



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. The Missouri Department of Natural Resources' Air Pollution Control Program 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 exceeded 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.

All monitors in the St. Louis nonattainment area were at or below the 2015 8-hour ozone standard of 0.070 ppm based on 2023-2025 design values. As a result, on February 5, 2026, the department submitted a redesignation request to EPA recommending the Missouri portion of the nonattainment area be classified as in attainment with the 2015 8-hour ozone NAAQS. The request was accompanied by a maintenance plan.

For more information, see [Ozone Pollutants and Sources](#) on the department's website.



Eight-hour Ozone Design Values^a

Annual summary through April 5, 2026

Site	County	Fourth Highest Eight-Hour Ozone Averages					Critical Values	Exceedance Days > 70 ppb (2015 Std)	Design Values		
		Parts per billion (ppb) Year-to-date							Year-to-date		
		2022	2023	2024	2025	2026 ^a	CV - 70	2026 ^a	22-24	23-25	24-26 ^a
St. Louis											
Arnold West	Jefferson	67	78	61	71	56	81	0	68	70	62
Blair Street	St. Louis City	68	77	66	67	54	80	0	70	70	62
Foley West	Lincoln	68	76	66	67	55	80	0	70	69	62
Maryland Heights	St. Louis	67	78	66	66	56	81	0	70	70	62
Orchard Farm	St. Charles	67	73	67	70	56	76	0	69	70	64
Pacific	St. Louis	61	77	64	69	55	80	0	67	70	62
West Alton	St. Charles	71	75	68	69	59	76	0	71	70	65
Ste. Genevieve											
Bonne Terre	Ste. Genevieve	63	78	64	64	55	85	0	68	68	61
Southeast											
Farrar	Perry	67	80	62	64	56	87	0	69	68	60
Kansas City											
Liberty	Clay	69	74	71	64	54	78	1	71	69	63
RG South	Cass	63	73	62	62	57	89	1	66	65	60
Rocky Creek	Clay	69	74	68	79	51	66	1	70	73	66
Trimble	Clinton	65	76	63	67	52	83	0	68	68	60
Watkins Mill	Clay	66	71	68	62	53	83	1	68	67	61
Springfield											
Fellows Lake	Greene	66	72	62	62	58	89	0	66	65	60
Hillcrest H.S.	Greene	66	71	58	64	57	91	1	65	64	59
Outstate											
Alba	Jasper	69	69	65	60	60	88	0	67	64	61
El Dorado Springs	Cedar	66	73	63	60	59	90	0	67	65	60
Finger Lakes	Boone	57	72	60	60	52	93	0	63	64	57
Mark Twain	Monroe	53	70	58	62	54	93	1	60	63	58
New Bloomfield	Callaway	59	71	57	61	56	95	0	62	63	58
Savannah	Andrew	61	72	63	63	52	87	0	65	66	59



Missouri’s Exceptional Event Demonstration and How it Affects Ozone Design Values

The Clean Air Act (CAA) and the United States Environmental Protection Agency’s (EPA) Exceptional Event Rule allows agencies to exclude monitoring data from design value calculations if the data is influenced by exceptional events. It is important to note that the data is still valid even though that data may be excluded from design value calculations.

In the spring and summer of 2023 Canada experienced unprecedented wildfire activity with over 42 million acres burned. The wildfires combusted organic materials resulting in the production of volatile organic compounds (VOCs) and nitrogen oxides (NO_x) emissions which can react with sunlight to form secondary gasses such as ozone.

In consideration of the impacts of the wildfires, CAA, and Exceptional Events Rule, the Missouri Department of Natural Resources’ Air Pollution Control Program developed an exceptional event demonstration. The demonstration included evidence that a clear, causal relationship existed between the wildfires and the monitored concentrations, the wildfires were natural, and the wildfires were not reasonably controllable or preventable. The air program submitted the [exceptional event demonstration](#) to EPA on November 3, 2025 following a public notice period.

