American Lung Association • Earthjustice Environmental Defense Fund Natural Resources Defense Council

October 2, 2008

Ms. Jenny Noonan Edwards Acting Director Office of Air Quality Planning and Standards Office of Air and Radiation U. S. Environmental Protection Agency Research Triangle Park, NC 27711

Re: EPA-HQ-OAR-2007-0562, Federal Register Vol. 73, No. 170, September 2, 2008. Attainment/nonattainment designations for PM_{2.5} National Ambient Air Quality Standards

Dear Ms. Edwards:

The American Lung Association, Earthjustice, the Environmental Defense Fund and the Natural Resources Defense Council appreciate the opportunity to comment on the U. S. Environmental Protection Agency's proposed designations for attainment or nonattainment of the PM $_{2.5}$ National Ambient Air Quality Standards based on your reported 2005-2007 design values. We have attached a list of areas that fail to attain the PM $_{2.5}$ standards. In addition, we have additional comments on the Agency's proposals.

EPA must designate all areas violating the annual standard.

All areas that fail to attain the annual or the 24-hour standard should be designated. Although the Federal Register notice states that these designations are for the PM _{2.5} 24-hour standard, there are many areas that fail to attain the annual standard. We note that your notifications to the states¹ completely failed to discuss the areas that failed to attain the annual standard. Seven areas newly violating the annual standard were completely ignored, despite their 2005-2007 monitoring data that clearly identifies their violation. One of them, Houston-Baytown-Huntsville, TX Combined Statistical Area, has over 5.7 million residents and is the nation's fourth largest city.

Unless the U.S. Environmental Protection Agency officially recognizes the failure of these areas to attain the annual standard, the people who live in those areas will fail to receive the full protection under the Clean Air Act to which they are entitled. Those protections include

¹ U.S. Environmental Protection Agency. *Area Designations for the 24-Hour Fine Particle (PM _{2.5}) Standards*. Posted at <u>http://www.epa.gov/pmdesignations/2006standards/regs.htm#1</u>.

provisions such as attainment and progress plans, New Source Review, reasonably available control technology for existing sources, contingency measures, and other requirements mandated by Congress to protect them from increasing the burden of air pollution in their communities. EPA is legally obligated to enforce the law and provide that protection. Hundreds of thousands will suffer and many will die because the measures to clean up pollution will not be put in place.

The nation has been down this road too many times before. The Clean Air Act requires the EPA to designate nonattainment areas because Congress recognized the need for official recognition of the levels of unhealthy air quality and accountability for reducing those levels. This is not a voluntary program, but one where there is formal, affirmative responsibility for action.

The Act triggers the EPA's duty to promulgate designations upon revision of any NAAQS. Congress directed that such designations must provide for designation as "nonattainment" any area that does not meet the national primary or secondary NAAQS for the pollutant, necessarily including any annual standard for the pollutant. 42 U.S.C. 7407(d)(1). EPA's 2006 revision of the PM_{2.5} NAAQS included revision of the annual standard. Among other things, EPA revised the spatial averaging component of the annual standard. Having revised the annual standard, EPA is obligated under section 107 of the Act to promulgate designations for the revised standard.

EPA's proposed designations to the states provide no explanation of EPA's failure to include designations for violations of the annual standard, and no defensible explanation exists. Agency staff has informally suggested that no designations are required for the annual standard because the 2006 revision did not change the "level" of the standard. But the Act does not limit EPA's designations duty to situations in which the "level" of the standard is changed. Rather, EPA must promulgate designations for any revised standard, without regard to the nature of the revision. Such a conclusion is compelled by the plain language of section 107.

