

O₃ Air Quality Data Update 2005-2007 Design Values

The following is a brief summary of EPA's 2007 air quality update for the 8-hour ozone (O₃) air quality monitoring data for the three year period, 2005-2007. This summary and the data in Tables 1-2 are based on the 1997 8-hour O₃ standard at 0.08 parts per million (ppm). If the level of the 3-year average of the annual 4th highest daily maximum 8-hour O₃ concentration is greater than 0.08 ppm (0.085 rounds up), then the standard is not met. During this current three year period,

- 51 of the 126 areas originally designated nonattainment for the 8-hour O₃ National Ambient Air Quality Standard (NAAQS) failed to meet the 1997 8-hour O₃ NAAQS in 2005-2007 (Table 1).
- 2 of the areas originally designated nonattainment had incomplete data.
- As of July 18, 2008, 56 of the 126 areas originally designated nonattainment for the 8-hour O₃ NAAQS are classified as maintenance areas, meaning they have been redesignated to attainment.
- 6 additional unclassifiable/attainment areas failed to meet the O₃ NAAQS in 2005-2007 (Table 2).

On March 12, 2008, EPA revised the 8-hour O₃ standard to be 0.075 parts per million (ppm). If the level of the 3-year average of the annual 4th highest daily maximum 8-hour O₃ concentration is greater than 0.075 ppm, then the standard is not met. County level data based on the 2008 8-Hour Ozone Standard are available in the downloadable spreadsheet file.

Air quality data from EPA's Air Quality System (AQS) were 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 16, 2008. Detailed 2005-2007 information for all ozone monitors is available in the downloadable spreadsheet file. For more information concerning these data contact:

Lance McCluney
U.S. Environmental Protection Agency
Air Quality Analysis Group (C304-04)
Research Triangle Park, NC 27711
(919) 541-4820, (919) 541-3613 (FAX)
mccluney.lance@epa.gov

Table 1

Table 1. Areas previously designated nonattainment for the 1997 8-hour O₃ NAAQS.