On January 27, 2026, EPA issued a [letter](#) to the air program concurring that the information in the demonstration met exceptional event regulatory requirements such that six days at the West Alton monitoring station and one day at the Maryland Heights monitoring station could be excluded from design value calculations. Exclusion of these days from design value calculations brought both monitoring stations into compliance with the 2015 8-hour ozone NAAQS.

Below is a table showing the fourth highest eight-hour ozone averages and design values at the Maryland Heights and West Alton monitoring stations **before** EPA’s concurrence with the air program’s exceptional event demonstration. Design values and fourth highest eight-hour ozone averages **after** the concurrence are highlighted yellow in the Eight-Hour Ozone Design Values table on the above page.

Values of Monitors Before EPA Concurrence with Exceptional Event Demonstration

Air Monitoring Site	Fourth Highest Eight-Hour Ozone Average 2023	Design Value 2022-2024	Design Value 2023-2025
Maryland Heights	81	71	71
West Alton	80	73	72



Four Highest Eight-hour Ozone Values

Through April 5, 2026

2026^a

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

St. Louis

	1 st High	2 nd High	3 rd High	4 th High	CV - 70
Arnold West	65	56	56	56	81
Blair Street	62	59	55	54	80
Foley West	69	67	64	55	80
Maryland Heights	66	60	58	56	81
Orchard Farm	64	64	57	56	76
Pacific	62	57	57	55	80
West Alton	64	62	59	59	76

Ste. Genevieve

Bonne Terre	63	61	56	55	85
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Southeast

Farrar	62	62	58	56	87
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Kansas City

Liberty	76	59	57	54	78
RG South	74	64	57	57	89
Rocky Creek	72	56	55	51	66
Trimble	70	57	56	52	83
Watkins Mill	73	59	57	53	83

Springfield

Fellows Lake	69	60	59	58	89
Hillcrest H.S.	71	63	58	57	91

Outstate

Alba	70	68	65	60	88
El Dorado Springs	66	62	61	59	90
Finger Lakes	68	61	57	52	93
Mark Twain	74	65	55	54	93
New Bloomfield	66	64	63	56	95
Savannah	62	59	58	52	87

CV - 70:

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).

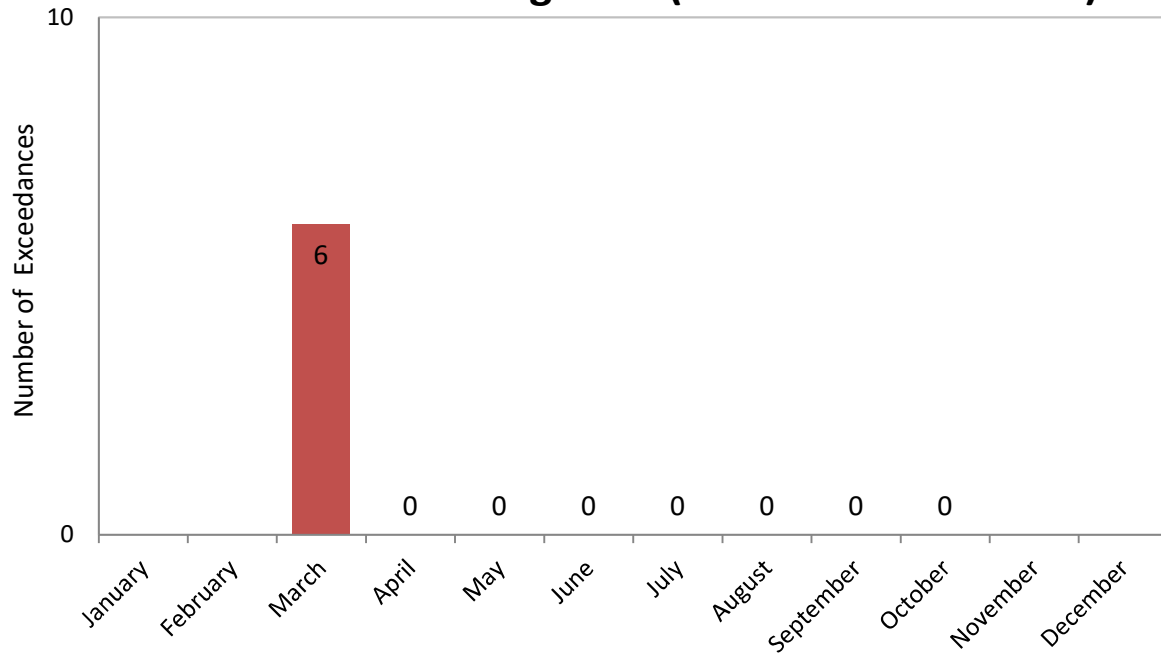
^aYear-to-date preliminary data. Do not cite or quote.