EPA's refusal to make nonattainment designations for the annual standard is also manifestly arbitrary and unreasonable. Congress plainly intended that areas violating the NAAOS be designated nonattainment and subjected to the range of protections set forth in part D. There is no rational and legal basis for EPA to deprive residents of these areas of the protections mandated by Congress. The Act's deadlines for designations, SIP revision, adoption of specific controls, and timely attainment all show that Congress viewed timely attainment of standards as an urgent matter requiring strong measures and expeditious action. It is illegal and wholly irrational for EPA to provide less protection to people breathing unhealthful annual PM 2.5 levels today than to those breathing unhealthful annual levels several years ago when EPA promulgated nonattainment designations for the 1997 PM 2.5 NAAQS - especially given the scientific evidence showing that PM 2.5 is even more dangerous than previously thought. Yet that is precisely the result of EPA's proposed approach. An area with an annual PM 25 design value of 15.2 μ g/m³ at the time of the previous designations is designated "nonattainment", while an area with an even higher annual design value today (e.g., $15.8 \,\mu g/m^3$ in Houston) is treated as being "attainment" or "unclassifiable." There is no conceivable reasoned justification for such an outcome.

EPA must include all counties contributing to or monitoring violations in the nonattainment areas.

First, to explain the rationale for these recommendations, we refer to Section 107 of the Clean Air Act, which defines a nonattainment area as:

"any area that does not meet (or that contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality standard for the pollutant."

Both local sources and transported emissions contribute to the burden of $PM_{2.5}$ pollution in these states. Unless all these sources are included in the nonattainment area and made subject to planning and clean up requirements, these states will struggle to be able to protect public health. The states will need all the opportunities and authority available to them under the Clean Air Act to meet the standard by the required deadlines.

At a minimum, in any county that has a design value that fails to meet the standard, the entire county must be designated as nonattainment. To identify all areas that contribute to the ambient air quality in that county, we strongly believe that the EPA must include all the counties within any metropolitan statistical area and the combined statistical area that includes any county with the nonattainment designation. Congress itself endorsed this approach in the 1990 CAA Amendments.

The U.S. Census Bureau describes the general concept of a metropolitan statistical area as "that of a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core." Their definition includes urban areas and the communities around them that "meet specified requirements of commuting to or from the central counties"² The White House Office of Management and Budget (OMB) described the metropolitan area in its 2000 update as:

"an area containing a recognized population nucleus and adjacent communities that have a high degree of integration with that nucleus." 3

OMB was quite clear that metropolitan areas define robust economic and transportation connections, as represented by commuting patterns. Commuting patterns in metropolitan areas represent a minimum of 25 percent of the residents in outlying counties who work in the core county or residents of the core county hold 25 percent of the jobs in the outlying counties. OMB even increased these thresholds from the 15 percent as it was in the 1990s to recognize the increased inter-county economic connectivity in the United States.⁴

The jobs that create and sustain these commutes are likely themselves to be sources of emissions, as are the services that meet the needs of the companies and populations. Stationary sources,

² U.S. Census Bureau. "About Metropolitan and Micropolitan Statistical Areas." Downloaded from <u>http://www.census.gov/population/www/estimates/aboutmetro.html</u>.

³ Federal Register, Vol. 65, 249: 82228-82238.

⁴ Federal Register, Vol. 65, 249: 82233.

such as industry, and mobile sources, including trucks and heavy equipment, are sources of emissions that connect directly to this economic nexus. Furthermore, commuting cars, trucks, buses and trains produce $PM_{2.5}$ emissions.

Clearly, the economic and transportation integration that defines a metropolitan area makes it essential that the entire metropolitan area be included in the nonattainment area if the area is to reduce $PM_{2.5}$ levels successfully. Only by including all these sources will the states succeed in meeting the standard.

For these reasons, the attached list of counties and other political subdivisions of each metropolitan area or combined statistical area follows the characterization of these areas contained in the White House Office of Management and Budget Bulletin NO. 08-01, *Update of Statistical Area Definitions and Guidance on their Uses*, November 20, 2007.

Pittsburgh-New Castle, PA Combined SA should be one nonattainment area.

In particular, we strenuously disagree with the previous designation of Allegheny County, Pennsylvania into two separate nonattainment areas, the "Liberty-Clairton" and "Pittsburgh-Beaver Valley." The entire metropolitan area is cohesively defined for transportation and regional planning purposes as well as economic development, and should be so for air pollution control measures as well.