<u>Designated Nonattainment Area</u>	<u>State</u>	<u>EPA Region</u>	<u>Classification</u>	<u>Designation Status¹</u>	<u>2005-2007</u>	<u>Met 1997</u>
					<u>Design Value²</u>	<u>NAAQS 2005-2007?</u>
Albany-Schenectady-Troy, NY	NY	02	Subpart 1/Basic	Nonattainment	0.079	Yes
Allegan Co, MI	MI	05	Subpart 1/Basic	Nonattainment	0.093	No
Allentown-Bethlehem-Easton, PA	PA	03	Subpart 1/Basic	Maintenance	0.082	Yes
Altoona, PA	PA	03	Subpart 1/Basic	Maintenance	0.073	Yes
Amador and Calaveras Cos (Central Mtn), CA	CA	09	Subpart 1/Basic	Nonattainment	0.090	No
Atlanta, GA	GA	04	Subpart 2/Marginal	Nonattainment	0.095	No
Baltimore, MD	MD	03	Subpart 2/Moderate	Nonattainment	0.094	No
Baton Rouge, LA	LA	06	Subpart 2/Marginal	Nonattainment	0.089	No
Beaumont-Port Arthur, TX	TX	06	Subpart 2/Marginal	Nonattainment	0.083	Yes
Benton Harbor, MI	MI	05	Subpart 1/Basic	Maintenance	0.084	Yes
Benzie Co, MI	MI	05	Subpart 1/Basic	Maintenance	0.082	Yes
Berkeley and Jefferson Counties, WV	WV	03	Subpart 1/EAC	Nonattainment	0.075	Yes
Birmingham, AL	AL	04	Subpart 1/Basic	Maintenance	0.089	No
Boston-Lawrence-Worcester (E. MA), MA	MA	01	Subpart 2/Moderate	Nonattainment	0.086	No
Boston-Manchester-Portsmouth(SE),NH	NH	01	Subpart 2/Moderate	Nonattainment	0.078	Yes
Buffalo-Niagara Falls, NY	NY	02	Subpart 1/Basic	Nonattainment	0.086	No
Canton-Massillon, OH	OH	05	Subpart 1/Basic	Maintenance	0.082	Yes
Cass Co, MI	MI	05	Subpart 2/Marginal	Maintenance	0.080	Yes
Charleston, WV	WV	03	Subpart 1/Basic	Maintenance	0.079	Yes
Charlotte-Gastonia-Rock Hill, NC-SC	NC-SC	04	Subpart 2/Moderate	Nonattainment	0.093	No
Chattanooga, TN-GA	TN-GA	04	Subpart 1/EAC	Nonattainment	0.084	Yes
Chicago-Gary-Lake County, IL-IN	IL-IN	05	Subpart 2/Moderate	Nonattainment	0.085	No
Chico, CA	CA	09	Subpart 1/Basic	Nonattainment	0.084	Yes
Cincinnati-Hamilton, OH-KY-IN	OH-KY-IN	05,04	Subpart 1/Basic	Nonattainment	0.088	No
Clarksville-Hopkinsville, TN-KY	TN-KY	04	Subpart 1/Basic	Maintenance	0.081	Yes
Clearfield and Indiana Cos, PA	PA	03	Subpart 1/Basic	Nonattainment	0.080	Yes
Cleveland-Akron-Lorain, OH	OH	05	Subpart 2/Moderate	Nonattainment	0.090	No
Columbia, SC	SC	04	Subpart 1/EAC	Nonattainment	0.082	Yes
Columbus, OH	OH	05	Subpart 1/Basic	Nonattainment	0.087	No
Dallas-Fort Worth, TX	TX	06	Subpart 2/Moderate	Nonattainment	0.095	No
Dayton-Springfield, OH	OH	05	Subpart 1/Basic	Maintenance	0.080	Yes
Denver-Boulder-Greeley-Ft Collins-Love., CO	CO	08	Subpart 1/EAC	Nonattainment	0.085	No
Detroit-Ann Arbor, MI	MI	05	Subpart 2/Marginal	Nonattainment	0.086	No
Door Co, WI	WI	05	Subpart 1/Basic	Nonattainment	0.090	No
Erie, PA	PA	03	Subpart 1/Basic	Maintenance	0.082	Yes
Essex Co (Whiteface Mtn), NY	NY	02	Subpart 1/Basic	Nonattainment		Incomplete
Evansville, IN	IN	05	Subpart 1/Basic	Maintenance	0.080	Yes
Fayetteville, NC	NC	04	Subpart 1/EAC	Nonattainment	0.082	Yes
Flint, MI	MI	05	Subpart 1/Basic	Maintenance	0.079	Yes
Fort Wayne, IN	IN	05	Subpart 1/Basic	Maintenance	0.078	Yes
Franklin Co, PA	PA	03	Subpart 1/Basic	Maintenance	0.072	Yes
Frederick Co, VA	VA	03	Subpart 1/EAC	Nonattainment	0.073	Yes
Fredericksburg, VA	VA	03	Subpart 2/Moderate	Maintenance	0.085	No
Grand Rapids, MI	MI	05	Subpart 1/Basic	Maintenance	0.085	No
Greater Connecticut, CT	CT	01	Subpart 2/Moderate	Nonattainment	0.091	No
Greene Co, IN	IN	05	Subpart 1/Basic	Maintenance	0.079	Yes

Table1

Table 1. Areas previously designated nonattainment for the 1997 8-hour O₃ NAAQS.