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

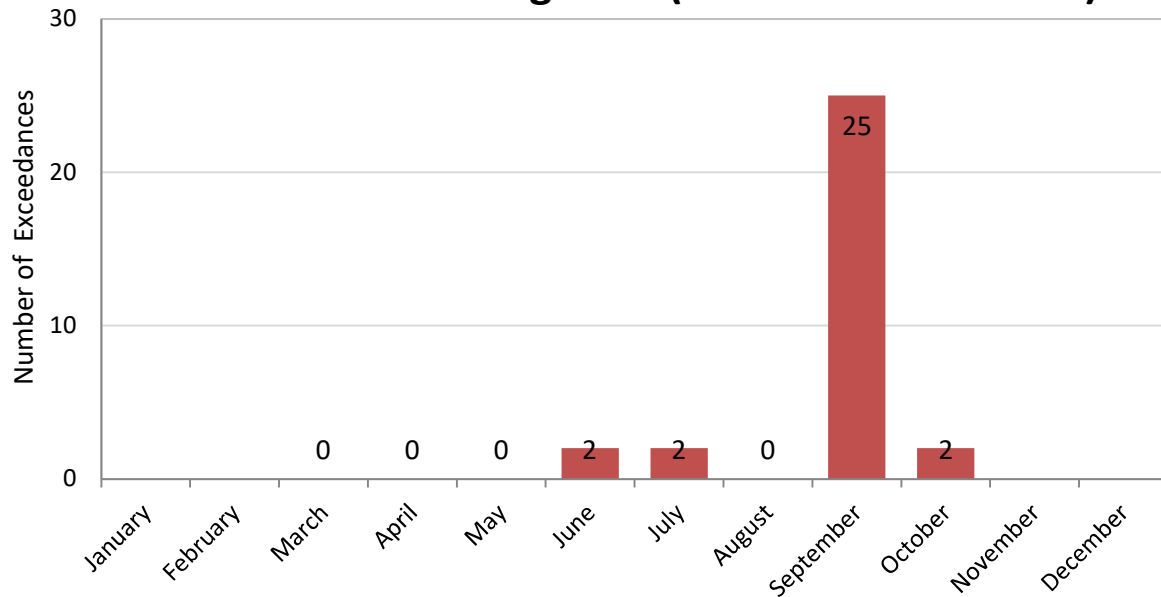
Averages in green recorded from the secondary monitor, primary monitor inoperative at that time.

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 (2026 month-to-date)



Monthly Number of Ozone Exceedances at the State Air Monitoring Sites (2025 month-to-date)





Daily 2026 Maximum Average Eight-Hour Concentration of Ground-Level Ozone in Parts per Million [^]

