

# 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
122805	WYA-23-17.52	2028	2048

### Project Description

Construct an RCUT on US 23 at CR 4 and remove the medians at CR 42 and TR 103.

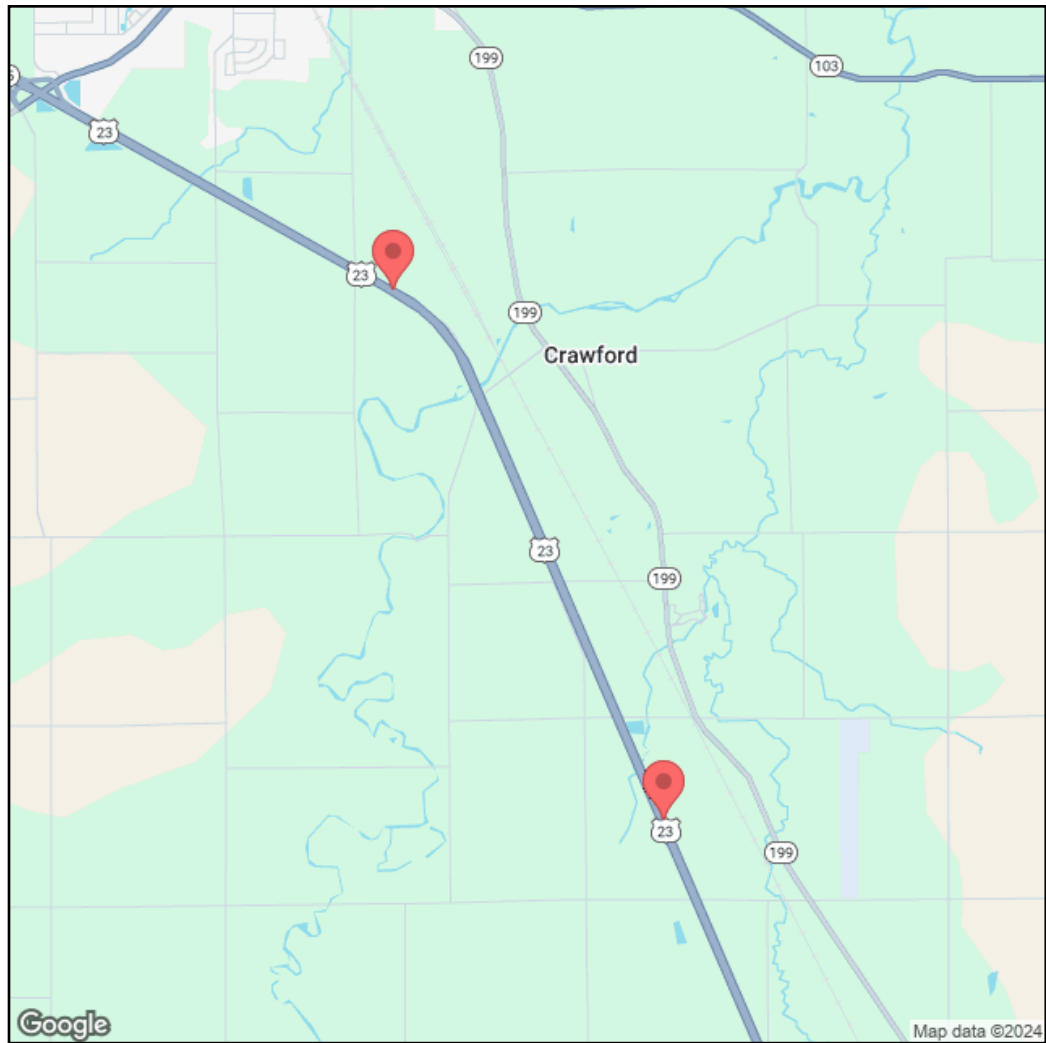
\*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

## Segment Information

Segment ID	LRS ID	BMP	EMP	Length	Latitude	Longitude
1960707	SWYAUS00023**C	15.894	19.326	3.432	-83.3344050787375	40.882501154901
1960708	SWYAUS00023**C	19.326	22.567	3.241	-83.3631054106891	40.9249440249744

