

A low-angle photograph of the St. Louis Gateway Arch, showing its two massive, white, curved legs rising towards a blue sky with scattered white clouds. The arch's surface has a subtle grid pattern. In the bottom left corner, there are green trees with some yellow flowers.

# Summary of Mid-Year Air Quality Conformity Determination

Amendment to FY 2021 – 2024  
Transportation Improvement Program and  
Related Amendments to Update to  
*Connected2045*

December 10, 2020

# Purpose of Air Quality Conformity

- Projects must be analyzed to determine conformity with state air quality plans prepared for ozone standards
- All projects must be included in the analysis
- Projects not included in the analysis cannot progress/move ahead toward implementation

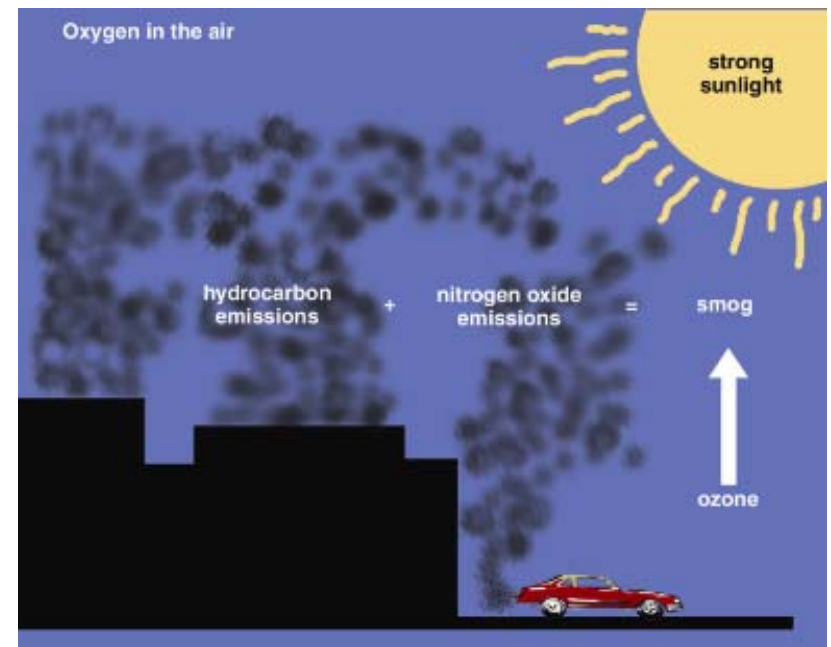


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# What Is Ozone?

- Ground level ozone is formed when hydrocarbons (or volatile organic compounds – VOC) and nitrogen oxides ( $\text{NO}_x$ ) from vehicle exhaust and other industrial processes chemically react with oxygen in the lower atmosphere
- Weather influences formation – strong sunshine, low wind speed and temperature of 85° and higher

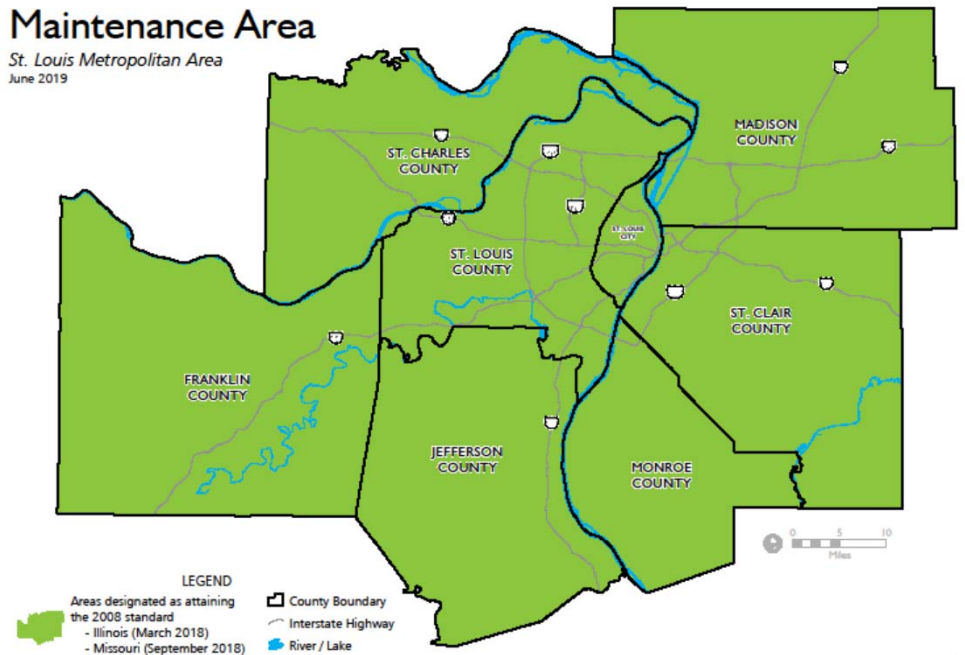


# 2008 Ozone Standard

- EPA has re-designated the eight-county St. Louis region (MO-IL) as being in attainment of this standard
- Considered a maintenance area
- **EPA has not revoked this standard so a Conformity Determination has to be performed for it**