Greene Co, PA	PA	03	Subpart 1/Basic	Nonattainment	0.080	Yes
Greensboro-Winston Salem-High Point, NC	NC	04	Subpart 2/Marginal/EAC	Nonattainment	0.083	Yes
Greenville-Spartanburg-Anderson, SC	SC	04	Subpart 1/EAC	Nonattainment	0.083	Yes
Hancock, Knox, Lincoln & Waldo Cos, ME	ME	01	Subpart 1/Basic	Maintenance	0.083	Yes
Harrisburg-Lebanon-Carlisle, PA	PA	03	Subpart 1/Basic	Maintenance	0.081	Yes
Haywood and Swain Cos (Great Smoky NP), NC	NC	04	Subpart 1/Basic	Nonattainment	0.078	Yes
Hickory-Morganton-Lenoir, NC	NC	04	Subpart 1/EAC	Nonattainment	0.079	Yes
Houston-Galveston-Brazoria, TX	TX	06	Subpart 2/Moderate	Nonattainment	0.096	No
Huntington-Ashland, WV-KY	WV-KY	03,04	Subpart 1/Basic	Maintenance	0.084	Yes
Huron Co, MI	MI	05	Subpart 1/Basic	Maintenance	0.078	Yes
Imperial Co, CA	CA	09	Subpart 2/Marginal	Nonattainment	0.087	No
Indianapolis, IN	IN	05	Subpart 1/Basic	Maintenance	0.081	Yes
Jackson Co, IN	IN	05	Subpart 1/Basic	Maintenance	0.076	Yes
Jamestown, NY	NY	02	Subpart 1/Basic	Nonattainment	0.086	No
Jefferson Co, NY	NY	02	Subpart 2/Moderate	Nonattainment	0.079	Yes
Johnson City-Kingsport-Bristol, TN	TN	04	Subpart 1/EAC	Nonattainment	0.083	Yes
Johnstown, PA	PA	03	Subpart 1/Basic	Maintenance	0.074	Yes
Kalamazoo-Battle Creek, MI	MI	05	Subpart 1/Basic	Maintenance	0.076	Yes
Kent and Queen Anne's Cos, MD	MD	03	Subpart 2/Marginal	Maintenance	0.083	Yes
Kern Co (Eastern Kern), CA	CA	09	Subpart 1/Basic	Nonattainment	0.085	No
Kewaunee Co, WI	WI	05	Subpart 1/Basic	Maintenance	0.083	Yes
Knoxville, TN	TN	04	Subpart 1/Basic	Nonattainment	0.088	No
La Porte, IN	IN	05	Subpart 2/Marginal	Maintenance	0.077	Yes
Lancaster, PA	PA	03	Subpart 2/Marginal	Maintenance	0.084	Yes
Lansing-East Lansing, MI	MI	05	Subpart 1/Basic	Maintenance	0.077	Yes
Las Vegas, NV	NV	09	Subpart 1/Basic	Nonattainment	0.086	No
Lima, OH	OH	05	Subpart 1/Basic	Maintenance	0.078	Yes
Los Angeles South Coast Air Basin, CA	CA	09	Subpart 2/Severe17	Nonattainment	0.122	No
Los Angeles-San Bernardino Cos(W Mojave),CA	CA	09	Subpart 2/Moderate	Nonattainment	0.103	No
Louisville, KY-IN	KY-IN	04,05	Subpart 1/Basic	Maintenance	0.085	No
Macon, GA	GA	04	Subpart 1/Basic	Maintenance	0.081	Yes
Madison and Page Cos (Shenandoah NP), VA	VA	03	Subpart 1/Basic	Maintenance	0.076	Yes
Manitowoc Co, WI	WI	05	Subpart 1/Basic	Nonattainment	0.086	No
Mariposa and Tuolumne Cos (Southern Mtn),CA	CA	09	Subpart 1/Basic	Nonattainment	0.085	No
Mason Co, MI	MI	05	Subpart 1/Basic	Maintenance	0.081	Yes
Memphis, TN-AR	TN-AR	04,06	Subpart 2/Marginal	Nonattainment	0.089	No
Milwaukee-Racine, WI	WI	05	Subpart 2/Moderate	Nonattainment	0.085	No
Muncie, IN	IN	05	Subpart 1/Basic	Maintenance	0.077	Yes
Murray Co (Chattahoochee Nat Forest), GA	GA	04	Subpart 1/Basic	Maintenance	0.079	Yes
Muskegon, MI	MI	05	Subpart 2/Marginal	Maintenance	0.088	No
Nashville, TN	TN	04	Subpart 1/EAC	Nonattainment	0.084	Yes
Nevada Co. (Western Part), CA	CA	09	Subpart 1/Basic	Nonattainment	0.095	No
New York-N. New Jersey-Long Island,NY-NJ-CT	NY-NJ-CT	02,01	Subpart 2/Moderate	Nonattainment	0.094	No
Norfolk-Virginia Beach-Newport News (HR),VA	VA	03	Subpart 2/Marginal	Maintenance	0.076	Yes
Parkersburg-Marietta, WV-OH	WV-OH	03,05	Subpart 1/Basic	Maintenance	0.085	No
Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE	PA-NJ-MD-DE	03,02	Subpart 2/Moderate	Nonattainment	0.093	No
Phoenix-Mesa, AZ	AZ	09	Subpart 1/Basic	Nonattainment	0.083	Yes
Pittsburgh-Beaver Valley, PA	PA	03	Subpart 1/Basic	Nonattainment	0.087	No
Portland, ME	ME	01	Subpart 2/Marginal	Maintenance	0.075	Yes

Table1

Table 1. Areas previously designated nonattainment for the 1997 8-hour O₃ NAAQS.

