PM₁₀ Air Quality Data Update 2006-2008 Design Values

The following is a brief summary of EPA's air quality update for PM_{10} based on ambient monitoring data for the three-year period, 2006-2008. During this three-year period:

- Nineteen of the original 88* areas designated nonattainment for the PM₁₀ NAAQS, including one area that was subsequently redesignated to attainment (San Joaquin Valley, CA.) violated the NAAQS (Table 1).
- Thirty-five of the original 88* areas designated nonattainment for the PM₁₀ NAAQS met the (24-hour) PM₁₀ NAAQS in 2006-2008. (Table 1).
 - o Ten of these 35 areas are still designated nonattainment and 25 have been redesignated to attainment.
- Thirty-three of the original 88* areas designated nonattainment for PM₁₀ had incomplete or no data for 2006-2008.
 - o Eighteen of these 33 areas are still designated nonattainment and 15 have been redesignated to attainment.
- Thirty-three additional areas (counties), outside of the original 88^* designated nonattainment areas, also failed to meet the (24-hour) PM₁₀ NAAQS in 2006-2008 (Table 2).

Two primary PM_{10} standards were established by the EPA in 1987 for the protection of public health. The 1987 PM_{10} NAAQS consisted of both a short-term (24-hour) standard and a long-term (annual) standard. The EPA set the 24-hour PM_{10} standard at 150 micrograms per cubic meter ($\mu g/m3$) and the annual PM_{10} standard at 50 $\mu g/m3$. After the latest review of the PM NAAQS, the EPA revoked the annual PM_{10} standard effective December 2007. Compliance with the 24-hour standard is judged on the basis of the most recent three years of ambient air quality monitoring data. The 24-hour PM_{10} standard is not met at a monitoring site if the average number of estimated exceedances of the level of the standard is greater than 1.0 (1.05 rounds up).

Air quality data from EPA's Air Quality System (AQS) were used to calculate PM₁₀ estimated exceedances. The specific calculations are explained in footnotes to the tables. Most data used for these calculations were obtained from AQS on July 7, 2009; in some isolated situations, site data were re-extracted at later dates to encompass subsequent AQS changes. As of August 15, 2009, no regulatory decisions on attainment status have been made for any area based on these specific calculations.

For information concerning these data and/or calculations, contact:

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^{*} Previously, the count of original, designated nonattainment areas was listed as 87. In November 2008, the San Joaquin Valley nonattainment area was split into two separate areas, San Joaquin Valley and East Kern.

Table 1. Areas previously designated nonattainment for the PM_{10} NAAQS, 2006-2008.

