

Carbon Monoxide Air Quality Data Update 2007-2008 Design Values

The following is a brief summary of EPA's 2008 air quality update for carbon monoxide (CO) based on ambient monitoring data for the two year period, 2007-2008. During this two year period:

- All of the original 42 areas designated nonattainment for the 8-hour CO NAAQS in 1991 that have complete monitoring met the CO NAAQS in 2007-2008 (Table 1).
- There were no additional areas not meeting the CO NAAQS.

EPA's National Ambient Air Quality Standard for carbon monoxide is 9 parts per million (ppm) non-overlapping 8-hour average concentration not to be exceeded more than once per year. The CO standard is not met at a monitoring site if there are two or more exceedances of the level of the CO NAAQS in either of the two most recent calendar years of monitoring data.

Air quality data from EPA's Air Quality System (AQS) were used to calculate carbon monoxide design values. The specific calculations are explained in footnotes to the attached tables. The data used for these calculations were obtained from AQS on July 9, 2009. As of August 26, 2009, no regulatory decisions on attainment status have been made for any area based on these specific calculations. For information concerning these data, contact:

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Table 1. Areas previously designated nonattainment for the 8-hour Carbon Monoxide NAAQS, Final 2008

<u>Designated Area</u>	<u>State</u>	<u>EPA Region</u>	<u>8-hour Classification</u>	<u>8-hour Designation Status</u>	<u>2007- 2008 8-hour Design Value (1)</u>	<u>Met NAAQS?</u>	<u>2007- 2008 1-hour Design Value (2)</u>	<u>Met NAAQS 2008?</u>
Albuquerque	NM	6	Moderate	Maintenance	3.4	Yes	6.9	Yes
Anchorage	AK	10	Serious	Maintenance	5.5	Yes	12.5	Yes
Atlantic City Area	NJ	2	Not Classified	Maintenance		incomplete		incomplete
Bakersfield Area	CA	9	Not Classified	Maintenance	2.1	Yes	2.8	Yes
Baltimore	MD	3	Moderate	Maintenance	2.3	Yes	3.3	Yes
Billings Area	MT	8	Not Classified	Maintenance	2.2	Yes	4	Yes
Boise-Northern Ada County Area	ID	10	Not Classified	Maintenance	2.9	Yes	7.3	Yes
Boston	MA	1	Moderate	Maintenance	2.1	Yes	3.2	Yes
Burlington Area	NJ	2	Not Classified	Maintenance	1.4	Yes	2.7	Yes
Charlotte Area	NC	4	Not Classified	Maintenance	2	Yes	2.7	Yes
Chico	CA	9	Moderate	Maintenance	2.4	Yes	3.3	Yes
Cleveland	OH	5	Moderate	Maintenance	4.8	Yes	7.5	Yes
Colorado Springs	CO	8	Moderate	Maintenance	2.3	Yes	4	Yes
Denver-Boulder	CO	8	Serious	Maintenance	3.1	Yes	7	Yes
Detroit Area	MI	5	Not Classified	Maintenance	1.4	Yes	1.9	Yes
Duluth	MN	5	Moderate	Maintenance	1.5	Yes	4	Yes
East Chicago Area	IN	5	Not Classified	Maintenance	3	Yes	8	Yes
El Paso	TX	6	Moderate	Maintenance	4.8	Yes	8	Yes
Eugene-Springfield Area	OR	10	Not Classified	Maintenance	2.1	Yes	3.1	Yes
Fairbanks North Star Borough	AK	10	Serious	Maintenance	3.6	Yes	6.7	Yes
Fort Collins	CO	8	Moderate	Maintenance	3	Yes	5	Yes
Fairbanks Area	AK	10	Not Classified	Maintenance	3.6	Yes	6.7	Yes
Fresno	CA	9	Moderate	Maintenance	2.5	Yes	3.5	Yes
Grant Pass	OR	10	Moderate	Maintenance		incomplete		incomplete
Great Falls Area	MT	8	Not Classified	Maintenance	1.5	Yes	3	Yes
Greeley Area	CO	8	Not Classified	Maintenance	2.4	Yes	3.9	Yes

