

Cooperating Agencies:



Environmental Protection Agency (EPA)
www.epa.gov



Arizona Department of Environmental Quality (ADEQ)
www.azdeq.gov



Arizona Department of Transportation (ADOT)
www.azdot.gov



Pima County Department of Environmental Quality (PDEQ)
www.deq.pima.gov



Pima Association of Governments (PAG)
www.pagnet.org

Air Quality Planning Documents:

- Federal Clean Air Act (CAA), as amended in 1990
- Memorandum of Agreement among ADEQ, ADOT, PDEQ, and PAG (8/23/2000)
- The 1996 Carbon Monoxide Limited Maintenance Plan for the Tucson Air Planning Area (as updated August 1997)
- PAG's Annual Overall Work Program
- PAG's System for Management, Observation, and GIS Modeling of Air Pollution (SMOGMAP) (1997-2001)
- PAG's Annual CO Progress Report
- PAG's 2003 Ozone Status Report
- Emissions Inventories for the Tucson Air Planning Area for 2000 (11/2001)
- PDEQ's Annual Data Summary and Appendix of Air Quality in Tucson, Arizona
- Pima County Natural Events Action Plan for PM₁₀ (effective 1/3/2003)

Call (520) 792-1093 for additional information on these documents.

PAG's Air Quality Program Goals:

- To follow the Carbon Monoxide Limited Maintenance Plan and ensure that all requirements are implemented.
- To review ozone monitoring and precursor emissions data to evaluate and prioritize emission control strategies for these precursors.
- To review PM₁₀ monitoring and emissions data to evaluate and prioritize control strategies.
- To ensure that technical support regarding air quality is provided to the jurisdictions and PAG programs.
- To provide pertinent technical air quality information to the public.
- To ensure that transportation plans and programs do not adversely affect air quality implementation plans.
- To maintain a regional air quality planning process for decision-making and participate in the development of plans, programs, policies and agreements, as appropriate.
- To collect and maintain an emissions inventory database as a planning tool to improve our understanding of air pollutant emissions in the Tucson region.

Air Quality in the Tucson Region

Pima Association of Governments (PAG)
www.pagnet.org • (520) 792-1093

Pollutants of Regional Concern

Carbon Monoxide (CO):

National Ambient Air Quality Standards:

- 1-hour average: 35 ppm
- 8-hour average: 9 ppm

Ozone (O₃):

National Ambient Air Quality Standard:

- 8-hour average: 0.08 ppm

Particulate Matter (PM):

PM Coarse (diameter <10µm)

National Ambient Air Quality Standards:

- 24-hour average: 150µg/m³

PM Fine (diameter <2.5µm)

National Ambient Air Quality Standards:

- 24-hour average: 65µg/m³
- Annual average: 35µg/m³

Other NAAQS Pollutants:

Visibility/Regional Haze:

National Ambient Air Quality Standards (NAAQS) History and Current Status

- In attainment – under a Limited Maintenance Plan (LMP), effective 7/10/2000
- Currently monitoring CO levels at only one-third of the health standard
- Last violation of the 8-hour standard in 1984
- Low likelihood of violating the NAAQS

- In attainment
- Currently monitoring ozone levels at about 85% of the health standard
- Meteorology plays a critical role in ozone formation and dispersion

- In attainment – under a Natural Events Action Plan (NEAP)
- Violated the PM₁₀ 24-hour standard in 1999 (all exceedances now flagged as natural events)

- In attainment

- In attainment for nitrogen dioxide (NO₂), sulfur dioxide (SO₂) and lead (Pb)
- Low likelihood of violating these NAAQS

- Visibility/brown cloud of regional concern with Class I Areas (Saguaro National Park)

Related Regional Plans, Reports and Studies

- CO Limited Maintenance Plan (CO LMP) (approved by EPA on 4/24/2000), effective date of 7/10/2000
 - In operation for 10 years (until 7/10/2010)
 - Renewal of CO LMP, due 7/10/2008
- CO Progress Report (produced annually)
- 2000 On-Road Mobile Source Emissions Inventory (9/2004)

- 2000 On-Road Mobile Source Emissions Inventory (9/2004)
- 2003 Ozone Status Report (9/2003)
- Evaluation of the Cost of Ozone Nonattainment and Ozone Control Measures in Pima County (12/20/1999)

- EPA's Natural Events Policy
- ADEQ's Air Quality Exceptional and Natural Events Policy
- Pima County NEAP. The plan was submitted to ADEQ on 6/21/2001 and was then forwarded on to EPA. The Pima County Board of Supervisors adopted a new ordinance related to the NEAP on 12/03/2002.
- PAG Dirt Road Inventory (ongoing)

- Arizona Regional Haze State Implementation Plan (SIP) under Section 309 of the federal Regional Haze Rule for Class I wilderness areas on the Colorado Plateau (12/2003)

Local Agency Responsibilities Regarding Plans and Studies

- PAG: Modeling analysis of on-road regional emissions and hot-spot levels. If a violation occurs, contingency measures outlined in the CO LMP apply.
- PDEQ: CO monitoring; Use mobile monitor for 90 days during the CO season. Added a microscale monitor in 2002/2003. Notify PAG if CO > 85% of the 8-hour standard.

- PAG: Conducted an on-road mobile source emissions inventory using the EPA MOBILE 6.2 model (2004). Also, conducted an emissions inventory of stationary point and area, as well as nonroad mobile sources (2001).
- PDEQ: Conducted a VOC Sampling Study (2001)
- PAG/PDEQ: Assess proactive control measures

- PAG: Conduct a dirt-road emissions inventory
- PDEQ: Developed the NEAP in cooperation with ADEQ. Implemented Best Available Control Measures (BACM), including a 20% opacity standard on fugitive dust sources, an outreach program for protection of public health, and additional enforcement.

- PAG/PDEQ: Participating in the development of the Arizona Regional Haze SIPs and related rules. The Regional Haze 309(g) SIP, including Saguaro National Park, is due 1/2008.