

SO₂ Air Quality Data Update 2006-2007 Design Values

The following is a brief summary of EPA's 2007 air quality update for sulfur dioxide (SO₂) based on ambient monitoring data for the period of 2006 through 2007.

During this period:

- All of the original 54 areas designated non-attainment for the annual SO₂ NAAQS in 1990 met the SO₂ NAAQS in 2007.

EPA has two primary National Ambient Air Quality Standards for sulfur dioxide: (1) annual arithmetic mean concentration of 0.03 parts per million (ppm), and (2) a 24-hour average concentration of 0.14 ppm (not to be exceeded more than once per year).

Air quality data from EPA's Air Quality System (AQS) were used to calculate SO₂ design values. The data used for these calculations were obtained from AQS on July 8, 2008. As of August 26, 2008, 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 Annual Mean Sulfur Dioxide NAAQS, 2006-2007

<u>Designated Area</u>	<u>State</u>	<u>EPA Region</u>	<u>Designation Status</u>	<u>Standard</u>	<u>2006-2007 Design Value (1)</u>	<u>Met NAAQS 2006-2007?</u>
Miami (Gila County), AZ	AZ	9	Nonattainment	Primary	0.005	Yes
Hayden (Pinal County), AZ	AZ	9	Nonattainment	Primary	0.01	Yes
San Manuel (Pinal County), AZ	AZ	9	Nonattainment	Primary	0.002	Yes
Peoria, IL	IL	5	Maintenance	Primary	0.004	Yes
Lake County, IN	IN	5	Maintenance	Primary	0.005	Yes
La Porte Co, IN	IN	5	Maintenance	Primary	0.003	Yes
Marion County: Lawrence, Washington, Warrant Townships , IN	IN	5	Maintenance	Primary	0.01	Yes
Vigo Co, IN	IN	5	Maintenance	Primary	0.005	Yes
Wayne Co, IN	IN	5	Maintenance	Primary	0.006	Yes
Muscatine Co, IA	IA	7	Maintenance	Primary	0.007	Yes
Minneapolis-St Paul, MN	MN	5	Maintenance	Primary	0.002	Yes
Grant Co, NM	NM	5	Maintenance	Primary	(2)	Yes
Cuyahoga Co, OH	OH	5	Maintenance	Primary	0.008	Yes
Steubenville & Mingo Junction, OH	OH	5	Maintenance	Primary	0.006	Yes
Lake Co, OH	OH	5	Maintenance	Primary	0.005	Yes
Lucas Co, OH	OH	5	Maintenance	Primary	0.006	Yes
Hazelwood, PA	PA	3	Maintenance	Primary	0.006	Yes
Warren Co, PA	PA	3	Nonattainment	Primary/Secondary	0.004	Yes
Conewango Township (Warren County), PA	PA	3	Maintenance	Primary	0.011	Yes
Humphreys Co, TN	TN	4	Maintenance	Primary/Secondary	0.002	Yes
Salt Lake Co, UT	UT	8	Nonattainment	Primary/Secondary	0.003	Yes
Weirton, WV	WV	3	Maintenance	Primary/Secondary	0.012	Yes
New Manchester-Grant Mag. Dis (Hancock), WV	WV	3	Maintenance	Primary	0.01	Yes
Weirton, WV	WV	3	Maintenance	Primary/Secondary	0.013	Yes
Milwaukee, WI	WI	5	Maintenance	Primary	0.003	Yes
Rhinelander (Oneida County), WI	WI	5	Maintenance	Primary/Secondary	0.007	Yes

1. The level of the National Ambient Air Quality Standard for sulfur dioxide is .03 parts per million (ppm) not to be exceeded more than once per the year.

The design value for the SO₂ NAAQS is the highest annual average of the most recent two years.

2. The site in this area is consistently reporting values that are so low that they average out to 0.0000170651.

Design values were calculated using days and quarters that are at least 75% complete.

No minimum detection limit/2 substitution was used.

The 24 hour primary standard and 3 hour secondary standard have not been addressed at this time.

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

SOURCE: U.S. EPA's Air Quality System (AQS) as of July 08, 2008.

Table 2. Additional areas failing to meet the Annual Mean Sulfur Dioxide NAAQS, 2006-2007

<u>State</u>	<u>County</u>	<u>EPA Region</u>	<u>2006-2007 Design Value</u> ⁽¹⁾	<u>Site</u>	<u>POC</u>	<u>CBSA</u>
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Notes:

1. There were no additional areas failing to meet the Annual Mean Sulfur Dioxide NAAQS, 2006-2007.

SOURCE: U.S. EPA's Air Quality System (AQS) as of July 08, 2008.