**Ozone Air Quality Data Update**
**2002-2004**

The following is a brief summary of EPA's 2004 air quality update for the 8-hour ozone air quality monitoring data for the three year period, 2002-2004. During this current three year period,

- 84 of the 126 areas designated nonattainment for the 8-hour ozone National Ambient Air Quality Standard (NAAQS) failed to meet the NAAQS in 2002-2004 (Table 1).

- 3 additional unclassifiable/attainment areas failed to meet the O3 NAAQS in 2002-2004 (Table 2).

The EPA set the 8-hour $O_3$ standard at 0.08 parts per million (ppm). If the level of the 8-hour $O_3$ 3-year average of the annual $4^{th}$ highest daily maximum 8-hour $O_3$ concentration is greater than 0.08 ppm (0.085 rounds up), then the standard is not met.

Air quality data from EPA's Air Quality System (AQS) was used to calculate design values. The specific calculation is explained in the notes. The data used for these calculations were obtained from AQS on July 22, 2005. No regulatory decisions on attainment status have been made for areas based upon these specific data. For more information concerning these data contact:

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## Table 1. Areas previously designated nonattainment for $O_3$.

| State | Nonattainment Area | Region | 2002-2004 Design Value | Meet NAAQS 2002-2004 |
|---|---|---|---|---|
| AL | Birmingham, AL | 04 | 0.085 | No |
| AZ | Phoenix-Mesa, AZ | 09 | 0.085 | No |
| CA | Amador and Calaveras Cos (Central Mtn), CA | 09 | 0.09 | No |
| CA | Imperial Co, CA | 09 | 0.085 | No |
| CA | Ventura Co, CA | 09 | 0.094 | No |
| CA | Chico, CA | 09 | 0.088 | No |
| CA | Kern Co (Eastern Kern), CA | 09 | 0.092 | No |
| CA | Los Angeles-San Bernardino Cos(W Mojave),CA | 09 | 0.107 | No |
| CA | Los Angeles South Coast Air Basin, CA | 09 | 0.127 | No |
| CA | Mariposa and Tuolumne Cos (Southern Mtn),CA | 09 | 0.09 | No |
| CA | Nevada Co. (Western Part), CA | 09 | 0.097 | No |
| CA | Riverside Co, (Coachella Valley), CA | 09 | 0.104 | No |
| CA | Sacramento Metro, CA | 09 | 0.102 | No |
| CA | San Diego, CA | 09 | 0.089 | No |
| CA | San Joaquin Valley, CA | 09 | 0.116 | No |
| CA | Sutter Co (Sutter Buttes), CA | 09 | 0.09 | No |
| CA | San Francisco Bay Area, CA | 09 | 0.084 | Yes |
| CO | Denver-Boulder-Greeley-Ft Collins-Love., CO | 08 | 0.084 | Yes |
| CT | Greater Connecticut, CT | 01 | 0.089 | No |
| DC-MD-VA | Washington, DC-MD-VA | 03 | 0.096 | No |
| GA | Atlanta, GA | 04 | 0.093 | No |
| GA | Macon, GA | 04 | 0.086 | No |
| GA | Murray Co (Chattahoochee Nat Forest), GA | 04 | 0.083 | Yes |
| IL-IN | Chicago-Gary-Lake County, IL-IN | 05 | 0.094 | No |
| IN | La Porte, IN | 05 | 0.086 | No |
| IN | Fort Wayne, IN | 05 | 0.085 | No |
| IN | Indianapolis, IN | 05 | 0.092 | No |
| IN | South Bend-Elkhart, IN | 05 | 0.088 | No |
| IN | Greene Co, IN | 05 | 0.084 | Yes |
| IN | Jackson Co, IN | 05 | 0.08 | Yes |
| IN | Evansville, IN | 05 | 0.083 | Yes |
| IN | Muncie, IN | 05 | 0.083 | Yes |
| IN | Terre Haute, IN | 05 | 0.083 | Yes |
| KY-IN | Louisville, KY-IN | 04,05 | 0.088 | No |
| LA | Baton Rouge, LA | 06 | 0.089 | No |
| ME | Hancock, Knox, Lincoln & Waldo Cos, ME | 01 | 0.088 | No |
| ME | Portland, ME | 01 | 0.084 | Yes |
| MD | Baltimore, MD | 03 | 0.094 | No |
| MD | Kent and Queen Anne's Cos, MD | 03 | 0.089 | No |
| MD | Washington Co (Hagerstown), MD | 03 | 0.083 | Yes |
| MA | Boston-Lawrence-Worcester (E. MA), MA | 01 | 0.091 | No |
| MA | Springfield (Western MA), MA | 01 | 0.09 | No |

