

# 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
121424	WYA US 23 3.47	2028	2048

### Project Description

Build a new interchange at the intersection of US 23 and SR 294.Originally programmed as PID 119657.

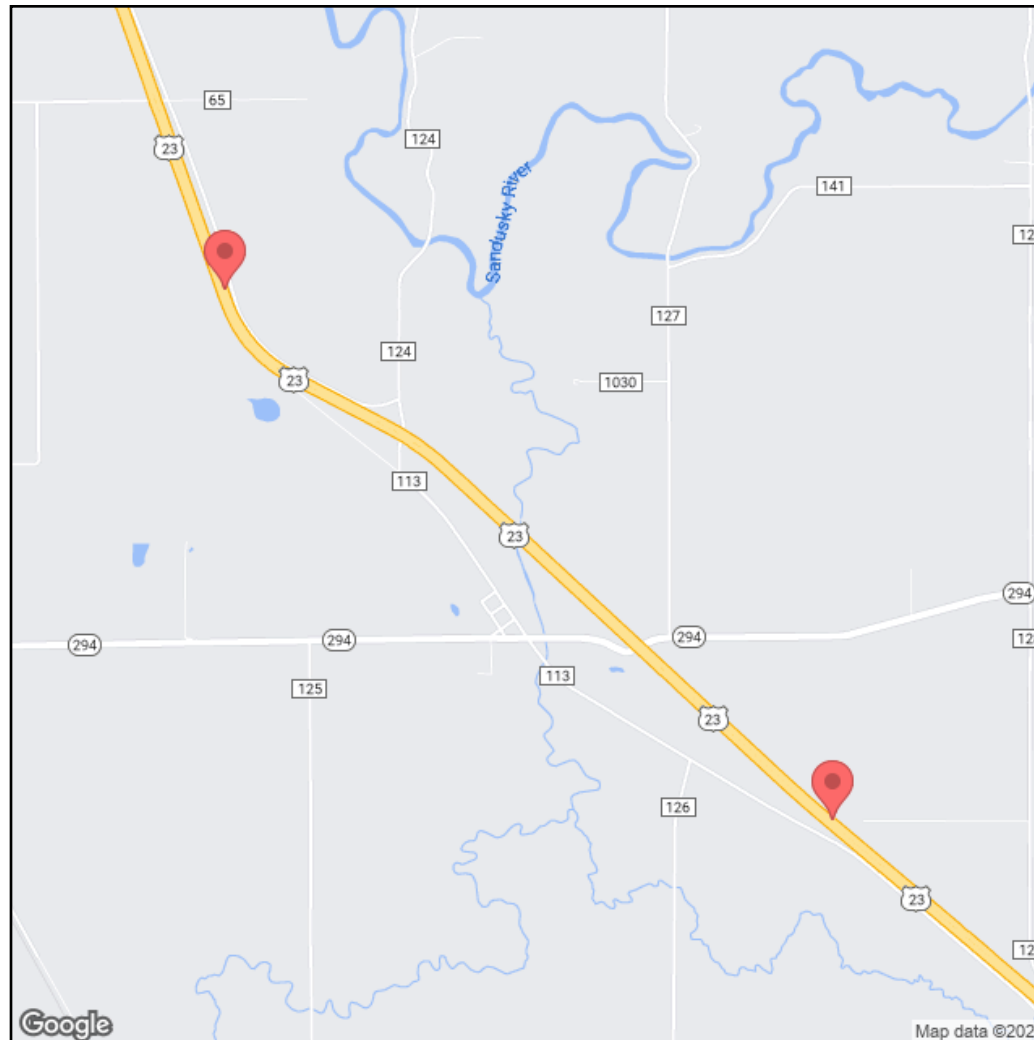
\*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

## Segment Information

Segment ID	LRS ID	BMP	EMP	Length	Latitude	Longitude
1871492	SWYAUS00023**C	2.104	3.535	1.431	-83.1988025290187	40.7312659454979
1871493	SWYAUS00023**C	3.535	6.619	3.084	-83.2309328541583	40.7524981010938

## Forecast Information

Segment ID	2028 AADT	2048 AADT	DHV-30	K%	D%	T24%	TD%
1871492	18,500	22,000	2,900	13.2	53.9	13	11
1871493	17,000	20,000	2,100	10.6	50.2	20	25



### 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
1871492	SWYAUS00023**C	2.104	3.535

## Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 13.2	16	19,000	Average	1.200	1.200
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
21,800	◆ 53.9	14	2,800	Average	● -0.800	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
2	23,921	172	24,093

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
12211	42179	-7900	6953	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	PA Adjustment
1	2.45	-2.92	0	0	24,891	668	24,447	507
2	2.32	-3.35	3	4	24,553	35	23,921	172
3	3.23	-2.04	0	0	28,518	1,452	27,620	1,193
4	2.88	-2.04	3	4	27,121	1,182	26,223	1,192
5	3.38	-4.23	0	0	29,221	-435	28,255	-512
6	3.05	-2.70	5	4	27,278	628	26,895	679