In no other county in the nation is a circle drawn entirely within the county for the purposes of creating a separate nonattainment area. Higher monitor readings in one part of the nonattainment area from that of other monitors simply indicates the presence of a major source of pollution in the vicinity. The fact that a large single source exists in that area should argue for a larger, not a smaller nonattainment area, since the emissions from that large source are likely blown throughout the entire Pittsburgh metropolitan region, into multiple states as well as across the international border. Indeed, previous studies of large sources of particulates throughout the Eastern U.S. demonstrate the widespread impact of the emissions from such large sources.⁵ The nonattainment designation should reflect the entire Pittsburgh-New Castle, PA Combined Statistical Area, including all of Allegheny County, as one area.

Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area must be included as a nonattainment area

The EPA's proposal to exclude the metropolitan Washington, DC area from any area designated nonattainment for the 2006 $PM_{2.5}$ standards is unlawful and arbitrary for several reasons.

⁵ As examples, two publications that discuss some of the evidence for the impact of particulates on wide-geographic areas are these: Abt Associates. *The Particulate-Related Health Benefits of Reducing Power Plant Emissions*. For the Clean Air Task Force. October 2000; and Malm WC. *Introduction to Visibility*. National Park Service Visibility Program, Colorado State University, 1999.

First, according to EPA's AirData database, a monitor in Prince Georges County, Maryland, is violating the 24-hour $PM_{2.5}$ standard based on 2005-2007 data. The tables for AirData showing this are attached in this submittal. The table shows the following 24-hour 98th percentile values at the Prince Georges Equestrian Center monitor 2:

 $\begin{array}{l} 2005-37 \; \mu g/m^3 \\ 2006-36 \; \mu g/m^3 \\ 2007-48 \; \mu g/m^3 \end{array}$

The three-year average of these values is well in excess of $35 \ \mu g/m^3$, thus showing a violation. EPA's response to Maryland's proposed designations (which proposed to designate the Washington metro area, including Prince Georges County, as nonattainment) does not address these data at all. If EPA is going to claim that these data are somehow flawed or not worthy of consideration, the agency must provide public notice of such a claim and provide an opportunity for comment. As the evidence stands now, the monitor shows a violation. The Act, therefore, requires EPA to designate the area as "nonattainment." A nonattainment designation is further warranted based on the consistently high 24-hour levels recorded at this monitor and the fact that the area was indisputably in violation in 2004-2006.

Designation of the Washington area as nonattainment is further supported by data in the District of Columbia. Data in the AirData database shows consistently high 24-hour $PM_{2.5}$ levels at the two monitors at 34^{th} and Dix NE. These data are also attached. Taking the higher of the values at the 2 monitors in each year, the site is in violation for 2005-2007. The site was also in violation based on 2004-2006 data, prompting the District to recommend the area be designated nonattainment.

Given that the Washington area is in fact violating the PM2.5 NAAQS and is consistently recording elevated $PM_{2.5}$ levels, EPA must designate the entire metropolitan area as nonattainment. We incorporate by reference EPA's decision and rationale for designating the Washington metropolitan area nonattainment for the 1997 $PM_{2.5}$ NAAQS. That rationale explains why the entire metro area, including the District and the Maryland and Virginia Counties in the current $PM_{2.5}$ nonattainment area, must be included in the nonattainment area.

Even if the Washington area were not itself violating the 2006 NAAQS, EPA would have to designate the area nonattainment as part of a greater Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area nonattainment area. As explained earlier, Congress intended that nonattainment areas encompass the entirety of combined statistical urban areas. Here, the relevant combined statistical area is the Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area. Since EPA agrees that the Baltimore area is in violation of the NAAQS, then even if the Washington area was not presently in violation of the standards, the entire CSA would have to be designated nonattainment.

This result is further compelled by the Act's mandate that EPA designate as "nonattainment" any area "that contributes to ambient air quality in a nearby area that does not meet" the NAAQS. Here, EPA's own data and analysis show that the Washington area unquestionably contributes in

a substantial way to $PM_{2.5}$ levels in the Baltimore area. The Washington area generates substantial emissions of $PM_{2.5}$ and precursors. EPA's own analysis shows that regional wind patterns are often southwest to northeast. EPA's own data indicate that $PM_{2.5}$ emissions in both Montgomery and Prince Georges Counties are higher than in any county in the proposed Baltimore nonattainment area.

