



Air Quality Analysis for Ozone

The following information is for the ambient air monitors operated by the state. This information is reported to the U.S. Environmental Protection Agency's Air Quality System database. The monitoring information provided in the chart below includes the preliminary design values for the ozone National Ambient Air Quality Standard, or NAAQS.

In March 2008, EPA strengthened the ozone NAAQS by setting it at a level of 0.075 parts per million (ppm) measured over 8 hours. In April 2012, EPA finalized nonattainment areas for the 2008 ozone NAAQS. In Missouri, only the St. Louis area was designated as nonattainment with a boundary encompassing St. Louis City and St. Louis, St. Charles, Jefferson, and Franklin Counties. Missouri then developed plans to bring the St. Louis nonattainment area into compliance. In September 2018, EPA formally redesignated the St. Louis area back to attainment of the 2008 ozone NAAQS.

In October 2015 (effective in December 2015), EPA further strengthened the ozone NAAQS by setting it at a level of 0.070 ppm measured over 8 hours. Based on 2015 to 2017 monitoring data, only the West Alton site in the St. Louis area exceeds the standard. On April 30, 2018, EPA designated the City of St. Louis, St. Charles County, St. Louis County, and a portion of Franklin County (Boles Township) in Missouri as nonattainment for the 2015 ozone NAAQS. Jefferson County and the remainder of Franklin County were not included in the nonattainment area for the 2015 ozone NAAQS at that time. Then, in July 2021, as a result of federal litigation, EPA revised the designation for Jefferson County. This action changed Jefferson County from attainment to nonattainment and added it back into the St. Louis nonattainment area. All of Franklin County, with the exception of Boles Township, remains in attainment for the 2015 ozone NAAQS.

For more information, see [Ozone Pollutants and Sources](#) on the Missouri Department of Natural Resources website.



Four Highest Eight-hour Ozone Values

Through April 2, 2023

Year-to-date in parts per billion (ppb)

2023^c

	1st High	2nd High	3rd High	4th High	CV - 70
St. Louis	57	53	51	51	73
	56	49	48	48	77
	57	52	51	51	85
	57	52	52	51	81
	56	51	50	48	81
	55	54	52	51	87
	60	53	53	51	75
Ste. Genevieve					
Bonne Terre	59	53	52	51	85
Southeast					
Farrar	59	54	54	52	79
Kansas City					
Liberty	58	55	52	49	108
RG South	55	55	51	49	87
Rocky Creek	58	56	53	51	73
Trimble	57	54	54	50	85
Watkins Mill	59	56	54	50	82
Springfield					
Fellows Lake	56	56	55	54	87
Hillcrest H.S.	54	53	52	51	84
Outstate					
Alba	55	54	53	51	85
El Dorado Springs	56	52	51	50	88
Finger Lakes	52	52	51	51	98
Mark Twain*	49	49	49	49	105
New Bloomfield	53	52	51	50	93
Savannah	57	51	51	51	91

The critical value (CV) is the current year's fourth-highest value, which, if monitored, could yield a violation of the ozone standard for the most current three year period. (CV = 213 ppb – last year's fourth-highest value – previous year's fourth-highest value).

CV - 70:

*Year-to-date preliminary data. Do not cite or quote.

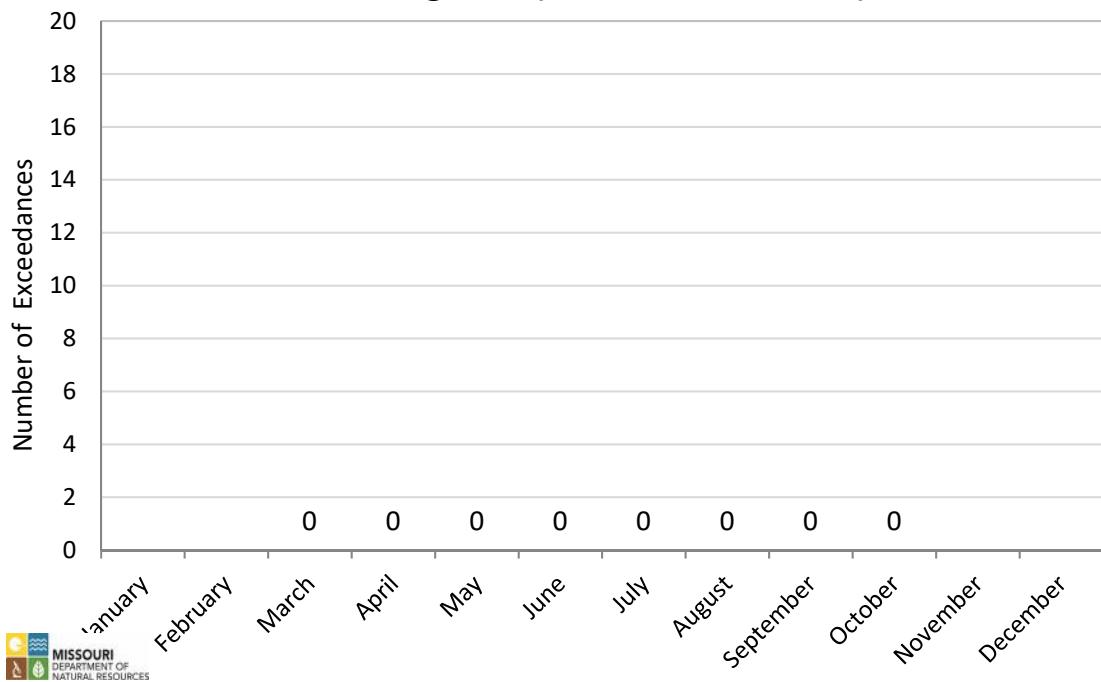
*Year-round ozone monitoring. Blair Street is an Ncore and a PAMS site.

