

NO₂ Air Quality Data Update 2009 Design Values

The following is a brief summary of EPA's 2009 air quality update for nitrogen dioxide (NO₂).

During the 2009 calendar year:

- The original one area designated nonattainment for the annual NO₂ NAAQS in 1990 met the NO₂ NAAQS in 2009 (Table 1).
- There were no additional areas not meeting the annual NO₂ NAAQS.

During the three year period from 2007 - 2009:

- There was one county, Cook county Illinois, that did not meet the new daily maximum 1-hour average NAAQS.

As of January 22nd, 2010 EPA now has two primary National Ambient Air Quality Standard for NO₂: (1) annual arithmetic mean concentration of 53 parts per billion (ppb) and (2) a 3-year average of the 98th percentile of the annual distribution of the daily maximum 1-hour average concentrations of 100 ppb.

Air quality data from EPA's Air Quality System (AQS) were used to calculate NO₂ 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
Thompson.Rhonda@epa.gov

Table 1. Areas Previously Designated Nonattainment for Nitrogen Dioxide Annual NAAQS						
AQS Data Query:	5/6/2010	Last Updated:	7/7/2010			
Designated Area	States	EPA Regions	Designation Status ¹	Classification ¹	2009 Annual Design Value (ppb) ^{2,3}	Met NAAQS
Los Angeles South Coast Air Basin, CA	CA	9	Maintenance	Primary	28	Yes
Notes:						
1. Area designation as of 6/9/2010.						
2. The level of the annual NAAQS for nitrogen dioxide is 53 parts per billion (ppb) not to be exceeded during the 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 Air Quality System (AQS) as of 5/6/2010. Concentrations flagged by States, Tribes, and local agencies as exception events (e.g., high winds, wildfires, volcanic eruptions, construction) and concurred by the associated EPA Regional Office are not included in the calculation of these design values.						