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
125042	TUS US 250 12.32	2030	2050

Project Description

Rehabilitate bridge carrying US 250 Eastbound over IR 77, Stone Creek and Ramp E.

*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
2249349	STUSUS00250**C	12.186	12.284	0.098	-81.4795915486148	40.4927456620824
2249350	STUSUS00250**C	12.284	12.546	0.262	-81.4776174673651	40.4906747777666
2249351	STUSUS00250**C	12.546	12.622	0.076	-81.4747855975409	40.4895237531088
2249352	STUSUS00250**C	12.622	14.128	1.506	-81.4615660793783	40.484096677679

Forecast Information

Segment ID	2030 AADT	2050 AADT	DHV-30	K%	D%	T24%	TD%
2249349	23,500	24,000	2,600	10.8	59.6	7	4
2249350	24,000	24,500	2,600	10.8	59.6	7	4
2249351	24,000	25,000	2,700	10.8	59.6	7	5
2249352	24,000	25,000	2,700	10.8	59.6	8	5



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
2249349	STUSUS00250**C	12.186	12.284

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.8	6	23,000	Model	0.100	0.100
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
24,600	◆ 59.6	4	1,600	Model	0.500	0.500

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	23,525	395	23,920

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-2947	43092	-9312	11681	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.07	1.25	0	0	21,400	2,751	22,583	1,878
2	0.23	-2.77	3	5	22,158	552	23,525	395
3	-0.43	0.07	0	0	18,100	2,250	19,711	1,442
4	0.00	-4.64	5	5	21,640	-246	22,170	-291
5	-0.52	-1.64	0	0	17,519	1,555	19,186	814
6	-0.12	-6.03	5	5	20,901	-813	21,500	-806

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	9,967	24,088	839	1,607	0.05	0.52
2	RAT	1.73	24,452	2.45	1,882	0.07	1.26
3	MRAT	1.04	24,440	1.33	1,814	0.08	1.08
4	RAF		24,264		1,710	0.07	0.80

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Difference	0.100	0.500

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
22481	22657	1607	1882	24088	24539

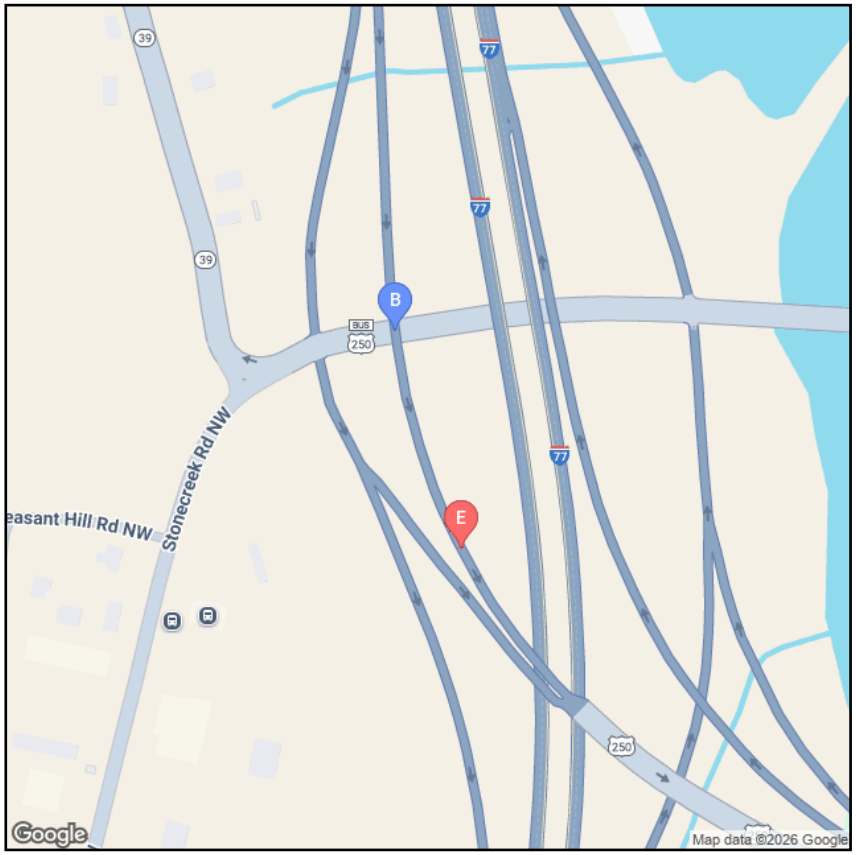
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Historical Count

Year	All	Cars	Trucks
2010	21,590	19,710	1,880
2013	23,512	21,465	2,047
2015	25,200	23,006	2,194
2018	21,835	19,934	1,901
2021	22,520	18,983	3,537
* 2024	23,591	22,174	1,417

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2030 AADT	Yr 2050 AADT	DHV30	K %	D %	T24 %	TD %
2249349	STUSUS00250**C	12.186	12.284	0.098	23,500	24,000	2600	10.8	59.6	7	4

Forecast Segment ID	Route	BMP	EMP
2249350	STUSUS00250**C	12.284	12.546

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.8	6	23,000	Model	0.200	0.200
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
24,600	◆ 59.6	4	1,600	Model	0.600	0.600