Poughkeepsie, NY	NY	02	Subpart 2/Moderate	Nonattainment	0.085	No
Providence (All RI), RI	RI	01	Subpart 2/Moderate	Nonattainment	0.086	No
Raleigh-Durham-Chapel Hill, NC	NC	04	Subpart 1/Basic	Maintenance	0.081	Yes
Reading, PA	PA	03	Subpart 1/Basic	Maintenance		Incomplete
Richmond-Petersburg, VA	VA	03	Subpart 2/Marginal	Maintenance	0.085	No
Riverside Co, (Coachella Valley), CA	CA	09	Subpart 2/Serious	Nonattainment	0.101	No
Roanoke, VA	VA	03	Subpart 1/EAC	Nonattainment	0.076	Yes
Rochester, NY	NY	02	Subpart 1/Basic	Nonattainment	0.080	Yes
Rocky Mount, NC	NC	04	Subpart 1/Basic	Maintenance	0.077	Yes
Sacramento Metro, CA	CA	09	Subpart 2/Serious	Nonattainment	0.098	No
San Antonio, TX	TX	06	Subpart 1/EAC	Nonattainment	0.082	Yes
San Diego, CA	CA	09	Subpart 1/Basic	Nonattainment	0.089	No
San Francisco Bay Area, CA	CA	09	Subpart 2/Marginal	Nonattainment	0.077	Yes
San Joaquin Valley, CA	CA	09	Subpart 2/Serious	Nonattainment	0.107	No
Scranton-Wilkes-Barre, PA	PA	03	Subpart 1/Basic	Maintenance	0.077	Yes
Sheboygan, WI	WI	05	Subpart 2/Moderate	Nonattainment	0.089	No
South Bend-Elkhart, IN	IN	05	Subpart 1/Basic	Maintenance	0.079	Yes
Springfield (Western MA), MA	MA	01	Subpart 2/Moderate	Nonattainment	0.092	No
St Louis, MO-IL	MO-IL	07,05	Subpart 2/Moderate	Nonattainment	0.089	No
State College, PA	PA	03	Subpart 1/Basic	Maintenance	0.078	Yes
Steubenville-Weirton, OH-WV	OH-WV	05,03	Subpart 1/Basic	Maintenance	0.080	Yes
Sutter Co (Sutter Buttes), CA	CA	09	Subpart 1/Basic	Nonattainment	0.081	Yes
Terre Haute, IN	IN	05	Subpart 1/Basic	Maintenance	0.073	Yes
Tioga Co, PA	PA	03	Subpart 1/Basic	Maintenance	0.075	Yes
Toledo, OH	OH	05	Subpart 1/Basic	Maintenance	0.080	Yes
Ventura Co, CA	CA	09	Subpart 2/Moderate	Nonattainment	0.088	No
Washington Co (Hagerstown), MD	MD	03	Subpart 1/EAC	Nonattainment	0.079	Yes
Washington, DC-MD-VA	DC-MD-VA	03	Subpart 2/Moderate	Nonattainment	0.091	No
Wheeling, WV-OH	WV-OH	03,05	Subpart 1/Basic	Maintenance	0.082	Yes
York, PA	PA	03	Subpart 1/Basic	Maintenance	0.083	Yes
Youngstown-Warren-Sharon, OH-PA	OH-PA	05,03	Subpart 1/Basic	Maintenance	0.084	Yes

Notes:

1. Status as of July 18, 2008.

2. 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 level of the 1997 8-hour ozone (O₃) National Ambient Air Quality Standard (NAAQS) is 0.08 parts per million (ppm).
- The 1997 8-hour O₃ NAAQS is not met when the 8-hour O₃ design value is greater than 0.08 ppm (0.085 ppm rounds up).
- 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.

Table2

Table 2. Additional areas failing to meet the 1997 O₃ NAAQS in 2005-2007.

<u>State</u>	<u>County</u>	<u>EPA Region</u>	<u>2005-2007 Design Value1</u>	<u>Site</u>	<u>POC</u>	<u>CBSA</u>
Louisiana	Pointe Coupee	06	0.086	220770001	1	Baton Rouge, LA
Mississippi	DeSoto	04	0.085	280330002	1	Memphis, TN-MS-AR
Missouri	Clay	07	0.087	290470005	1	Kansas City, MO-KS
Missouri	Clinton	07	0.085	290490001	1	Kansas City, MO-KS
Missouri	Lincoln	07	0.087	291130003	1	St. Louis, MO-IL
Utah	Davis	08	0.085	490110004	1	Ogden-Clearfield, UT

Notes:

1. 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 level of the 1997 8-hour ozone (O₃) National Ambient Air Quality Standard (NAAQS) is 0.08 parts per million (ppm).
- The 1997 8-hour O₃ NAAQS is not met when the 8-hour O₃ design value is greater than 0.08 ppm (0.085 ppm rounds up).
- 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.