## Forecast Information

Segment ID	2028 AADT	2048 AADT	DHV-30	K%	D%	T24%	TD%
1960707	17,000	20,000	2,100	10.5	51.0	13	20
1960708	17,000	20,000	2,100	10.5	51.0	13	20



**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
1960707	SWYAUS00023**C	15.894	19.326

## Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.5	16	17,000	Average	1.000	1.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
19,600	◆ 51.0	24	2,600	Average	● -0.700	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
2	21,063	123	21,186

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
13531	30408	-9736	6603	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	PA Adjustment
1	1.92	-3.14	0	0	20,269	530	20,793	399
2	1.99	-3.53	4	4	20,838	-52	21,063	123
3	2.31	-4.32	0	0	21,920	-424	22,243	-439
4	2.25	-4.02	4	4	21,935	-440	22,044	-224
5	2.66	-5.85	0	0	23,350	-1,608	23,554	-1,525
6	2.37	-4.12	4	4	22,380	-513	22,463	-293

## 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	79	17,875	-1,238	4,344	-0.05	2.42
2	RAT	1.00	17,882	0.68	3,795	0.10	1.64
3	MRAT	1.09	17,882	1.44	3,963	0.06	1.88
4	RAF		17,878		4,153	0.01	2.15

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Average	0.000	2.200

### Method 1 - 4 Volume

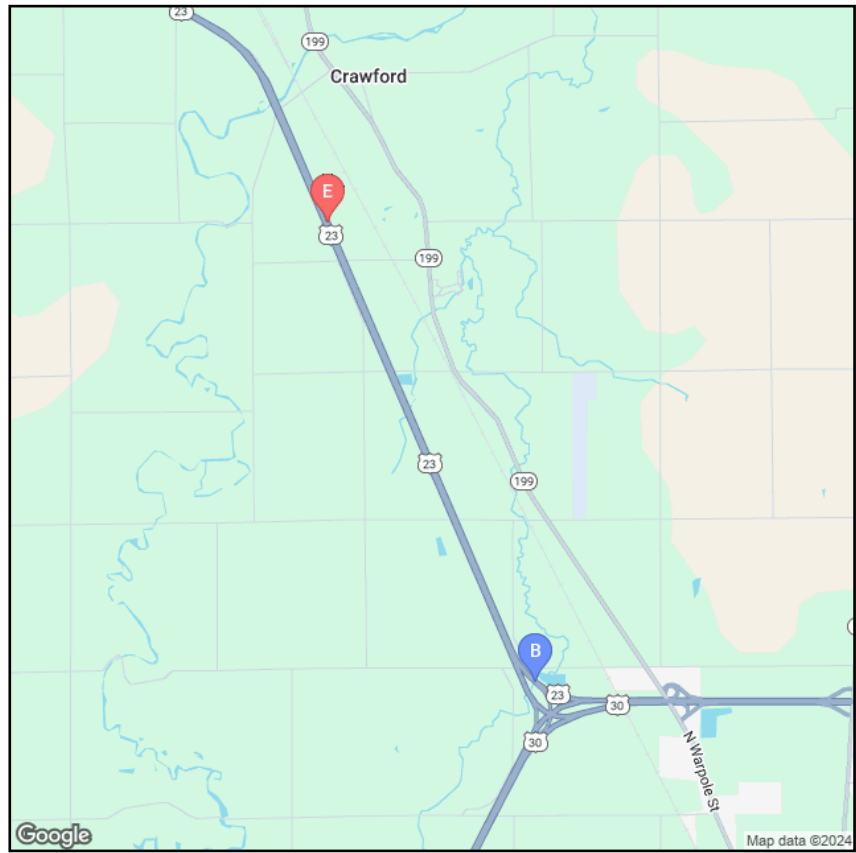
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
13531	14087	3795	4344	17326	18431

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

## Historical Count

Year	All	Cars	Trucks
2010	13,813	10,270	3,543
2013	14,068	10,615	3,452
2014	14,237	10,743	3,493
2017	14,888	10,462	4,427
2020	14,927	12,524	2,403
* 2023	16,333	13,704	2,629

\* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2028 AADT	Yr 2048 AADT	DHV30	K %	D %	T24 %	TD %
1960707	SWYAUS00023**C	15.894	19.326	3.432	17,000	20,000	2100	10.5	51.0	13	20

Forecast Segment ID	Route	BMP	EMP
1960708	SWYAUS00023**C	19.326	22.567

## Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.5	16	17,000	Average	1.000	1.000
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
19,600	◆ 51.0	24	2,600	Average	● -0.700	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
2	21,063	123	21,186

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
13526	30408	-9736	6603	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	PA Adjustment
1	1.92	-3.14	0	0	20,269	530	20,793	399
2	1.99	-3.53	4	4	20,838	-52	21,063	123
3	2.31	-4.32	0	0	21,920	-424	22,243	-439
4	2.25	-4.02	4	4	21,935	-440	22,044	-224
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6	2.37	-4.12	4	4	22,380	-513	22,463	-293

## 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	85	17,877	-1,243	4,351	-0.05	2.43
2	RAT	1.01	17,886	0.68	3,798	0.10	1.65
3	MRAT	1.10	17,885	1.44	3,968	0.06	1.89
4	RAF		17,881		4,159	0.00	2.16

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Average	0.000	2.200

### Method 1 - 4 Volume

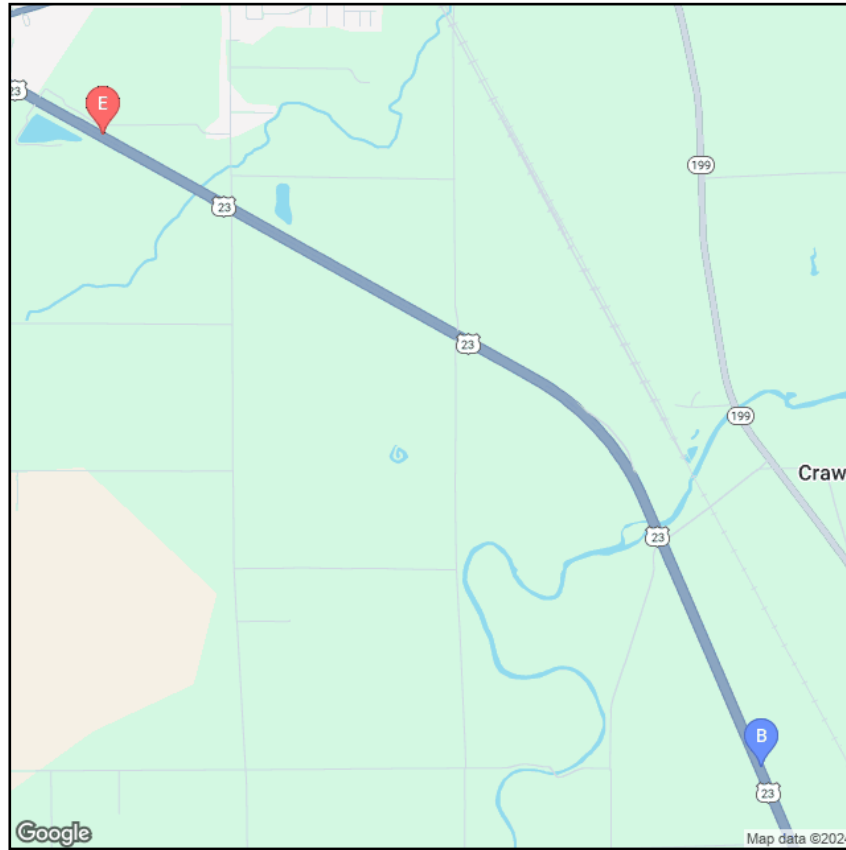
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
13526	14088	3798	4351	17324	18439

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

## Historical Count

Year	All	Cars	Trucks
2010	13,813	10,270	3,543
2013	14,068	10,615	3,452
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1960708	SWYAUS00023**C	19.326	22.567	3.241	17,000	20,000	2100	10.5	51.0	13	20