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Hartford - New Britain - Middletown	CT	1	Moderate	Maintenance	3.3	Yes	5.9	Yes
Indianapolis Area	IN	5	Not Classified	Maintenance	3.6	Yes	7.9	Yes
Klamath Falls	OR	10	Moderate	Maintenance	(3)	(3)		(3)
Lake Tahoe Nevada Area	NV	9	Not Classified	Maintenance	3.7	Yes	7.5	Yes
Lake Tahoe North Shore Area	CA	9	Not Classified	Maintenance		no monitor		no monitor
Lake Tahoe S. Shore	CA	9	Moderate	Maintenance		no monitor		no monitor
Las Vegas	NV	9	Serious	Nonattainment	3.8	Yes	4.7	Yes
Longmont	CO	8	Moderate	Maintenance	2.7	Yes	3.5	Yes
Los Angeles South Coast Air Basin	CA	9	Serious	Maintenance	4.9	Yes	7	Yes
Lowell Area	MA	1	Not Classified	Maintenance	2.1	Yes	3.2	Yes
Manchester Area	NH	1	Not Classified	Maintenance	3.5	Yes	6	Yes
Medford	OR	10	Moderate	Maintenance	2.7	Yes	4.3	Yes
Memphis	TN	4	Moderate	Maintenance	1.7	Yes	2.9	Yes
Minneapolis-St. Paul	MN	5	Moderate	Maintenance	2.4	Yes	3.1	Yes
Missoula	MT	8	Moderate	Maintenance	2.7	Yes	4.3	Yes
Modesto	CA	9	Moderate	Maintenance	3	Yes	3.7	Yes
Morristown Area	NJ	2	Not Classified	Maintenance	1.3	Yes	2.1	Yes
Nashua Area	NH	1	Not Classified	Maintenance	3.5	Yes	6	Yes
New Haven-Meriden-Waterbury Area	CT	1	Not Classified	Maintenance	1.6	Yes	2.1	Yes
New York-N. New Jersey-Long Island	NY-NJ-CT	1,2	Moderate	Maintenance	2.4	Yes	3.8	Yes
Ogden	UT	8	Moderate	Maintenance	6.4	Yes	24.2	Yes
Penns Grove Area	NJ	2	Not Classified	Maintenance		no monitor		no monitor
Perth Amboy Area	NJ	2	Not Classified	Maintenance	1.5	Yes	2	Yes
Philadelphia-Camden Co	PA-NJ	2,3	Moderate	Maintenance	5.5	Yes	5.6	Yes
Phoenix	AZ	9	Serious	Maintenance	4.1	Yes	6	Yes
Pittsburgh Area	PA	3	Not Classified	Maintenance	3.2	Yes	5.7	Yes

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Portland-Vancouver	OR-WA	10	Moderate	Maintenance	2.7	Yes	3.9	Yes
Provo-Orem	UT	8	Moderate	Maintenance	2.5	Yes	3.9	Yes
Raleigh-Durham	NC	4	Moderate	Maintenance	2.2	Yes	3.1	Yes
Reno	NV	9	Moderate	Maintenance	3.3	Yes	4.7	Yes
Sacramento	CA	9	Moderate	Maintenance	4.1	Yes	5.8	Yes
Salem Area	OR	10	Not Classified	Maintenance		no monitor		no monitor
Salt Lake City Area	UT	8	Not Classified	Maintenance	3.4	Yes	8.6	Yes
San Diego	CA	9	Moderate	Maintenance	4.8	Yes	6.3	Yes
San Francisco-Oakland-San Jose	CA	9	Moderate	Maintenance	2.6	Yes	4.1	Yes
Seattle-Tacoma	WA	10	Moderate	Maintenance	2.6	Yes	3.5	Yes
Somerville Area	NJ	2	Not Classified	Maintenance		incomplete		incomplete
Spokane	WA	10	Serious	Maintenance	2.9	Yes	4.6	Yes
Stockton	CA	9	Moderate	Maintenance	2.1	Yes	3.6	Yes
Syracuse	NY	2	Moderate	Maintenance	1.4	Yes	1.9	Yes
Toms River Area	NJ	2	Not Classified	Maintenance		no monitor		no monitor
Trenton Area	NJ	2	Not Classified	Maintenance		incomplete		incomplete
Tucson Area	AZ	9	Not Classified	Maintenance	1.9	Yes	3.1	Yes
Vancouver Area: Clark County (part)	WA	10	Moderate	Maintenance		incomplete		incomplete
Waltham Area	MA	1	Not Classified	Maintenance		incomplete		incomplete
Washington	DC-MD	3	Moderate	Maintenance	3.1	Yes	6	Yes
Winston-Salem	NC	4	Moderate	Maintenance	1.9	Yes	2.5	Yes
Worcester Area	MA	1	Not Classified	Maintenance	1.7	Yes	2.7	Yes
Yakima Area	WA	10	Not Classified	Maintenance		incomplete		incomplete

Notes:

1. The level of the 8-hour National Ambient Air Quality Standard for carbon monoxide is 9 parts per million (ppm) not to be exceeded more than once per year. The design value for the 8-hour CO NAAQS is the highest annual second maximum non-overlapping 8-hour concentration during the most recent two years.
2. The level of the 1-hour National Ambient Air Quality Standard for carbon monoxide is 35 parts per million (ppm) not to be exceeded more than once per year. The design value for the 1-hour CO NAAQS is the highest annual second maximum 1-hour concentration during the most recent two years.
3. Klamath Falls was redesignated to attainment for the 8-hour CO NAAQS on September 20, 2001. In 2005, with the approval of EPA's Region 10 office, the Oregon Department of Environmental Quality (ODEQ) discontinued CO monitoring in the Klamath Falls maintenance area after recording values well below standard the previous three years. The Region 10 approval of the discontinuation of the Klamath Falls CO monitor requires that the ODEQ periodically reassess the need for CO monitoring data to verify compliance with the standard. ODEQ has agreed in their annual network monitoring plan to track CO emission inventories every three years to determine if additional CO monitoring is needed.
4. Data that have been flagged for exceptional events, for which documentation has been submitted and approved by the EPA (AQS concurrence field set to 'Y'), were excluded from the design value calculations
In several situations, submitted documentation is still under review and as such, revisions to design values are possible.
SOURCE: U.S. EPA'S Air Quality System (AQS) as of July 09,2009