

TFMS - Segment Forecast Report

| Username | Email | Script Import Date | Script Version | Model Version |
|-----------------|------------------------------|-----------------------|----------------|---------------|
| Raymond.Trivoli | Raymond.Trivoli@dot.ohio.gov | 5/15/2025 10:30:27 AM | Initial | 2025.1900 |

Forecast Summary

| Project ID | Project Name | Opening Year | Design Year |
|------------|-----------------|--------------|-------------|
| 107668 | BEL SR 7 11.870 | 2031 | 2051 |

Project Description

Replace deck on existing steel beam bridge carrying SR 7 over railroad. Project will also repair the retaining walls and substructure units. Traffic Data for Southbound Off Ramp

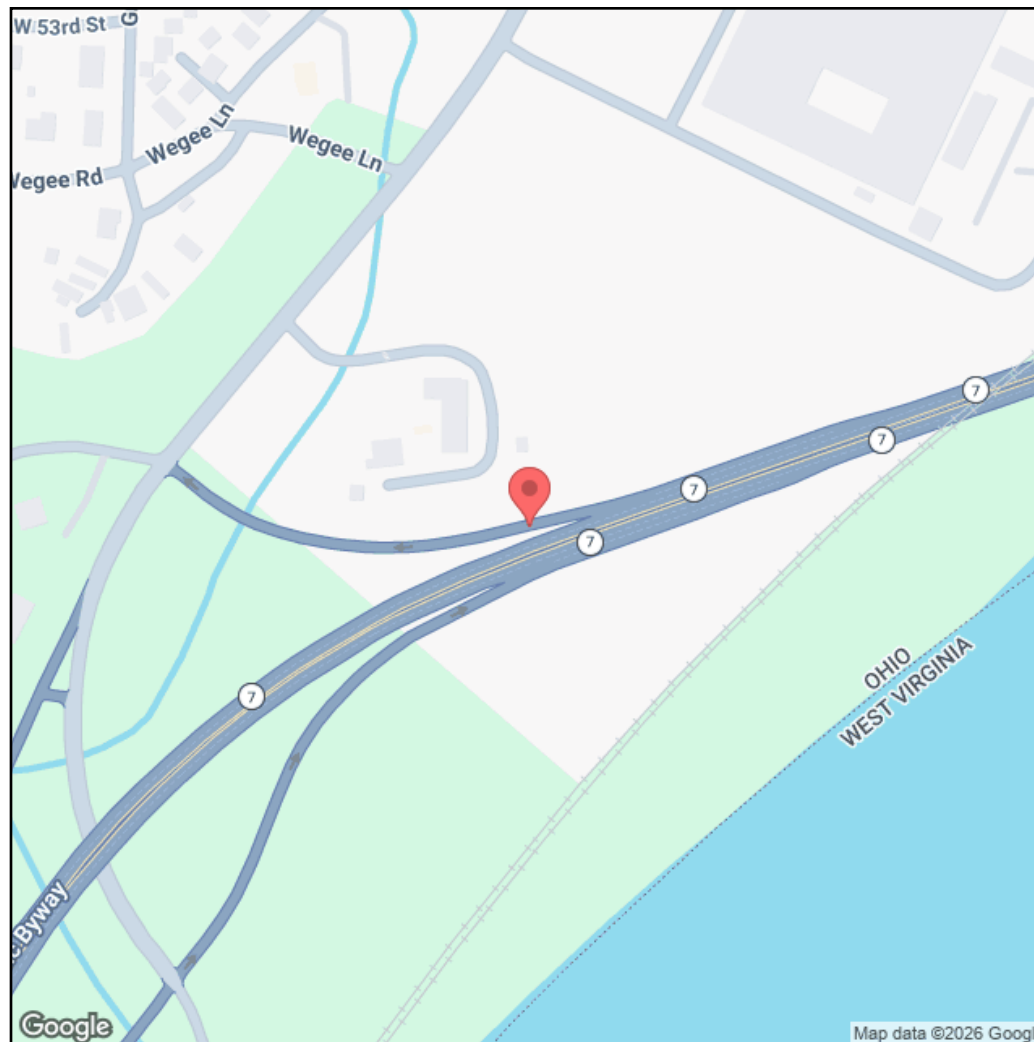
*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

Segment Information

| Segment ID | LRS ID | BMP | EMP | Length | Latitude | Longitude | Local Id |
|------------|----------------|-------|-------|--------|------------------|------------------|----------|
| 2296630 | SBELRA07049**C | 0.000 | 0.272 | 0.272 | -80.757772555576 | 39.9622373921864 | 32707 |

Forecast Information

| Segment ID | 2031 AADT | 2051 AADT | DHV-30 | K% | D% | T24% | TD% |
|------------|-----------|-----------|--------|------|-------|------|-----|
| 2296630 | 500 | 550 | 80 | 13.7 | 100.0 | 10 | 5 |



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 |
| 2296630 | SBELRA07049**C | 0.000 | 0.272 |

Forecast

| Year | K% | T24 % (Existing) | PA AADT | PA Method | PA Growth Rate % | PA Calculated Rate % |
|------|--------|------------------|---------|-----------|------------------|----------------------|
| 2050 | ◆ 13.7 | 8 | 470 | Average | ● -1.000 | 0.000 |
| AADT | D% | TD % (Existing) | BC AADT | BC Method | BC Growth Rate % | BC Calculated Rate % |
| 530 | 100.0 | 4 | 60 | Average | 1.400 | 1.400 |