2006-2008 Expected Number of

| | | EPA | Designation | Area | Exceedances 2, 3, | Met NAAQS | |
|-------|------------------------------|------------|---------------------|-----------------------|-------------------|-------------------------|----------------------|
| State | Designated Area | Region | Status ¹ | <u>Classification</u> | 4, 5, 6, 7 | 2006-2008? ⁷ | Comment ⁶ |
| AK | Eagle River | 10 | Nonattainment | Moderate | 2.0 | no | |
| AK | Juneau | 10 | Nonattainment | Moderate | 0.0 | incomplete | |
| AZ | Ajo | 9 | Nonattainment | Moderate | 0.0 | incomplete | |
| AZ | Bullhead City | 9 | Maintenance | Moderate | 0.0 | yes | |
| ΑZ | Hayden ⁸ | 9 | Nonattainment | Moderate | 5.2 | no | Test $ExEx = 3.4$ |
| AZ | Miami ⁸ | 9 | Nonattainment | Moderate | 0.0 | incomplete | |
| AZ | Nogales | 9 | Nonattainment | Moderate | 25.0 | no | |
| AZ | Paul Spur / Douglas | 9 | Nonattainment | Moderate | 2.2 | no | |
| AZ | Payson | 9 | Maintenance | Moderate | 0.0 | yes | |
| AZ | Phoenix | 9 | Nonattainment | Serious | 9.9 | no | |
| AZ | Rillito | 9 | Nonattainment | Moderate | 3.7 | no | |
| AZ | Yuma | 9 | Nonattainment | Moderate | 7.6 | no | |
| CA | Coachella Valley | 9 | Nonattainment | Serious | 16.4 | no | Test $ExEx = 10.9$ |
| CA | Coso Junction ⁹ | 9 | Nonattainment | Moderate | <u>1.0</u> | incomplete | |
| CA | East Kern 10 | 9 | Nonattainment | Serious | 0.0 | incomplete | |
| CA | Imperial Valley | 9 | Nonattainment | Moderate | 7.6 | no | |
| CA | Indian Wells Valley 9 | 9 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| CA | Mammoth Lakes | 9 | Nonattainment | Moderate | 0.0 | incomplete | |
| CA | Mono Basin | 9 | Nonattainment | Moderate | 19.4 | no | Test $ExEx = 19.4$ |
| CA | Owens Valley | 9 | Nonattainment | Serious | 10.3 | no | |
| CA | Sacramento County | 9 | Nonattainment | Moderate | 5.8 | yes | Test $ExEx = 1.9$ |
| CA | San Bernardino county (part) | 9 | Nonattainment | Moderate | 3.0 | no | Test $ExEx = 3.0$ |
| CA | San Joaquin Valley 10 | 9 | Maintenance | Serious | 3.5 | no | |
| CA | South Coast Air Basin | 9 | Nonattainment | Serious | 9.8 | no | Test $ExEx = 9.8$ |
| CA | Trona ⁹ | 9 | Nonattainment | Moderate | 1.2 | no | Test $ExEx = 1.2$ |
| CO | Aspen | 8 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| CO | Canon City | 8 | Maintenance | Moderate | 0.0 | yes | |
| CO | Denver | 8 | Maintenance | Moderate | 0.0 | yes | |
| CO | Lamar | 8 | Maintenance | Moderate | 0.7 | yes | |
| CO | Pagosa Springs | 8 | Maintenance | Moderate | 0.0 | yes | |

Table 1. Areas previously designated nonattainment for the PM₁₀ NAAQS, 2006-2008.

2006-2008 Expected Number of

| | | EPA | Designation | <u>Area</u> | Exceedances 2, 3, | Met NAAQS | |
|-------|----------------------|------------|---------------------|-----------------------|-------------------|------------------------|-----------|
| State | Designated Area | Region | Status ¹ | <u>Classification</u> | 4, 5, 6, 7 | 2006-2008? | Comment 6 |
| CO | Steamboat Springs | 8 | Maintenance | Moderate | 0.0 | incomplete | |
| CO | Telluride | 8 | Maintenance | Moderate | $\overline{0.0}$ | yes | |
| CT | New Haven | 1 | Maintenance | Moderate | <u>ND</u> | <u>ND ⁷</u> | |
| ID | Boise | 10 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| ID | Fort Hall | 10 | Nonattainment | Moderate | <u>1.0</u> | incomplete | |
| ID | Pinehurst | 10 | Nonattainment | Moderate | 0.0 | yes | |
| ID | Portneuf Valley | 10 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| ID | Sandpoint | 10 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| ID | Shoshone County | 10 | Nonattainment | Moderate | 0.0 | yes | |
| IL | Granite City | 5 | Maintenance | Moderate | 0.0 | yes | |
| IL | Lyons Township | 5 | Maintenance | Moderate | 0.0 | yes | |
| IL | Oglesby | 5 | Maintenance | Moderate | 0.0 | yes | |
| IL | Southeast Chicago | 5 | Maintenance | Moderate | 0.0 | yes | |
| IN | East Chicago, Hammon | 5 | Maintenance | Moderate | 0.3 | yes | |
| IN | Vermillion | 5 | Maintenance | Moderate | <u>ND</u> | <u>ND ⁷</u> | |
| ME | Presque Isle | 1 | Maintenance | Moderate | 0.0 | yes | |
| MI | Detroit | 5 | Maintenance | Moderate | 0.3 | yes | |
| MN | Rochester | 5 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| MN | Saint Paul | 5 | Maintenance | Moderate | 0.0 | yes | |
| MT | Butte | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Columbia Falls | 8 | Nonattainment | Moderate | 0.0 | yes | |
| MT | Kalispell | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Lame Deer | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Libby | 8 | Nonattainment | Moderate | 0.0 | yes | |
| MT | Missoula | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Polson | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Ronan | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Thompson Falls | 8 | Nonattainment | Moderate | <u>0.0</u> | incomplete | |
| MT | Whitefish | 8 | Nonattainment | Moderate | <u>0.3</u> | incomplete | |
| NM | Anthony | 6 | Nonattainment | Moderate | 9.5 | no | |
| NV | Las Vegas | 9 | Nonattainment | Serious | 1.1 | no | |