## 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	-130	19,008	-729	4,347	0.04	2.01
2	RAT	0.99	18,996	0.79	4,023	0.11	1.59
3	MRAT	1.10	18,997	1.45	4,123	0.09	1.72
4	RAF		19,003		4,235	0.06	1.86
Adjust Method AADT		Adjust Method BC		Selected PA Growth Rate %		Selected BC Growth Rate %	
Average		Average		0.100		1.900	

### Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
14661	14973	4023	4347	18684	19320

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

## Historical Count

Year	All	Cars	Trucks
2007	15,170	10,760	4,410
2010	13,281	9,921	3,360
2013	13,577	10,142	3,435
2016	17,845	13,384	4,461
2019	17,902	15,020	2,882
* 2022	17,291	14,507	2,784

\* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2028 AADT	Yr 2048 AADT	DHV30	K %	D %	T24 %	TD %
1871492	SWYAUS00023**C	2.104	3.535	1.431	18,500	22,000	2900	13.2	53.9	13	11

Forecast Segment ID	Route	BMP	EMP
1871493	SWYAUS00023**C	3.535	6.619

## Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.6	16	16,000	Average	0.700	0.700
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
20,000	◆ 50.2	21	4,000	Model	1.900	1.900

◆ K/D factors from TCDS were used.

## Regression

Method Number	PA AADT	BC AADT	AADT
2	18,221	-1,188	17,033

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
13404	30145	-11801	4742	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	PA Adjustment
1	1.33	-4.67	0	0	18,420	-542	18,644	-801
2	1.22	-5.20	3	4	18,148	-1,274	18,221	-1,188
3	1.82	-6.43	0	0	20,530	-2,011	20,490	-2,086
4	1.48	-6.43	3	4	19,241	-2,285	19,201	-2,087
5	2.77	-8.36	0	0	24,539	-3,567	24,111	-3,492
6	2.53	-6.63	5	4	23,274	-2,443	23,226	-2,233

## 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	-696	18,101	-890	4,160	0.09	2.13
2	RAT	0.96	18,022	0.75	3,764	0.18	1.59
3	MRAT	1.11	18,030	1.44	3,886	0.15	1.76
4	RAF		18,065		4,023	0.12	1.94

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Average	0.100	1.900

### Method 1 - 4 Volume

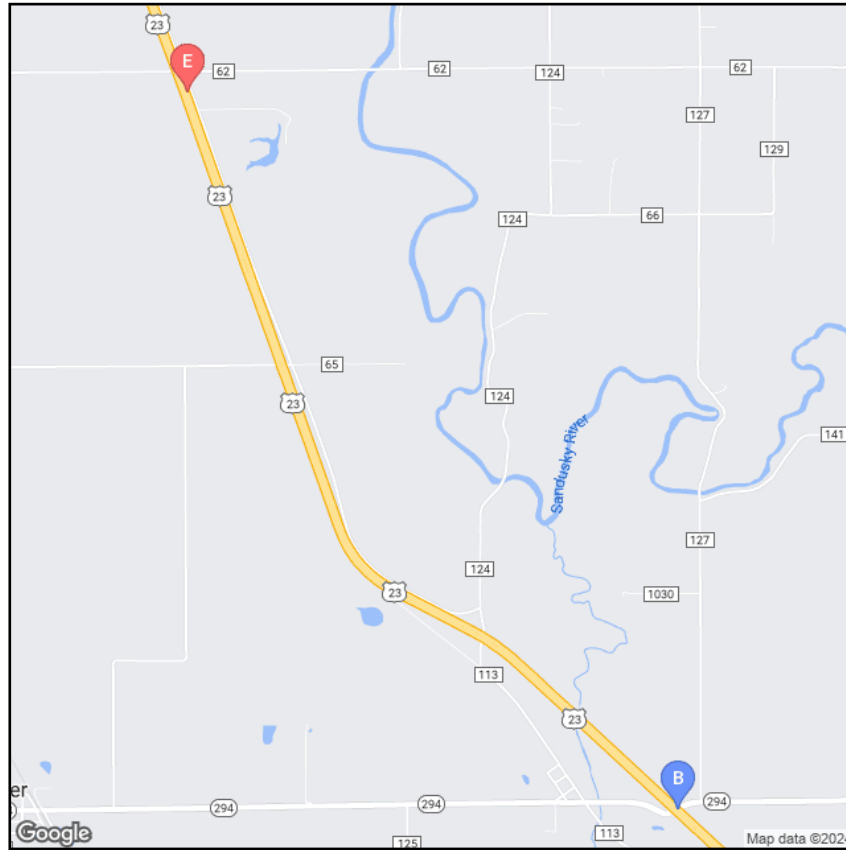
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
13941	14258	3764	4160	17705	18418

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

## Historical Count

Year	All	Cars	Trucks
2007	15,540	11,310	4,230
2010	15,831	11,441	4,390
2013	14,494	10,438	4,055
2016	16,493	11,711	4,781
2019	16,147	13,549	2,598
* 2022	16,190	13,585	2,605

\* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2028 AADT	Yr 2048 AADT	DHV30	K %	D %	T24 %	TD %
1871493	SWYAUS00023**C	3.535	6.619	3.084	17,000	20,000	2100	10.6	50.2	20	25