Ozone Season is from March 1 to October 31

	Area's Maximum	Site's Maximum	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
<i>St. Louis</i>	0.069										
Arnold West		0.065	0.034	0.024	0.009	0.001	0.004	0.033	0.037	0.038	0.026
Blair Street		0.062	0.035	0.025	0.007	0.004	0.007	0.031	0.036	0.037	0.029
Foley West		0.069	0.037	0.026	0.014	0.008	0.016	0.038	0.039	0.04	0.04
Maryland Heights		0.066	0.036	0.025	0.010	0.006	0.011	0.034	0.038	0.039	0.031
Orchard Farm		0.064	0.037	0.028	0.015	0.009	0.019	0.037	0.040	0.038	0.033
Pacific		0.062	0.037	0.026	0.013	0.005	0.011	0.038	0.040	0.039	0.035
West Alton		0.064	0.036	0.028	0.013	0.010	0.016	0.034	0.038	0.039	0.031
<i>Ste. Genevieve</i>	0.063										
Bonne Terre		0.063	0.035	0.026	0.037	0.022	0.020	0.034	0.041	0.04	0.028
<i>Southeast</i>	0.062										
Farrar		0.062	0.035	0.027	0.035	0.035	0.036	0.029	0.037	0.033	0.027
<i>Kansas City</i>	0.076										
Liberty		0.076	0.032	0.029	0.013	0.011	0.023	0.030	0.031	0.042	0.045
RG South		0.074	0.033	0.028	0.012	0.008	0.027	0.029	0.030	0.042	0.045
Rocky Creek		0.072	0.033	0.030	0.014	0.011	0.024	0.029	0.030	0.04	0.042
Trimble		0.070	0.035	0.029	0.015	0.013	0.025	0.030	0.036	0.041	0.046
Watkins Mill		0.073	0.034	0.029	0.014	0.010	0.023	0.029	0.032	0.042	0.047
<i>Springfield</i>	0.071										
Fellows Lake		0.069	0.040	0.026	0.039	0.020	0.029	0.041	0.037	0.041	0.034
Hillcrest H.S.		0.071	0.043	0.028	0.026	0.011	0.028	0.038	0.039	0.043	0.036
<i>Outstate</i>	0.074										
Alba		0.070	0.032	0.024	0.037	0.010	0.026	0.034	0.021	0.04	0.034
El Dorado Springs		0.066	0.034	0.024	0.033	0.007	0.020	0.034	0.019	0.04	0.035
Finger Lakes		0.068	0.038	0.028	0.014	0.008	0.023	0.038	0.033	0.039	0.046
Mark Twain		0.074	0.039	0.027	0.014	0.011	0.023	0.039	0.037	0.04	0.046
New Bloomfield		0.066	0.041	0.028	0.017	0.008	0.023	0.042	0.038	0.043	0.045
Savannah		0.062	0.036	0.031	0.015	0.015	0.025	0.031	0.038	0.044	0.049

^aYear-to-date preliminary data. Do not cite or quote.

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 standard.

The 'm' code is a placeholder for missing data on the primary and secondary monitors.

Cont.

Daily 2026 Maximum Average Eight-Hour Concentration of Ground-Level Ozone in Parts per Million