Averages in red and bold recorded from the primary monitor and exceed the 2015 standard.

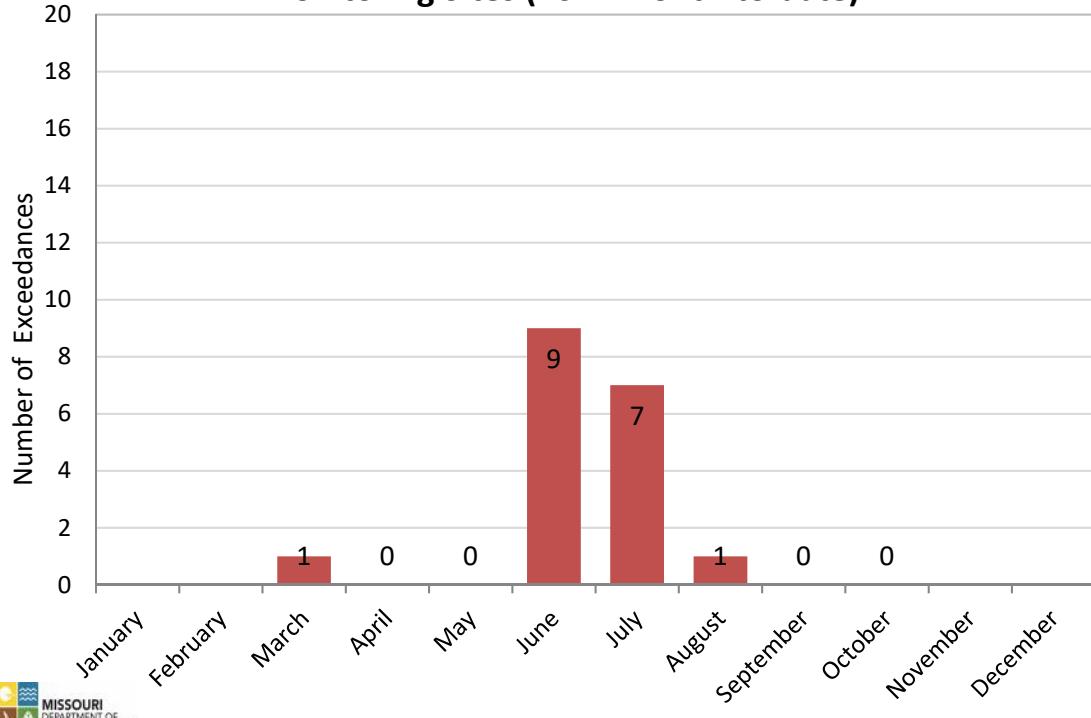
Averages in green recorded from the secondary monitor, primary monitor inoperative at that time.

Averages in green and bold recorded from the secondary monitor and exceed the 2015 standard.

Monthly Number of Ozone Exceedances at the State Air Monitoring Sites (2023 month-to-date)



Monthly Number of Ozone Exceedances at the State Air Monitoring Sites (2022 month-to-date)