Table 1. Areas previously designated nonattainment for the PM_{10} NAAQS, 2006-2008.

2006-2008 Expected Number of

| State | Designated Area | <u>EPA</u> Region | Designation Status 1 | Area Classification | Exceedances 2, 3, 4, 5, 6, 7 | Met NAAQS 2006-2008? ⁷ | Comment ⁶ |
|--------------|--------------------|----------------------|----------------------|------------------------|------------------------------|--------------------------------------|----------------------|
| NV | Reno | 9 | Nonattainment | Serious | 0.0 | yes | <u> </u> |
| NY | New York | 2 | Nonattainment | Moderate | <u>ND</u> | <u>ND ⁷</u> | |
| OH | Cuyahoga County | 5 | Maintenance | Moderate | 0.0 | yes | |
| ОН | Mingo Junction | 5 | Maintenance | Moderate | 0.0 | yes | |
| OR | Eugene/Springfield | 10 | Nonattainment | Moderate | 0.0 | yes | |
| OR | Grants Pass | 10 | Maintenance | Moderate | 0.0 | yes | |
| OR | Klamath Falls | 10 | Maintenance | Moderate | 0.0 | yes | |
| OR | La Grande | 10 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| OR | Lakeview | 10 | Maintenance | Moderate | 0.0 | incomplete | |
| OR | Medford | 10 | Maintenance | Moderate | 0.0 | yes | |
| OR | Oakridge | 10 | Nonattainment | Moderate | 0.0 | yes | |
| PA | Clairton | 3 | Maintenance | Moderate | 0.0 | yes | |
| PR | Guaynabo | 2 | Nonattainment | Moderate | 0.0 | incomplete | |
| TX | El Paso | 6 | Nonattainment | Moderate | 0.0 | yes | |
| UT | Ogden | 8 | Nonattainment | Moderate | 0.0 | yes | |
| UT | Salt Lake County | 8 | Nonattainment | Moderate | 2.9 | no | |
| UT | Utah County | 8 | Nonattainment | Moderate | 1.3 | no | |
| WA | Kent | 10 | Maintenance | Moderate | 0.0 | incomplete | |
| WA | Olympia | 10 | Maintenance | Moderate | 0.0 | incomplete | |
| WA | Seattle | 10 | Maintenance | Moderate | <u>0.0</u> | incomplete | |
| WA | Spokane | 10 | Maintenance | Moderate | <u>0.3</u> | incomplete | |
| WA | Tacoma | 10 | Maintenance | Moderate | 0.0 | incomplete | |
| WA | Wallula | 10 | Maintenance | Serious | 0.8 | yes | |
| WA | Yakima | 10 | Maintenance | Moderate | 0.0 | yes | |
| WV | Follansbee | 3 | Maintenance | Moderate | 0.0 | yes | |
| WV | Weirton | 3 | Maintenance | Moderate | 0.0 | yes | |
| WY | Sheridan | 8 | Nonattainment | Moderate | 0.8 | yes | |