## 2008 Ozone Standard Maintenance Area

St. Louis Metropolitan Area  
June 2019



Source: East-West Gateway Council of Governments



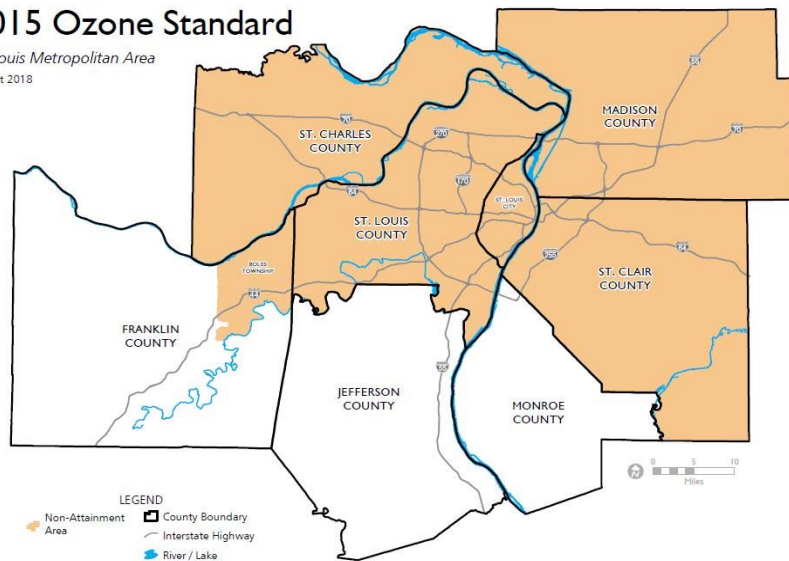
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# 2015 Ozone Standard

## Non-Attainment Area 2015 Ozone Standard

St. Louis Metropolitan Area  
August 2018



Source: East-West Gateway Council of Governments



- In 2018, EPA designated as non-attainment: St. Charles and St. Louis Counties, City of St. Louis and Boles Township in Franklin County in Missouri; and Madison and St. Clair Counties in Illinois
- **As this area is still non-attainment for this standard, Conformity Determination has to be performed for it**



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# Air Quality Conformity Determination Process - Ozone

- Projects included in the Amendment to Transportation Improvement Program (TIP) must pass regional emissions analysis tests for VOC and NO<sub>x</sub> for a series of analysis years out to 2045 (horizon year for *Connected2045* Update)
- Federal and state regulations require that for each analysis year, emissions of VOC and NO<sub>x</sub> resulting from the implementation of the TIP (Action) will be less than or equal to the motor vehicle emissions budgets (budgets) established by Missouri and Illinois



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# Missouri - Regional Emissions Analysis Results

2008 Ozone Standard 5 County Maintenance Area		
Analysis Year	VOC Action≤Budget	NO <sub>x</sub> Action≤Budget
2025	Pass	Pass
2030	Pass	Pass
2035	Pass	Pass
2045	Pass	Pass

- 2025 Action emissions are compared to 2015 Budgets for VOC and NO<sub>x</sub>
- Action emissions for remaining analysis years are compared to 2030 Budgets

2015 Ozone Standard 3 County & 1 Township Non-Attainment Area		
Analysis Year	VOC Action≤Budget	NO <sub>x</sub> Action≤Budget
2020	Pass	Pass
2025	Pass	Pass
2030	Pass	Pass
2035	Pass	Pass
2045	Pass	Pass

- 2020 & 2025 Action emissions are compared to 2015 Budgets
- Action emissions for remaining analysis years are compared to 2030 Budgets

# Illinois - Regional Emissions Analysis Results

2008 Ozone Standard 3 County Maintenance Area		
Analysis Year	VOC Action≤Budget	NO <sub>x</sub> Action≤Budget
2025	Pass	Pass
2030	Pass	Pass
2035	Pass	Pass
2045	Pass	Pass

- 2025 Action emissions are compared to 2025 Budgets for VOC and NO<sub>x</sub>
- Action emissions for remaining analysis years are compared to 2030 Budgets

2015 Ozone Standard 2 County Non-Attainment Area		
Analysis Year	VOC Action≤Budget	NO <sub>x</sub> Action≤Budget
2020	Pass	Pass
2025	Pass	Pass
2030	Pass	Pass
2035	Pass	Pass
2045	Pass	Pass

- 2020 Action emissions are compared to 2008 Budgets
- 2025 Action emissions are compared to 2025 Budgets
- Action emissions for remaining analysis years are compared to 2030 Budgets





# Air Quality Conformity for 1997 Eight-Hour Ozone Standard

- Only to be performed if there is a Regionally Significant Project(s) in Jersey County IL
  - There is no new regionally significant Jersey County project in the Mid-Year Conformity Determination



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# Public Comment

- Public comment period – December 10, 2020 – January 19, 2021
- Draft Conformity Determination and Draft Amendment to FY 2021-2024 TIP is available at [www.ewgateway.org](http://www.ewgateway.org)
- Email comments or questions must be received by 5 pm, Tuesday January 19, 2021. Send them to [TIP@ewgateway.org](mailto:TIP@ewgateway.org)



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