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|---|---|---|---|---|
| MI | Benton Harbor, MI | 05 | 0.086 | No |
| MI | Detroit-Ann Arbor, MI | 05 | 0.092 | No |
| MI | Allegan Co, MI | 05 | 0.093 | No |
| MI | Cass Co, MI | 05 | 0.089 | No |
| MI | Flint, MI | 05 | 0.085 | No |
| MI | Muskegon, MI | 05 | 0.086 | No |
| MI | Benzie Co, MI | 05 | 0.083 | Yes |
| MI | Huron Co, MI | 05 | 0.08 | Yes |
| MI | Mason Co, MI | 05 | 0.082 | Yes |
| MI | Grand Rapids, MI | 05 | 0.084 | Yes |
| MI | Kalamazoo-Battle Creek, MI | 05 | 0.081 | Yes |
| MI | Lansing-East Lansing, MI | 05 | 0.08 | Yes |
| MO-IL | St Louis, MO-IL | 07,05 | 0.089 | No |
| NV | Las Vegas, NV | 09 | 0.085 | No |
| NH | Boston-Manchester-Portsmouth(SE),NH | 01 | 0.084 | Yes |
| NY | Albany-Schenectady-Troy, NY | 02 | 0.086 | No |
| NY | Buffalo-Niagara Falls, NY | 02 | 0.091 | No |
| NY | Essex Co (Whiteface Mtn), NY | 02 | 0.089 | No |
| NY | Jefferson Co, NY | 02 | 0.086 | No |
| NY | Jamestown, NY | 02 | 0.093 | No |
| NY-NJ-CT | New York-N. New Jersey-Long Island,NY-NJ-CT | 02,01 | 0.095 | No |
| NY | Poughkeepsie, NY | 02 | 0.089 | No |
| NY | Rochester, NY | 02 | 0.081 | Yes |
| NC-SC | Charlotte-Gastonia-Rock Hill, NC-SC | 04 | 0.094 | No |
| NC | Greensboro-Winston Salem-High Point, NC | 04 | 0.087 | No |
| NC | Raleigh-Durham-Chapel Hill, NC | 04 | 0.089 | No |
| NC | Rocky Mount, NC | 04 | 0.085 | No |
| NC | Fayetteville, NC | 04 | 0.084 | Yes |
| NC | Haywood and Swain Cos (Great Smoky NP), NC | 04 | 0.082 | Yes |
| NC | Hickory-Morganton-Lenoir, NC | 04 | 0.082 | Yes |
| OH | Canton-Massillon, OH | 05 | 0.086 | No |
| OH-KY-IN | Cincinnati-Hamilton, OH-KY-IN | 05,04 | 0.091 | No |
| OH | Cleveland-Akron-Lorain, OH | 05 | 0.095 | No |
| OH | Columbus, OH | 05 | 0.091 | No |
| OH | Dayton-Springfield, OH | 05 | 0.087 | No |
| OH | Lima, OH | 05 | 0.087 | No |
| OH | Toledo, OH | 05 | 0.089 | No |
| OH-PA | Youngstown-Warren-Sharon, OH-PA | 05,03 | 0.091 | No |
| OH-WV | Steubenville-Weirton, OH-WV | 05,03 | 0.083 | Yes |
| PA | Allentown-Bethlehem-Easton, PA | 03 | 0.088 | No |
| PA | Clearfield and Indiana Cos, PA | 03 | 0.085 | No |
| PA | Erie, PA | 03 | 0.087 | No |
| PA | Lancaster, PA | 03 | 0.087 | No |
| PA | Franklin Co, PA | 03 | 0.085 | No |
| PA | Tioga Co, PA | 03 | 0.085 | No |
| PA-NJ-MD-DE | Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE | 03,02 | 0.099 | No |
| PA | Pittsburgh-Beaver Valley, PA | 03 | 0.09 | No |
| PA | York, PA | 03 | 0.086 | No |