- 1. Area designation status as of Augaust 15, 2009.
- 2. The PM_{10} NAAQS is an exceedance-based standard with a 24-hour averaging time and 150 micrograms per cubic meter (μ g/m³) level; the NAAQS level is not to be exceeded more than once per year on average over three years. If exceedances are detected at monitors that do not operate on a daily sampling schedule, the exceedance count may be inflated to what would be expected if the monitor were operating on a daily sampling schedule; exceptions are granted for a monitor's first exceedance occurrence if monitoring is subsequently increased to a daily schedule. The values shown in the 2006-2008 Expected Number of Exceedances' column are the 3-year averages of the annual expected exceedance counts; values in this column greater than 1.0 (i.e., 1.1 and above) generally indicate a violation of the NAAQS. The computation procedures for calculating estimated expected exceedances follow 40 CFR Part 50, Appendix K (2006). The 3-year average exceedance counts are commonly called PM_{10} exceedance-based design values.
- 3. The updated exceedance-based design values shown here are computed for the 2006-2008 period using federal reference or equivalent PM₁₀ data reported by the States, Tribes, and local agencies to EPA's Air Quality System (AQS) as of July 7, 2009. Concentrations flagged by States, Tribes, and local agencies as exceptional 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.
- 4. In situations where there are two or more FRM/FEM PM_{10} monitors operating at the same site location (i.e., "collocated" monitors ... the additional ones ostensibly for quality assurance, public AQI reporting, and/or instrument comparison purposes), each distinct monitor method combination (i.e., the "primary" monitor(s) ... each POC with a different sampling / analysis methodology code) is used for NAAQS comparisons (assuming all regulatory requirements were met). For this data release, the primary monitor was determined according to the primary monitor designation/indicator in the AQS "monitor_collocations" table. If no such designation was present at the time of the data extraction, then each monitor-method(s) with the lowest numbered POC was assumed to be the primary monitor(s). In this Table (and also in Table 2), only the primary monitors were considered for selection.
- 5. <u>Underlined values</u> are based on incomplete data and are generally not valid for regulatory usage. Either there are no other sites in the area with complete data for this three-year period or a complete site(s) is located in the area but has an expected estimated exceedance value of zero and an incomplete monitor in the area registered the non-zero value shown.
- 6. In some cases, a conclusion that an area has an expected number of exceedances greater than 1.0 and accordingly has not met the PM₁₀ NAAQS in 2006-2008 is based on monitor data that did not meet the minimum 75 percent data capture requirement per quarter (for all 12 quarters). Expected exceedance values greater than 1.0 based on incomplete data are considered valid for regulatory usage per 40 CFR Part 50 Appendix K 2.3(c) if substitution of zeros for the incomplete (e.g., unmonitored) periods results in a 3-year exceedance "test" metric that still exceeds 1.0. These cases are identified in the table by an entry in the "Comment" column that provides a value for "Test ExEx". If the "Test ExEx" value is greater than 1.0 then the entry in the "Met NAAQS 2006-2008 Expected Number of Exceedances" entry will not be underlined. If the "Test ExEx" value is not greater than 1.0 then the entry in the "Met NAAQS 2006-2008?" column will be "incomplete" and the "2006-2008 Expected Number of Exceedances" entry will be underlined 7. ND = No Data. Note that in some cases monitoring has been discontinued, with approval from the EPA, because the affecting sources have been shut down. For example, in the Vermillion, IN the monitor for that area last reported data in 1998; there are no longer any significant sources (former coal mine) so the Region does not think it is necessary to monitor in this rural location.
- 8. On March 28, 2007, EPA approved State of Arizona's boundary redesignation of the Hayden/Miami PM_{10} nonattainment area into two separate PM_{10} nonattainment areas: Hayden and Miami. EPA also made the determination that the Miami PM_{10} nonattainment area is attaining the PM_{10} national ambient air quality standard. Source: http://www.epa.gov/oar/oaqps/greenbk/7214422.html
- 9. On August 6, 2002, EPA finalized certain actions affecting the Searles Valley, California, PM₁₀ nonattainment area, which is located in the rural high desert and includes portions of Inyo, Kern, and San Bernardino Counties. The action splits the Searles Valley nonattainment area into three separate areas: Coso Junction, Indian Wells Valley and Trona. EPA's action also determines that the Trona area attained the PM₁₀ standards by December 31, 1994. On May 7, 2003, EPA finalized approval of the Indian Wells Moderate Area and Maintenance Plan and redesignated the area from nonattainment to attainment for particulate matter (PM₁₀). Source: http://www.epa.gov/region9/air/searlespm/index.html.