● 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 | 124 | 72 | 196 |

95% Confidence Min/Max

| PA Min | PA Max | BC Min | BC Max | Year |
|--------|--------|--------|--------|------|
| -811 | 589 | 0 | 110 | 2050 |

| Method Number | PA Growth % | BC Growth % | PA Drop Count | BC Drop Count | PA AADT | BC AADT | PA Adjustment | BC Adjustment |
|---------------|-------------|-------------|---------------|---------------|---------|---------|---------------|---------------|
| 1 | -2.83 | 2.91 | 0 | 0 | 109 | 77 | 124 | 72 |
| 2 | -2.05 | 4.50 | 5 | 6 | 252 | 94 | 219 | 89 |
| 3 | -3.93 | 2.25 | 0 | 0 | -46 | 68 | -10 | 65 |
| 4 | -3.08 | 1.59 | 5 | 5 | 106 | 58 | 94 | 58 |
| 5 | -4.76 | 2.16 | 0 | 0 | -159 | 67 | -111 | 64 |
| 6 | -3.90 | 1.50 | 5 | 5 | -6 | 57 | -7 | 57 |

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 | -322 | 630 | 41 | 41 | 0.98 | 0.00 |
| 2 | RAT | 0.61 | 583 | 0.00 | | 0.93 | -3.85 |
| 3 | MRAT | 1.14 | 589 | 999.00 | 41 | 0.65 | 0.00 |
| 4 | RAF | | 609 | | 41 | 0.81 | 0.00 |

| Adjust Method AADT | Adjust Method BC | Selected PA Growth Rate % | Selected BC Growth Rate % |
|--------------------|------------------|---------------------------|---------------------------|
| Average | Model Ratio | 0.800 | 0.000 |

Method 1 - 4 Volume

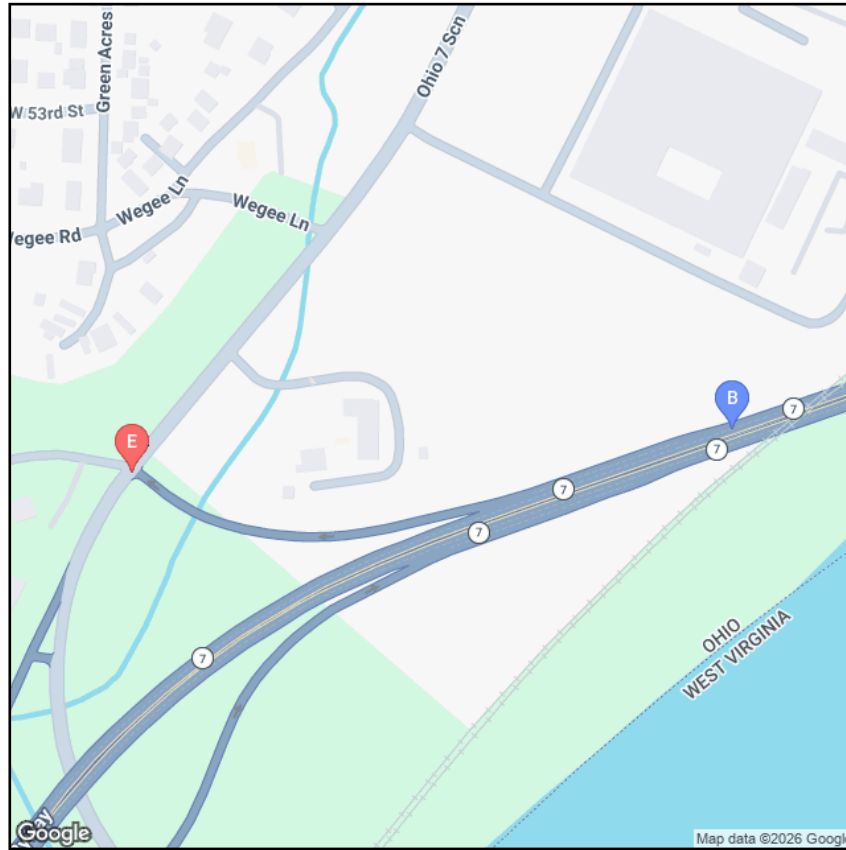
| PA Min Volume | PA Max Volume | BC Min Volume | BC Max Volume | Total Min Volume | Total MaxVolume |
|---------------|---------------|---------------|---------------|------------------|-----------------|
| 548 | 589 | 0 | 41 | 548 | 630 |

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

Historical Count

| Year | All | Cars | Trucks |
|--------|-----|------|--------|
| 2009 | 625 | 601 | 24 |
| 2012 | 664 | 631 | 33 |
| 2015 | 669 | 633 | 35 |
| 2018 | 620 | 582 | 38 |
| 2021 | 451 | 404 | 47 |
| * 2024 | 510 | 469 | 41 |

* Pivot Point



| Segment ID | LRS ID | BMP | EMP | Length | Yr 2031 AADT | Yr 2051 AADT | DHV30 | K % | D % | T24 % | TD % |
|------------|----------------|-------|-------|--------|--------------|--------------|-------|------|-------|-------|------|
| 2296630 | SBELRA07049**C | 0.000 | 0.272 | 0.272 | 500 | 550 | 80 | 13.7 | 100.0 | 10 | 5 |