Ozone Season is from March 1 to October 31

	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
<u>St. Louis</u>											
Arnold West	0.028	0.031	0.043	0.044	0.049	0.044	0.033	0.04	0.048	0.056	0.056
Blair Street	0.03	0.035	0.041	0.044	0.042	0.042	0.035	0.038	0.045	0.055	0.059
Foley West	0.032	0.032	0.043	0.042	0.046	0.042	0.035	0.038	0.045	0.069	0.067
Maryland Heights	0.031	0.033	0.042	0.043	0.046	0.043	0.034	0.038	0.047	0.056	0.06
Orchard Farm	0.033	0.035	0.043	0.043	0.047	0.043	0.035	0.039	0.047	0.056	0.064
Pacific	0.032	0.033	0.044	0.046	0.049	0.044	0.035	0.04	0.047	0.055	0.057
West Alton	0.032	0.034	0.043	0.042	0.045	0.042	0.034	0.038	0.048	0.059	0.062
<u>Ste. Genevieve</u>											
Bonne Terre	0.028	0.032	0.043	0.047	0.052	0.045	0.035	0.04	0.048	0.061	0.056
<u>Southeast</u>											
Farrar	0.023	0.033	0.043	0.046	0.053	0.041	0.035	0.041	0.045	0.058	0.062
<u>Kansas City</u>											
Liberty	0.042	0.036	0.045	0.044	0.046	0.04	0.037	0.038	0.043	0.054	0.076
RG South	0.037	0.036	0.046	0.045	0.054	0.042	0.038	0.04	0.044	0.064	0.074
Rocky Creek	0.041	0.037	0.044	0.044	0.049	0.042	0.036	0.035	0.041	0.051	0.072
Trimble	0.041	0.038	0.045	0.044	0.048	0.041	0.038	0.038	0.043	0.05	0.07
Watkins Mill	0.042	0.035	0.045	0.044	0.047	0.042	0.037	0.039	0.043	0.053	0.073
<u>Springfield</u>											
Fellows Lake	0.03	0.034	0.046	0.048	0.06	0.043	0.038	0.043	0.055	0.059	0.058
Hillcrest H.S.	0.033	0.038	0.049	0.053	0.063	0.046	0.04	0.045	0.054	0.058	0.057
<u>Outstate</u>											
Alba	0.029	0.029	0.045	0.046	0.06	0.045	0.037	0.044	0.052	0.065	0.07
El Dorado Springs	0.032	0.033	0.043	0.044	0.059	0.04	0.035	0.04	0.052	0.061	0.062
Finger Lakes	0.034	0.028	0.045	0.042	0.051	0.042	0.035	0.04	0.044	0.061	0.068
Mark Twain	0.034	0.034	0.044	0.04	0.047	0.04	0.035	0.037	0.044	0.065	0.074
New Bloomfield	0.035	0.035	0.046	0.046	0.055	0.044	0.037	0.042	0.05	0.063	0.066
Savannah	0.04	0.038	0.046	0.043	0.048	0.039	0.037	0.036	0.045	0.051	0.058

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Daily 2026 Maximum Average Eight-Hour Concentration of Ground-Level Ozone in Parts per Million

Ozone Season is from March 1 to October 31

	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar
<u>St. Louis</u>											
Arnold West	0.065	0.052	0.038	0.045	0.056	0.045	0.035	0.044	0.047	0.048	0.046
Blair Street	0.062	0.052	0.036	0.042	0.054	0.045	0.035	0.043	0.047	0.048	0.043
Foley West	0.064	0.051	0.038	0.045	0.055	0.044	0.039	0.043	0.045	0.049	0.042
Maryland Heights	0.066	0.053	0.038	0.044	0.058	0.044	0.035	0.044	0.045	0.048	0.042
Orchard Farm	0.064	0.052	0.038	0.046	0.057	0.046	0.037	0.044	0.046	0.049	0.042
Pacific	0.062	0.052	0.038	0.046	0.057	0.045	0.036	0.044	0.046	0.049	0.045
West Alton	0.064	0.053	0.039	0.045	0.059	0.046	0.037	0.045	0.048	0.049	0.041
<u>Ste. Genevieve</u>											
Bonne Terre	0.063	0.049	0.038	0.052	0.055	0.049	0.038	0.045	0.048	0.047	0.047
<u>Southeast</u>											
Farrar	0.062	0.045	0.039	0.047	0.056	0.051	0.037	0.046	0.049	0.044	0.045
<u>Kansas City</u>											
Liberty	0.057	0.048	0.035	0.042	0.059	0.049	0.039	0.045	0.047	0.052	0.045
RG South	0.057	0.046	0.036	0.045	0.057	0.049	0.039	0.045	0.047	0.049	0.047
Rocky Creek	0.055	0.047	0.036	0.041	0.056	0.046	0.039	0.044	0.046	0.05	0.045
Trimble	0.057	0.046	0.038	0.044	0.056	0.046	0.041	0.046	0.049	0.052	0.045
Watkins Mill	0.057	0.048	0.036	0.043	0.059	0.050	0.039	0.044	0.047	0.053	0.045
<u>Springfield</u>											
Fellows Lake	0.069	0.05	0.039	0.045	0.054	0.047	0.038	0.046	0.044	0.049	0.046
Hillcrest H.S.	0.071	0.05	0.038	0.043	0.050	0.045	0.038	0.044	0.043	0.047	0.044
<u>Outstate</u>											
Alba	0.068	0.048	0.036	0.045	0.048	0.045	0.034	0.045	0.046	0.045	0.045
El Dorado Springs	0.066	0.045	0.035	0.045	0.048	0.044	0.037	0.043	0.043	0.045	0.043
Finger Lakes	0.057	0.044	0.04	0.047	0.052	0.047	0.038	0.046	0.044	0.051	0.045
Mark Twain	0.055	0.049	0.041	0.047	0.054	0.043	0.040	0.044	0.044	0.05	0.047
New Bloomfield	0.064	0.053	0.042	0.049	0.056	0.049	0.039	0.047	0.046	0.053	0.046
Savannah	0.059	0.044	0.038	0.044	0.062	0.045	0.040	0.045	0.049	0.052	0.045

