

CO Air Quality Data Update 2009 Design Values

The following is a brief summary of EPA's 2009 air quality update for carbon monoxide (CO).

During the 2009 calendar year:

- 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 2009 (Table 1).
- There were no additional areas not meeting the CO NAAQS.

EPA has two primary National Ambient Air Quality Standard for carbon monoxide: (1) non-overlapping 8-hour average concentration of 9 parts per million (ppm) not to be exceeded more than once per year and (2) 1-hour average concentration of 35 ppm 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 the most recent calendar year of monitoring data.

Air quality data from EPA's Air Quality System (AQS) were used to calculate CO design values. The specific calculations are explained in footnotes to the attached tables. The data used for these calculations were obtained from AQS on June 9, 2010. As of August 30, 2010, no regulatory decisions on attainment status have been made for any area based on these specific calculations.

For information concerning these data, contact:

Rhonda Thompson
U.S. Environmental Protection Agency
Air Quality Analysis Group (C304-04)
Research Triangle Park, NC 27711
(919) 541-5538, (919) 541-3613 (FAX)
Thompson.Rhonda@epa.gov

Table 1. Areas Previously Designated Nonattainment for Carbon Monoxide 8-Hour NAAQS

AQS Data Query:

5/6/2010 Last Updated: 7/7/2010

Designated Area	States	EPA Regions	Designation		2009 8-hour Design Value (ppm) ^{2,3}	Met NAAQS
			Status ¹	Classification ¹		
Albuquerque Area	NM	06	Maintenance	Moderate <= 12.7ppm	2.4	Yes
Anchorage Area	AK	10	Maintenance	Serious	5.8	Yes
Atlantic City Area	NJ	02	Maintenance	Not Classified		incomplete
Bakersfield Area	CA	09	Maintenance	Not Classified	1.5	Yes
Baltimore Area	MD	03	Maintenance	Moderate <= 12.7ppm	1.8	Yes
Billings Area	MT	08	Maintenance	Not Classified	1.8	Yes
Boise-Northern Ada County Area	ID	10	Maintenance	Not Classified	3.3	Yes
Boston Area	MA	01	Maintenance	Moderate <= 12.7ppm	1.6	Yes
Burlington Area	NJ	02	Maintenance	Not Classified	1.4	Yes
Charlotte Area	NC	04	Maintenance	Not Classified	1.7	Yes
Chico Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.0	Yes
Cleveland Area	OH	05	Maintenance	Moderate <= 12.7ppm	6.6	Yes
Colorado Springs Area	CO	08	Maintenance	Moderate <= 12.7ppm	1.9	Yes
Denver-Boulder Area	CO	08	Maintenance	Serious	2.2	Yes
Detroit Area	MI	05	Maintenance	Not Classified	1.2	Yes
Duluth Area	MN	05	Maintenance	Moderate <= 12.7ppm	1.5	Yes
East Chicago Area	IN	05	Maintenance	Not Classified	2.2	Yes
El Paso	TX	06	Maintenance	Moderate <= 12.7ppm	4.0	Yes
Eugene-Springfield Area	OR	10	Maintenance	Not Classified	1.6	Yes
Fairbanks Area	AK	10	Maintenance	Serious	3.1	Yes
Fort Collins Area	CO	08	Maintenance	Moderate <= 12.7ppm	1.8	Yes
Freehold Area	NJ	02	Maintenance	Not Classified	1.4	Yes
Fresno Area	CA	09	Maintenance	Moderate > 12.7ppm	2.0	Yes
Grants Pass Area	OR	10	Maintenance	Moderate <= 12.7ppm		incomplete
Great Falls Area	MT	08	Maintenance	Not Classified	1.6	Yes
Greeley Area	CO	08	Maintenance	Not Classified		incomplete
Hartford-New Britain-Middletown Area	CT	01	Maintenance	Moderate <= 12.7ppm	2.5	Yes
Indianapolis Area	IN	05	Maintenance	Not Classified	2.5	Yes
Klamath Falls Area	OR	10	Maintenance	Moderate <= 12.7ppm		(4)
Lake Tahoe Nevada Area	NV	09	Maintenance	Not Classified		incomplete
Lake Tahoe North Shore Area	CA	09	Maintenance	Not Classified	2.6	Yes
Lake Tahoe South Shore Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.6	Yes
Las Vegas Area	NV	09	Nonattainment	Serious	3.1	Yes
Longmont Area	CO	08	Maintenance	Moderate <= 12.7ppm	2.1	Yes
Los Angeles-South Coast Air Basin Area	CA	09	Maintenance	Serious	4.5	Yes
Lowell Area	MA	01	Maintenance	Not Classified		incomplete
Manchester Area	NH	01	Maintenance	Not Classified		incomplete
Medford Area	OR	10	Maintenance	Moderate <= 12.7ppm	2.4	Yes
Memphis Area	TN	04	Maintenance	Moderate <= 12.7ppm	2.0	Yes
Minneapolis-St. Paul Area	MN	05	Maintenance	Moderate <= 12.7ppm	2.0	Yes
Missoula Area	MT	08	Maintenance	Moderate <= 12.7ppm	2.5	Yes
Modesto Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.0	Yes
Morristown Area	NJ	02	Maintenance	Not Classified	1.0	Yes
Nashua Area	NH	01	Maintenance	Not Classified	2.0	Yes
New Haven-Meriden-Waterbury Area	CT	01	Maintenance	Not Classified	1.4	Yes
New York-N. New Jersey-Long Island Area	NY-NJ-CT	01-02	Maintenance	Moderate > 12.7ppm	8.2	Yes

