

Air Quality Analysis for Carbon Monoxide (CO)

The following information is for the CO ambient air monitors operated by the state. Data from these monitors is reported to the U.S. Environmental Protection Agency Air Quality System database, which constitutes the official record of air quality data.

EPA first promulgated the CO NAAQS in 1971 by setting the 8-hour primary standard at 9 parts per million (ppm) and the 1-hour primary standard at 35 ppm for protection of both public health and welfare. In the review of standard, in 1985, EPA revoked the secondary standards (for public welfare) due to a lack of evidence of adverse effects on public welfare at or near ambient concentrations. The last reviews of the CO NAAQS were completed in 1994 and 2011 and the agency retained without revising the standards. However, the 2011 review included new provisions for states to collocate one CO monitor with a “near-road” monitor in urban areas having a population of 1 million or more. The CO monitors at Forest Park and Blue Ridge meet this minimum requirement (see map below).

The monitoring information provided in the tables below highlight statewide air pollutant levels. No site in the state has monitored a violation of the CO standard since 1978 when the area including the City of St. Louis and the portion of St. Louis County encompassed by Interstate 270 was originally designated nonattainment for the 8-hour CO NAAQS. The area is in attainment of the CO NAAQS and subject to a Limited CO Maintenance Plan.

For more information about CO, see the following EPA website, which includes links to additional information on health effects, standards, implementation, etc.:

<http://www.epa.gov/airquality/carbonmonoxide/implement.html>



1-Hour Carbon Monoxide (CO) Concentrations ^a												
1-hour NAAQS = 35 ppm ^b												
2 nd Maximum 1-hour Averages												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
St. Louis												
01 Blair Street*	2.6	3.7	2.5	3.8	4.7	2.2	1.9	1.8	1.7	1.9	1.7	2.4
02 Forest Park, I-64**	-	-	-	-	-	-	-	-	1.4	1.4	1.6	1.4
Kansas City												
03 Blue Ridge, I-70**	-	-	-	-	-	-	-	-	1.6	1.5	1.3	1.3

Site numbers correspond to the map legend

^aQuality Assured Data through September 30, 2016

^bMaximum, not to be exceeded more than once in a year

*NCore site

**Near-Roadway site, began monitoring in 2013



8-Hour Carbon Monoxide (CO) Concentrations ^a												
8-hour NAAQS = 9 ppm ^b												
2 nd Maximum 8-hour Averages												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
St. Louis												
01 Blair Street*	2.2	1.9	1.4	2.6	1.3	1.7	1.4	1.1	1.0	1.0	1.4	1.4
02 Forest Park**	-	-	-	-	-	-	-	-	1.0	0.9	1.2	1.0
Kansas City												
03 Blue Ridge, I-70**	-	-	-	-	-	-	-	-	1.0	1.1	1.0	1.0

Site numbers correspond to the map legend

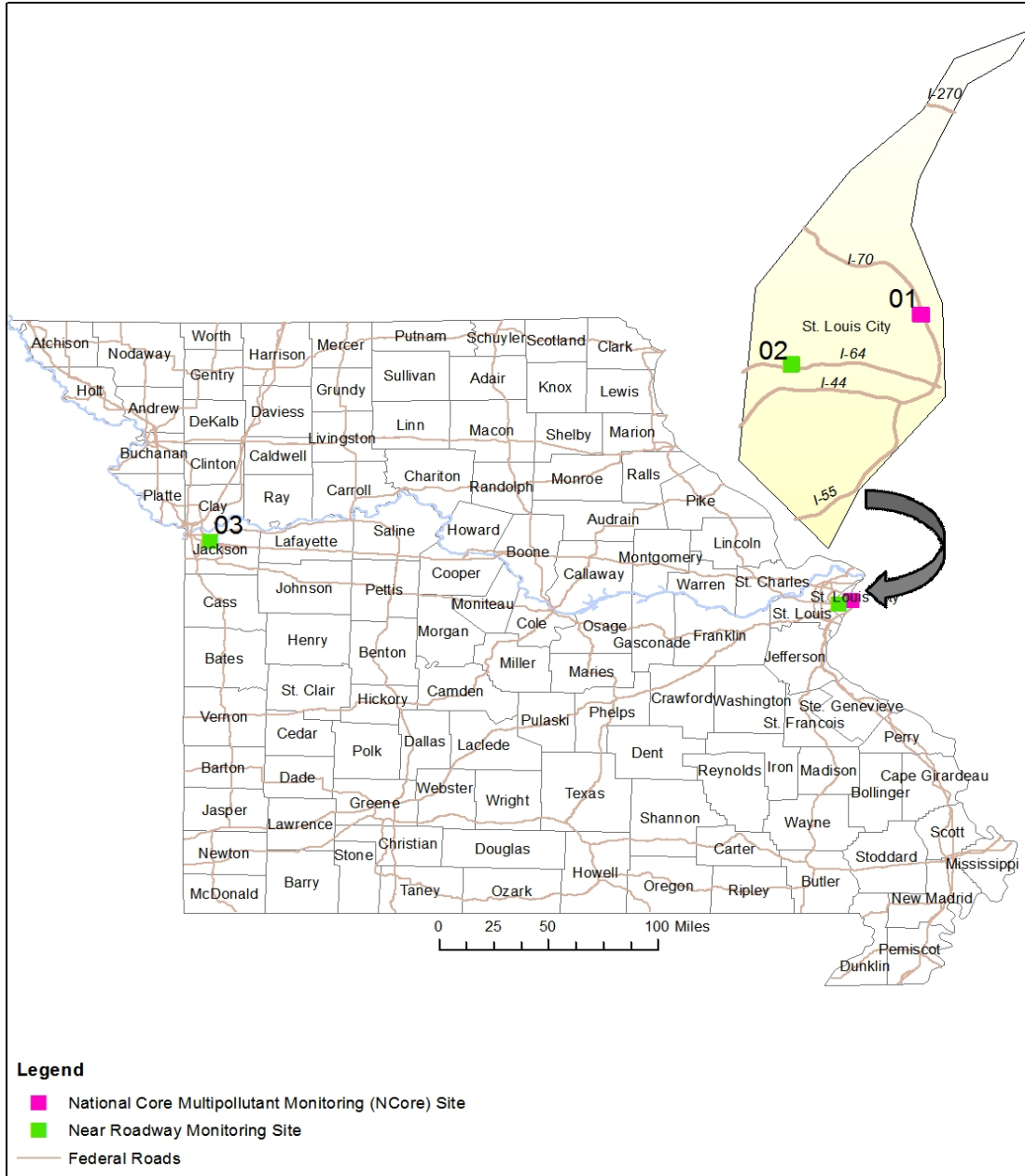
^aQuality Assured Data through September 30, 2016

^bMaximum, not to be exceeded more than once in a year

*NCore site

**Near-Roadway site, began monitoring in 2013

Missouri Statewide Carbon Monoxide (CO) Monitoring Network, 2016



Site# SiteName

- 01 Blair Street
- 02 Forest Park, I-64
- 03 Blue Ridge, I-70