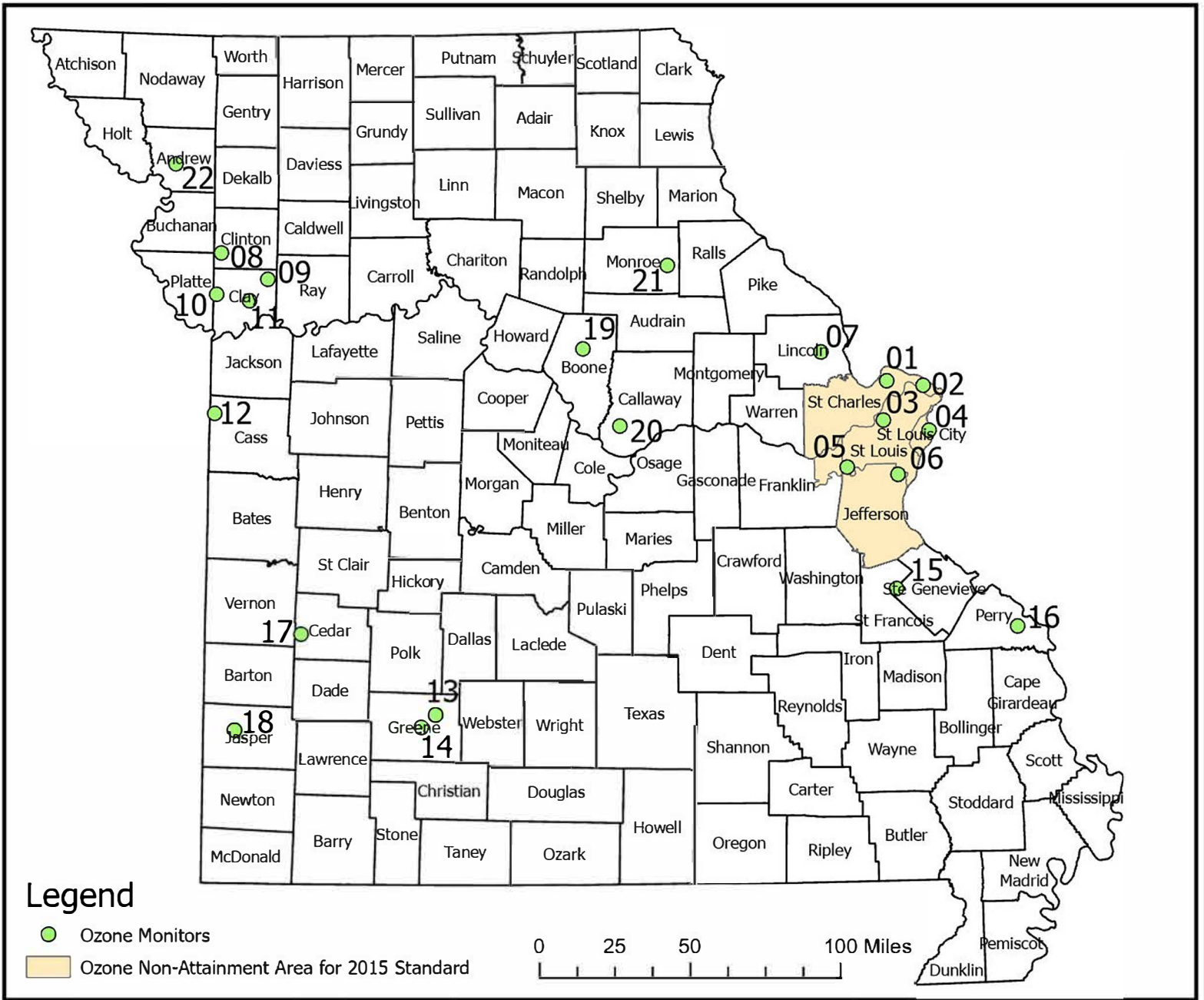
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**Daily 2026 Maximum Average Eight-Hour Concentration
of Ground-Level Ozone in Parts per Million**