Table 1. Areas Previously Designated Nonattainment for Carbon Monoxide 8-Hour NAAQS

AQS Data Query:

5/6/2010 Last Updated: 7/7/2010

Designated Area	States	EPA Regions	Designation		2009 8-hour Design Value (ppm) ^{2,3}	Met NAAQS
			Status ¹	Classification ¹		
Ogden Area	UT	08	Maintenance	Moderate <= 12.7ppm	2.9	Yes
Oshkosh Area; Winnebago County (part); City of Oshkosh	WI	05	Maintenance	Not Classified		incomplete
Penns Grove Area	NJ	02	Maintenance	Not Classified		no monitor
Perth Amboy Area	NJ	02	Maintenance	Not Classified	1.4	Yes
Philadelphia-Camden County Area	PA-NJ	02-03	Maintenance	Moderate <= 12.7ppm	0.4	Yes
Phoenix Area	AZ	09	Maintenance	Serious	3.3	Yes
Pittsburgh Area	PA	03	Maintenance	Not Classified	1.2	Yes
Portland Area: Portland Metro Service District Boundary	OR	10	Maintenance	Moderate <= 12.7ppm	2.3	Yes
Provo Area	UT	08	Maintenance	Moderate > 12.7ppm	2.5	Yes
Raleigh-Durham Area	NC	04	Maintenance	Moderate <= 12.7ppm	1.6	Yes
Reno Area	NV	09	Maintenance	Moderate <= 12.7ppm	2.6	Yes
Sacramento Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.8	Yes
Salem Area	OR	10	Maintenance	Not Classified		no monitor
Salt Lake City Area	UT	08	Maintenance	Not Classified	2.3	Yes
San Diego Area	CA	09	Maintenance	Moderate <= 12.7ppm	3.0	Yes
San Francisco-Oakland-San Jose Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.3	Yes
Seattle-Tacoma Area	WA	10	Maintenance	Moderate > 12.7ppm	2.6	Yes
Somerville Area	NJ	02	Maintenance	Not Classified		incomplete
Spokane Area	WA	10	Maintenance	Serious	2.8	Yes
Springfield Area	MA	01	Maintenance	Not Classified	1.8	Yes
St. Louis Area	MO	07	Maintenance	Not Classified	1.7	Yes
Stockton Area	CA	09	Maintenance	Moderate <= 12.7ppm	2.0	Yes
Syracuse Area; Onondaga County	NY	02	Maintenance	Moderate <= 12.7ppm	1.2	Yes
Toms River Area	NJ	02	Maintenance	Not Classified		no monitor
Trenton Area	NJ	02	Maintenance	Not Classified		incomplete
Tucson Area	AZ	09	Maintenance	Not Classified	1.2	Yes
Vancouver Area: Clark County (part)	WA	10	Maintenance	Moderate <= 12.7ppm		incomplete
Waltham Area	MA	01	Maintenance	Not Classified		incomplete
Washington Area	DC	03	Maintenance	Moderate <= 12.7ppm	3.8	Yes
Winston-Salem Area	NC	04	Maintenance	Moderate <= 12.7ppm	1.7	Yes
Worcester Area	MA	01	Maintenance	Not Classified	1.9	Yes
Yakima Area	WA	10	Maintenance	Not Classified		incomplete

Notes:

1 Area designation as of 6/9/2010.

2. The level of the 8-hour NAAQS for carbon monoxide is 9 parts per million (ppm) not to be exceeded more than once per year.

3. The design values shown here are computed for the latest design value period using Federal Reference Method or equivalent data reported by States, Tribes, and local agencies to EPA's AQS Data Query as of 5/6/2010. Concentrations flagged by States, Tribes, and local agencies as exceptional events (e.g., high winds, wildfires, volcanic eruptions, construction) and concurred by the associated EPA AQS Data Query are not included in the calculation of these design values.

4. 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 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 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.