

TFMS - Segment Forecast Report

Username	Email	Script Import Date	Script Version	Model Version
eric.debolt	eric.debolt@dot.ohio.gov	4/14/2020 5:30:19 PM	2020.001	2024.1900

Forecast Summary

Project ID	Project Name	Opening Year	Design Year
117704	TUS SR 416 3.13	2029	2049

Project Description

Replace bridge carrying SR 416 over an Unnamed Tributary of Tuscarawas River.

*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
1955987	STUSSR00416**C	0.000	3.955	3.955	-81.4324296608835	40.3769503082469

Forecast Information

Segment ID	2029 AADT	2049 AADT	DHV-30	K%	D%	T24%	TD%
1955987	1,300	1,400	200	13.7	62.2	6	4



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
1955987	STUSSR00416**C	0.000	3.955

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 13.7	5	1,300	Model	0.300	0.300
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
1,380	◆ 62.2	3	80	Model	1.500	1.500

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
1	35	-70	-35

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-14700	9097	-1117	555	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	PA Adjustment
1	-3.60	-8.17	0	0	383	-46	35	-70
2	-4.89	-10.09	4	4	-501	-109	-384	-100
3	-7.50	-14.37	0	0	-1,056	-157	-1,229	-167
4	-6.49	-12.96	4	4	-1,080	-159	-902	-145
5	-12.40	-21.65	0	0	-2,787	-281	-2,816	-281
6	-6.59	-13.28	4	4	-1,116	-164	-936	-150

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	897	1,375	42	80	0.29	1.40
2	RAT	3.48	1,666	3.52	137	1.02	5.04
3	MRAT	1.32	1,595	2.36	104	0.90	2.94
4	RAF		1,485		92	0.60	2.17

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Difference	Difference	0.300	1.500

Method 1 - 4 Volume

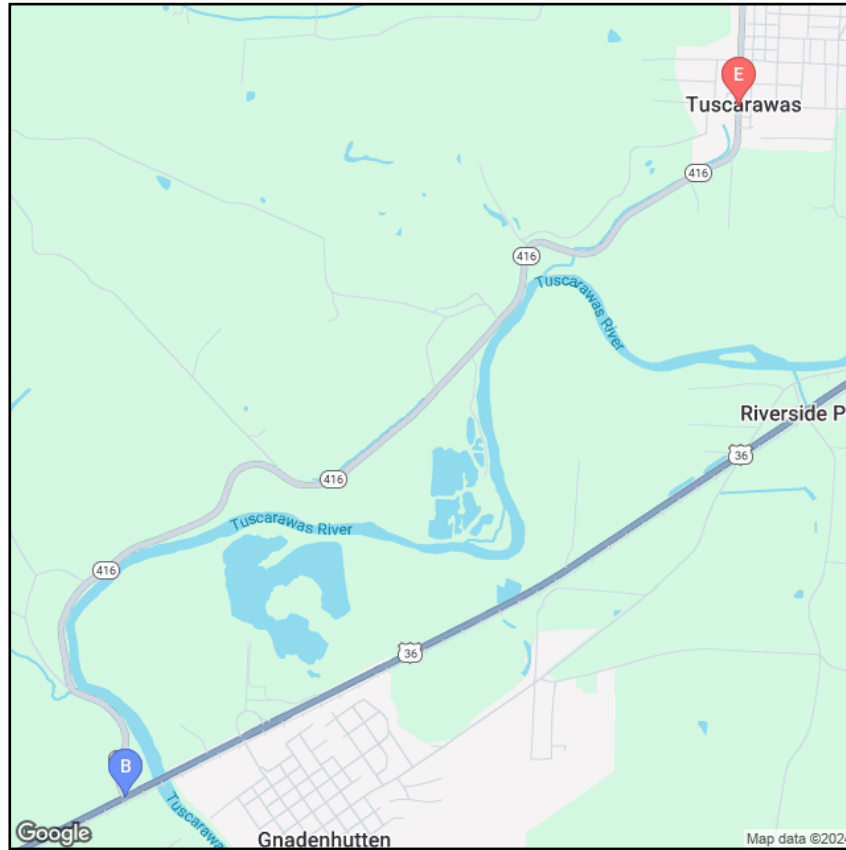
PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
1294	1529	80	137	1374	1666

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

Historical Count

Year	All	Cars	Trucks
2010	1,780	1,670	110
2013	1,910	1,792	118
2014	1,942	1,822	120
2017	3,819	3,583	236
2020	1,032	987	45
* 2023	1,258	1,200	58

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2029 AADT	Yr 2049 AADT	DHV30	K %	D %	T24 %	TD %
1955987	STUSSR00416**C	0.000	3.955	3.955	1,300	1,400	200	13.7	62.2	6	4