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	23,525	395	23,920

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-2947	43092	-9312	11681	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.07	1.25	0	0	21,400	2,751	22,583	1,878
2	0.23	-2.77	3	5	22,158	552	23,525	395
3	-0.43	0.07	0	0	18,100	2,250	19,711	1,442
4	0.00	-4.64	5	5	21,640	-246	22,170	-291
5	-0.52	-1.64	0	0	17,519	1,555	19,186	814
6	-0.12	-6.03	5	5	20,901	-813	21,500	-806

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	8,153	24,473	790	1,642	0.11	0.61
2	RAT	1.53	24,939	2.26	1,927	0.15	1.38
3	MRAT	1.06	24,914	1.36	1,851	0.15	1.18
4	RAF		24,694		1,747	0.13	0.90

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Difference	0.200	0.600

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
22831	23063	1642	1927	24473	24990

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

Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	21,590	19,710	1,880
2013	23,512	21,465	2,047
2015	25,200	23,006	2,194
2018	21,835	19,934	1,901
2021	22,520	18,983	3,537
* 2024	23,591	22,174	1,417

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2030 AADT	Yr 2050 AADT	DHV30	K %	D %	T24 %	TD %
2249350	STUSUS00250**C	12.284	12.546	0.262	24,000	24,500	2600	10.8	59.6	7	4

Forecast Segment ID	Route	BMP	EMP
2249351	STUSUS00250**C	12.546	12.622

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.8	6	23,000	Model	0.200	0.200
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
24,900	◆ 59.6	4	1,900	Model	1.200	1.200

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	23,525	395	23,920

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-2947	43092	-9312	11681	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.07	1.25	0	0	21,400	2,751	22,583	1,878
2	0.23	-2.77	3	5	22,158	552	23,525	395
3	-0.43	0.07	0	0	18,100	2,250	19,711	1,442
4	0.00	-4.64	5	5	21,640	-246	22,170	-291
5	-0.52	-1.64	0	0	17,519	1,555	19,186	814
6	-0.12	-6.03	5	5	20,901	-813	21,500	-806

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	-4,849	25,319	386	1,804	0.23	1.05
2	RAT	0.83	25,024	1.37	1,948	0.16	1.44
3	MRAT	1.06	25,041	1.37	1,909	0.17	1.34
4	RAF		25,180		1,856	0.20	1.19

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Average	0.200	1.200

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
23076	23515	1804	1948	24880	25463

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Comment: No Comment

Historical Count

Year	All	Cars	Trucks
2010	21,590	19,710	1,880
2013	23,512	21,465	2,047
2015	25,200	23,006	2,194
2018	21,835	19,934	1,901
2021	22,520	18,983	3,537
* 2024	23,591	22,174	1,417

* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2030 AADT	Yr 2050 AADT	DHV30	K %	D %	T24 %	TD %
2249351	STUSUS00250**C	12.546	12.622	0.076	24,000	25,000	2700	10.8	59.6	7	5

Forecast Segment ID	Route	BMP	EMP
2249352	STUSUS00250**C	12.622	14.128

Forecast

Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	◆ 10.8	6	23,000	Model	0.200	0.200
AADT	**D%**	**TD % (Existing)**	**BC AADT**	**BC Method**	**BC Growth Rate %**	**BC Calculated Rate %**
24,900	◆ 59.6	4	1,900	Model	1.300	1.300

◆ K/D factors from TCDS were used.

Regression

Method Number	PA AADT	BC AADT	AADT
2	23,525	395	23,920

95% Confidence Min/Max

PA Min	PA Max	BC Min	BC Max	Year
-2947	43092	-9312	11681	2050

Method Number	PA Growth %	BC Growth %	PA Drop Count	BC Drop Count	PA AADT	BC AADT	PA Adjustment	BC Adjustment
1	0.07	1.25	0	0	21,400	2,751	22,583	1,878
2	0.23	-2.77	3	5	22,158	552	23,525	395
3	-0.43	0.07	0	0	18,100	2,250	19,711	1,442
4	0.00	-4.64	5	5	21,640	-246	22,170	-291
5	-0.52	-1.64	0	0	17,519	1,555	19,186	814
6	-0.12	-6.03	5	5	20,901	-813	21,500	-806

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	-8,159	25,268	139	1,891	0.21	1.29
2	RAT	0.74	24,837	1.11	1,943	0.12	1.43
3	MRAT	1.05	24,859	1.37	1,929	0.13	1.39
4	RAF		25,063		1,910	0.17	1.34

Adjust Method AADT	Adjust Method BC	Selected PA Growth Rate %	Selected BC Growth Rate %
Average	Average	0.200	1.300

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
22894	23377	1891	1943	24785	25320

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Historical Count

Year	All	Cars	Trucks
2010	21,590	19,710	1,880
2013	23,512	21,465	2,047
2015	25,200	23,006	2,194
2018	21,835	19,934	1,901
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* Pivot Point



Segment ID	LRS ID	BMP	EMP	Length	Yr 2030 AADT	Yr 2050 AADT	DHV30	K %	D %	T24 %	TD %
2249352	STUSUS00250**C	12.622	14.128	1.506	24,000	25,000	2700	10.8	59.6	8	5