10. On November 8, 2008, EPA finalized certain actions affecting the San Joaquin Valley, California, PM₁₀ nonattainment area; the action splits the San Joaquin Valley nonattainment area into two separate areas: San Joaquin Valley and East Kern. EPA's action also determines that the San Joaquin Valley area attained the PM₁₀ standards and redesignated the area from nonattainment to attainment for particulate matter (PM₁₀). Source: http://www.epa.gov/EPA-AIR/2008/November/Day-12/a26500.htm

Table 2. Additional areas (counties) failing to meet the $PM_{10}\ NAAQS$ in 2006-2008.

| <u>State</u> | County | EPA Region | State FIPS | County FIPS | <u>CBSA</u> | 2006-2008 Expected Number of Exceedances ^L 2,3,4 | 2006-2008 <u>Design</u> <u>Value Site</u> ³ | Comment ⁴ |
|--------------|------------------------|---------------|---------------|----------------|--------------------------------------|--|--|--------------------------------|
| AL | Jefferson Matanuska | 4 | 01 | 073 | Birmingham-Hoover, AL | 1.7 | 010736004 | Test ExEx = |
| AK | Susitna | 10 | 02 | 170 | Anchorage, AK | 3.6 | 021700008 | 3.6 |
| ΑZ | Maricopa | 9 | 04 | 013 | Phoenix-Mesa-Scottsdale, AZ | 3.0 | 040134011 | |
| AZ | Pima | 9 | 04 | 019 | Tucson, AZ | 2.0 | 040191026 | |
| AZ | Pinal | 9 | 04 | 021 | Phoenix-Mesa-Scottsdale, AZ | 201.5 | 040213013 | |
| CA | Los Angeles | 9 | 06 | 037 | Los Angeles-Long Beach-Santa Ana, CA | 2.2 | 060379033 | |
| CA | Mendocino | 9 | 06 | 045 | Ukiah, CA | 3.1 | 060450006 | |
| CA | San Diego | 9 | 06 | 073 | San Diego-Carlsbad-San Marcos, CA | 4.1 | 060732007 | |
| CA | Santa Barbara | 9 | 06 | 083 | Santa Barbara-Santa Maria-Goleta, CA | 2.2 | 060831025 | |
| CA | Shasta | 9 | 06 | 089 | Redding, CA | 2.4 | 060890004 | |
| CA | Siskiyou | 9 | 06 | 093 | | 5.0 | 060932001 | Test ExEx = 5.0 Test ExEx = |
| CA | Trinity | 9 | 06 | 105 | | 11.5 | 061050002 | 11.5 |
| CA | Ventura | 9 | 06 | 111 | Oxnard-Thousand Oaks-Ventura, CA | 2.0 | 061113001 | |
| CA | Yolo | 9 | 06 | 113 | SacramentoArden-ArcadeRoseville, CA | 2.2 | 061131003 | |
| СО | Alamosa | 8 | 08 | 003 | | 2.5 | 080030003 | Test ExEx = 2.5 Test ExEx = |
| CO | Garfield | 8 | 08 | 045 | | 1.4 | 080450005 | 1.4 |
| | | | | | | | | Test ExEx = |
| MO | St. Louis City | 7 | 29 | 510 | St. Louis, MO-IL | 21.4 | 295100092 | 7.1 |
| MT | Big Horn | 8 | 30 | 003 | | 3.9 | 300030011 | Test ExEx = 3.9 Test ExEx = |
| MT | Missoula | 8 | 30 | 063 | Missoula, MT | 3.6 | 300630034 | 2.4 |
| NV | Nye | 9 | 32 | 023 | Pahrump, NV | 4.0 | 320230014 | Test ExEx = 4.0 Test ExEx = |
| NM | Dona Ana | 6 | 35 | 013 | Las Cruces, NM | 10.8 | 350130020 | 10.8 |
| NM | Luna | 6 | 35 | 029 | Deming, NM | 8.3 | 350290003 | Test $ExEx = 8.3$ |