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|---|---|---|---|---|
| PA | Altoona, PA | 03 | 0.081 | Yes |
| PA | Harrisburg-Lebanon-Carlisle, PA | 03 | 0.082 | Yes |
| PA | Johnstown, PA | 03 | 0.08 | Yes |
| PA | Greene Co, PA | 03 | 0.084 | Yes |
| PA | Reading, PA | 03 | 0.083 | Yes |
| PA | Scranton-Wilkes-Barre, PA | 03 | 0.081 | Yes |
| PA | State College, PA | 03 | 0.084 | Yes |
| RI | Providence (All RI), RI | 01 | 0.09 | No |
| SC | Columbia, SC | 04 | 0.086 | No |
| SC | Greenville-Spartanburg-Anderson, SC | 04 | 0.084 | Yes |
| TN-GA | Chattanooga, TN-GA | 04 | 0.086 | No |
| TN | Knoxville, TN | 04 | 0.091 | No |
| TN-AR | Memphis, TN-AR | 04,06 | 0.087 | No |
| TN-KY | Clarksville-Hopkinsville, TN-KY | 04 | 0.082 | Yes |
| TN | Johnson City-Kingsport-Bristol, TN | 04 | 0.084 | Yes |
| TN | Nashville, TN | 04 | 0.083 | Yes |
| TX | Beaumont-Port Arthur, TX | 06 | 0.092 | No |
| TX | Dallas-Fort Worth, TX | 06 | 0.098 | No |
| TX | Houston-Galveston-Brazoria, TX | 06 | 0.101 | No |
| TX | San Antonio, TX | 06 | 0.091 | No |
| VA | Norfolk-Virginia Beach-Newport News (HR),VA | 03 | 0.086 | No |
| VA | Richmond-Petersburg, VA | 03 | 0.09 | No |
| VA | Fredericksburg, VA | 03 | 0.084 | Yes |
| VA | Madison and Page Cos (Shenandoah NP), VA | 03 | 0.082 | Yes |
| VA | Frederick Co, VA | 03 | 0.078 | Yes |
| VA | Roanoke, VA | 03 | 0.079 | Yes |
| WV-KY | Huntington-Ashland, WV-KY | 03,04 | 0.086 | No |
| WV | Berkeley and Jefferson Counties, WV | 03 | 0.08 | Yes |
| WV | Charleston, WV | 03 | 0.081 | Yes |
| WV-OH | Parkersburg-Marietta, WV-OH | 03,05 | 0.084 | Yes |
| WV-OH | Wheeling, WV-OH | 03,05 | 0.078 | Yes |
| WI | Milwaukee-Racine, WI | 05 | 0.094 | No |
| WI | Door Co, WI | 05 | 0.088 | No |
| WI | Kewaunee Co, WI | 05 | 0.087 | No |
| WI | Sheboygan, WI | 05 | 0.092 | No |
| WI | Manitowoc Co, WI | 05 | 0.083 | Yes |

**Table 2. Additional areas failing to meet the $O_3$ NAAQS in 2002-2004.**

| State | County | 2002-2004 Design Value |
|---|---|---|
| CA | San Bernardino (Trona) | 0.086 |
| CA | Tehama | 0.085 |
| TX | Travis (Austin) | 0.085 |

Notes:

[1] The level of the 8-hour ozone (O3) National Ambient Air Quality Standard (NAAQS) is 0.08 parts per million (ppm).

The air quality design value for the 8-hour O3 NAAQS is the 3-year average of the annual 4th highest daily maximum 8-hour O3 concentration. The 8-hour O3 NAAQS is not met when the 8-hour ozone design value is greater than 0.08 ppm (85 ppb rounds up). Flagged data is removed from calculations only if it has been agreed to by the appropriate Regional Office.