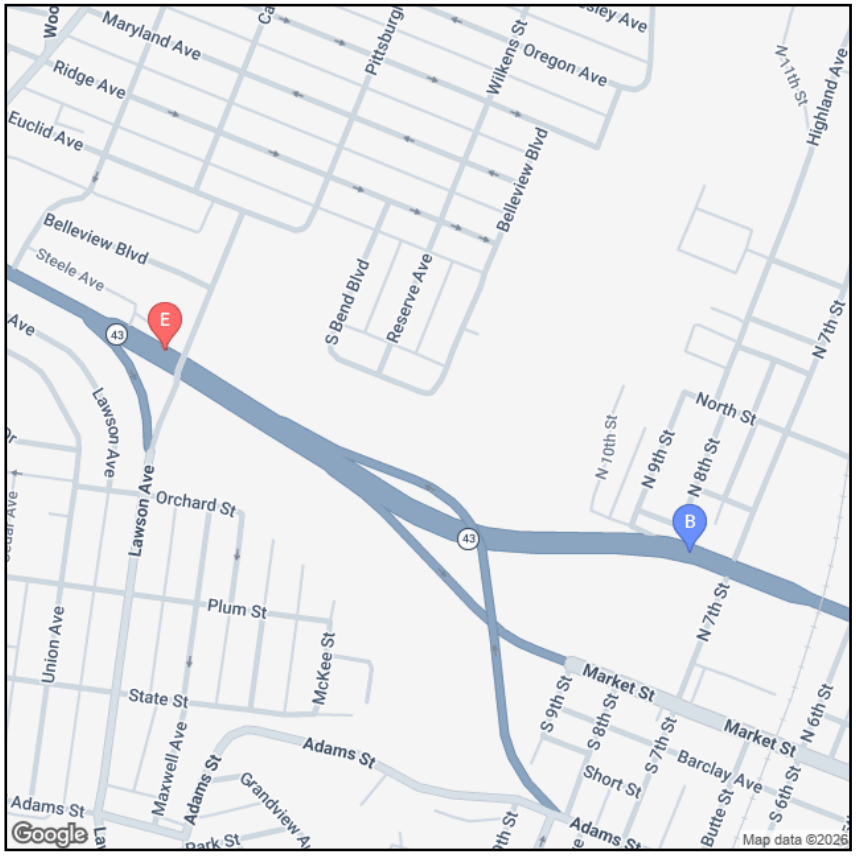
Process Flag: Adjusted model to counts with process per ODOT 255 spreadsheet

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	8,600	8,480	120
2013	8,750	8,658	91
2015	8,975	8,880	94
2018	7,893	6,577	1,316
2021	7,570	6,946	624
* 2024	6,828	6,561	267

* Pivot Point



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2274455	SJEFSR00043**C	0.456	0.951	0.495	6,900	7,100	900	12.6	51.3	8	11