Table 2. Additional areas (counties) failing to meet the $PM_{10}\ NAAQS$ in 2006-2008.

| <u>State</u> | County | EPA Region | State FIPS | County FIPS | <u>CBSA</u> | 2006-2008 Expected Number of Exceedances 1. 2,3,4 | 2006-2008 <u>Design</u> <u>Value Site</u> ³ | <u>Comment ⁴</u> Test ExEx = |
|--------------|--------------|---------------|---------------|----------------|---|--|--|--|
| NM | Sandoval | 6 | 35 | 043 | Albuquerque, NM | 3.0 | 350439004 | 3.0 |
| ОН | Wyandot | 5 | 39 | 175 | | 2.2 | 391750008 | Test ExEx = 1.4 Test ExEx = |
| OK | Tulsa | 6 | 40 | 143 | Tulsa, OK | 4.4 | 401430110 | 4.4 |
| PA | Philadelphia | 3 | 42 | 101 | Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 32.9 | 421010649 | Test $ExEx = 32.9$ |
| TX | Harris | 6 | 48 | 201 | Houston-Sugar Land-Baytown, TX | 6.2 | 482011035 | |
| WA | Stevens | 10 | 53 | 065 | | 3.6 | 530650004 | Test ExEx = 2.4 Test ExEx = |
| WY | Albany | 8 | 56 | 001 | Laramie, WY | 2.0 | 560010800 | 1.3 |
| WY | Campbell | 8 | 56 | 005 | Gillette, WY | 6.1 | 560050915 | Test ExEx = 2.0 Test ExEx = |
| WY | Platte | 8 | 56 | 031 | | 2.7 | 560310805 | 2.7 |
| WY | Sweetwater | 8 | 56 | 037 | Rock Springs, WY | 2.8 | 560370847 | Test ExEx = 2.8 Test ExEx = |
| VI | St Croix | 2 | 78 | 010 | | 3.4 | 780100008 | 2.3 |

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2006-2008

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- 2. The updated exceedance-based design values shown here are computed for the 2006-2008 period using federal reference (FRM) or equivalent (FEM) PM₁₀ data reported by the States, Tribes and local governments to EPA's Air Quality System (AQS) as of July 7, 2009. Concentrations flagged by States, Tribes, and local agencies as exceptional events (e.g. high winds, wildfires, volcanic eruptions, construction) and concurred by the EPA Regional Office are not included in the calculation of these design values. To date, no regulatory decisions on attainment status have been made for areas based upon this data. In some cases the data are still under review.
- 3. In situations where there are two or more FRM/FEM PM_{10} monitors operating at the same site location (i.e., "collocated" monitors ... the additional ones ostensibly for quality assurance, public AQI reporting, and/or instrument comparison purposes), each distinct monitor method combination (i.e., the "primary" monitor(s) ... each POC with a different sampling / analysis methodology code) is used for NAAQS comparisons (assuming all regulatory requirements were met). For this data release, the primary monitor was determined according to the primary monitor designation/indicator in the AQS "monitor_collocations" table. If no such designation was present at the time of the data extraction, then each monitor-method(s) with the lowest numbered POC was assumed to be the primary monitor(s). In this Table (and also in Table 1), only the primary monitors were considered for selection.
- 4. In some cases, a conclusion that an area has an expected number of exceedances greater than 1.0 and accordingly has not met the PM₁₀ NAAQS in 2006-2008 is based on site data that did not meet the minimum 75 percent data capture requirement per quarter (for all 12 quarters). Expected exceedance values greater than 1.0 based on incomplete data are considered valid for regulatory usage per 40 CFR Part 50 Appendix K 2.3(c) if substitution of zeros for the incomplete (e.g., unmonitored) periods results in a 3-year exceedance "test" metric that still exceeds 1.0. These cases are identified in the table by an entry in the "Comment" column that provides a value for "Test ExEx". If the "Test ExEx" value is greater than 1.0 then the area appears on this list. If the "Test ExEx" value is not greater than 1.0 then it is not possible to conclude whether the area has attained the NAAQS and the area does not appear on this list at all.