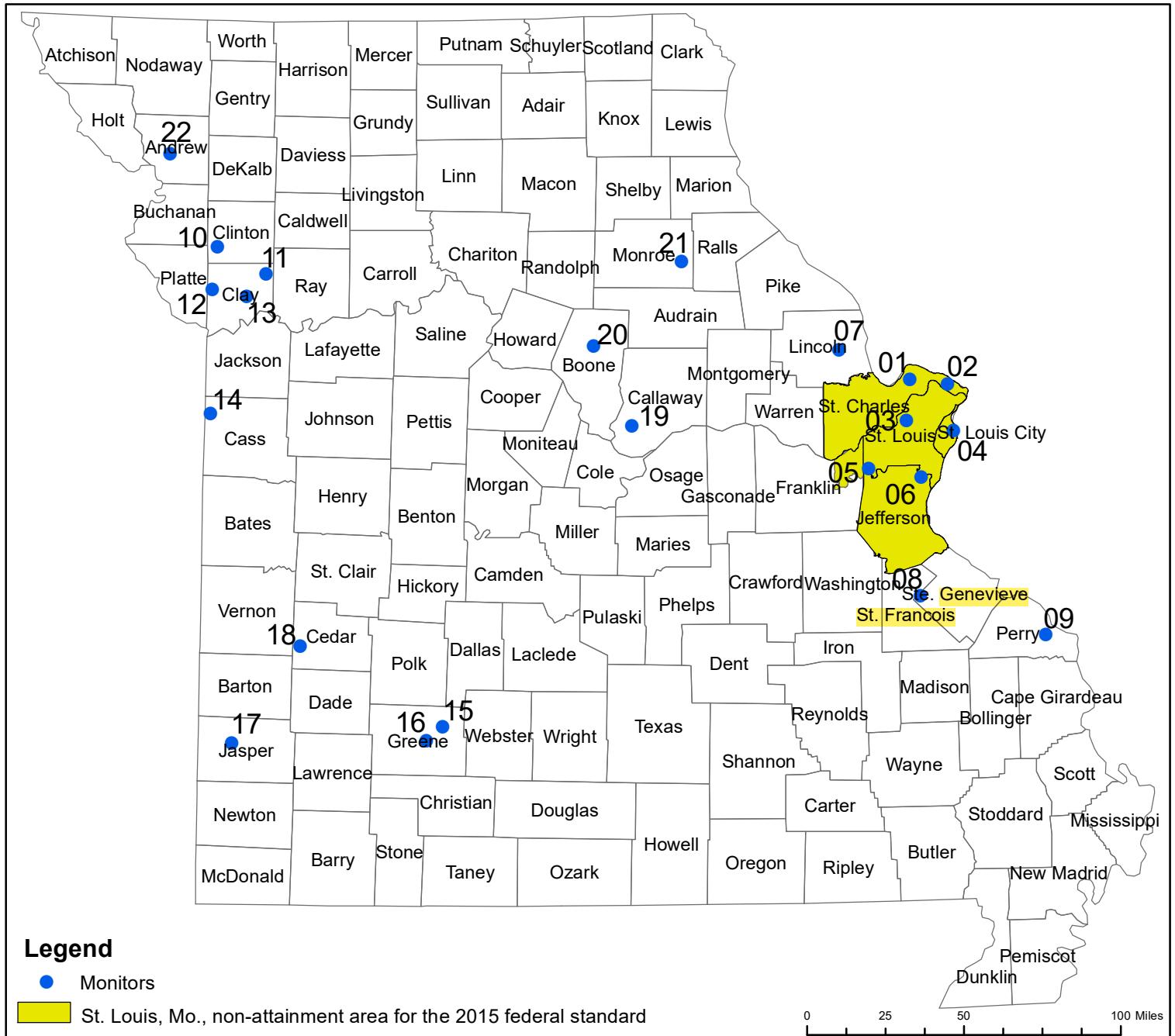
Cont.

**Daily 2023 Maximum Average Eight-Hour Concentration
of Ground-Level Ozone in Parts per Million**

Ozone Season is from March 1 to October 31

	31-Mar	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
<i>St. Louis</i>											
Arnold West	0.051	0.047	0.051								
Blair Street*	0.047	0.045	0.048								
Foley West	0.048	0.047	0.052								
Maryland Heights	0.050	0.046	0.051								
Orchard Farm	0.047	0.044	0.048								
Pacific	0.047	0.046	0.052								
West Alton	0.050	0.047	0.050								
<i>Ste. Genevieve</i>											
Bonne Terre	0.053	0.049	0.052								
<i>Southeast</i>											
Farrar	0.054	0.051	0.052								
<i>Kansas City</i>											
Liberty	0.047	0.049	0.058								
RG South	0.048	0.047	0.055								
Rocky Creek	0.047	0.050	0.058								
Trimble	0.046	0.050	0.057								
Watkins Mill	0.047	0.050	0.059								
<i>Springfield</i>											
Fellows Lake	0.056	0.050	0.055								
Hillcrest H.S.	0.053	0.048	0.050								
<i>Outstate</i>											
Alba	0.054	0.049	0.051								
El Dorado Springs	0.052	0.049	0.051								
Finger Lakes	0.047	0.047	0.051								
Mark Twain*	0.043	0.046	0.049								
New Bloomfield	0.052	0.047	0.051								
Savannah	0.047	0.051	0.057								

Missouri Ozone (O3) Monitoring Network, 2023



Legend

● Monitors

■ St. Louis, Mo., non-attainment area for the 2015 federal standard

0 25 50 100 Miles

St. Louis Area

- 01 Orchard Farm
- 02 West Alton
- 03 Maryland Heights
- 04 Blair Street**
- 05 Pacific
- 06 Arnold West
- 07 Foley West

Ste. Genevieve Area

- 08 Bonne Terre

Southeast Area

- 09 Farrar

Kansas City Area

- 10 Trimble
- 11 Watkins Mill State Park
- 12 Rocky Creek
- 13 Liberty
- 14 Richards Gebaur-South

Springfield Area

- 15 Fellows Lake
- 16 Hillcrest High School

Outstate Area

- 17 Alba
- 18 El Dorado Springs
- 19 New Bloomfield
- 20 Finger Lakes State Park
- 21 Mark Twain State Park**
- 22 Savannah