Ozone Season is from March 1 to October 31

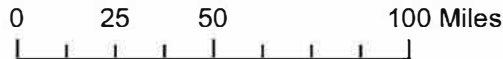
	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr
<u>St. Louis</u>											
Arnold West	0.024	0.031	0.034	0.033	0.045						
Blair Street	0.021	0.028	0.033	0.034	0.047						
Foley West	0.031	0.034	0.032	0.032	0.044						
Maryland Heights	0.025	0.031	0.034	0.031	0.044						
Orchard Farm	0.034	0.032	0.033	0.033	0.046						
Pacific	0.024	0.034	0.035	0.034	0.047						
West Alton	0.032	0.029	0.035	0.032	0.046						
<u>Ste. Genevieve</u>											
Bonne Terre	0.033	0.032	0.035	0.036	0.047						
<u>Southeast</u>											
Farrar	0.031	0.03	0.033	0.039	0.048						
<u>Kansas City</u>											
Liberty	0.036	0.037	0.026	0.041	0.047						
RG South	0.034	0.037	0.026	0.042	0.047						
Rocky Creek	0.036	0.035	0.025	0.041	0.046						
Trimble	0.036	0.035	0.026	0.041	0.048						
Watkins Mill	0.036	0.036	0.027	0.039	0.046						
<u>Springfield</u>											
Fellows Lake	0.036	0.041	0.033	0.039	0.046						
Hillcrest H.S.	0.033	0.038	0.031	0.037	0.046						
<u>Outstate</u>											
Alba	0.036	0.042	0.028	0.038	0.042						
El Dorado Springs	0.037	0.04	0.026	0.039	0.045						
Finger Lakes	0.031	0.039	0.031	0.034	0.044						
Mark Twain	0.034	0.038	0.03	0.035	0.044						
New Bloomfield	0.03	0.042	0.032	0.037	0.047						
Savannah	0.028	0.034	0.02	0.04	0.047						

Missouri Ozone (O₃) Monitoring Network, 2026



Legend

- Ozone Monitors
- Ozone Non-Attainment Area for 2015 Standard



St. Louis Area

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

Kansas City Area

- 08 Trimble
- 09 Watkins Mill State Park
- 10 Rocky Creek
- 11 Liberty
- 12 Richard Gebaur-South

Springfield Area

- 13 Fellows Lake
- 14 Hillcrest High School

Outstate Area

- 15 Bonne Terre
- 16 Farrar
- 17 El Dorado Springs
- 18 Alba
- 19 Finger Lakes
- 20 New Bloomfield
- 21 Mark Twain State Park
- 22 Savannah