Likewise, these two counties combined emit more sulfur dioxide (SO_2) than any county in the proposed Baltimore area, and collectively, the Maryland counties currently in the Washington nonattainment area emit about as much PM_{2.5} as all the counties in the proposed Baltimore area combined, and far more SO₂. Given the overwhelming evidence, EPA has no rational basis for concluding that the Washington area does not contribute to air quality that does not meet the NAAQS in the Baltimore area.

EPA must designate as nonattainment the counties on the attached list

The American Lung Association, the Environmental Defense Fund, Earthjustice and the Natural Resources Defense Council strongly recommend the counties in the attached list be designated nonattainment for $PM_{2.5}$, based on 2005-2007 design values (where adequate data is available) in either the county or the metropolitan areas that includes these counties.

Where adequate data are not available for 2005-07, EPA must base nonattainment designations on the most recent 3-year period for which valid data are available. For example, an area with incomplete data for 2005-2007 must be designated nonattainment if its 2004-06 data show a violation. Unfortunately, EPA is apparently taking the position that such an area should be designated "unclassifiable." That is truly indefensible where there are adequate data to show a violation in 2003-2005 or 2004-2006 – periods immediately preceding EPA's promulgation of the new NAAQS.

We look to the U.S. Environmental Protection Agency publishing these appropriate designations so that the important work to clean up the air we breathe can move forward.

Sincerely,

Paul G. Billings Vice President, National Policy and Advocacy American Lung Association

David Baron Managing Attorney Earthjustice Vickie Patton Deputy General Counsel Environmental Defense Fund

John Walke Senior Attorney and Director, Clean Air Program Natural Resources Defense Council

CC: Robert J. Meyers Principal Deputy Assistant Administrator for Air and Radiation Robert D. Brenner, Director, Office of Policy Analysis and Review
Stephen D. Page, Office of Air Quality Planning & Standards
Air Division Directors, Regions I-X
Margo Oge, Director, Office of Transportation and Air Quality
Brian McLean, Director, Office of Atmospheric Programs
Bill Harnett, Director, Air Quality Policy Division
Kimber Scavo, AQPD
Amy Vasu, AQPD

Attachments included here: Recommended Nonattainment Areas for the PM_{2.5} National Ambient Air Quality Standards

Attached as separate PDFs: EPA Airdata for the District of Columbia 2004, 2005, 2006, 2007 EPA Airdata for Prince George's County, MD 2004, 2005, 2006, 2007

Recommended Nonattainment Areas for the PM_{2.5} National Ambient Air **Quality Standards**

Based on 2005-2007 Design Values, listed by State and by Area ⁶

Alabama

Atlanta-Sandy Springs-Gainesville, GA-AL Combined Statistical Area Chambers County
Birmingham-Hoover-Cullman, AL Combined Statistical Area
Bibb County
Blount County
Chilton County
Cullman County
Jefferson County
St. Clair County
Shelby County
Walker County
Columbus-Auburn-Opelika, GA-AL Combined Statistical Area
Lee County
Macon County
Russell County

Gadsden, AL MSA Etowah County

Alaska

Fairbanks, AK MSA Fairbanks North Star Borough Juneau, AK MSA Juneau City and Borough

Arizona

Nogales MSA Santa Cruz County

⁶ Some areas include counties in more than one state. The list of counties and other political subdivisions of each metropolitan area or combined statistical area follows the characterization of these areas contained in the White House Office of Management and Budget Bulletin NO. 08-01, Update of Statistical Area Definitions and Guidance on their Uses, November 20, 2007.

California

Chico, CA MSA Butte County

El Centro, CA MSA Imperial County

Los Angeles-Long Beach-Riverside, CA Combined Statistical Area Los Angeles County Orange County Riverside County San Bernardino County Ventura County

Sacramento-Arden-Arcade-Yuba City, CA-NV Combined Statistical Area El Dorado County Placer County Sacramento County

Yolo County Nevada County Sutter County Yuba County

San Jose-San Francisco-Oakland, CA Combined Statistical Area

Alameda County Contra Costa County Marin County Napa County San Benito County San Francisco County San Mateo County Santa Clara County Sonta Cruz County Solano County Sonoma County

Bakersfield, CA MSA Kern County

Fresno, CA MSA Fresno County

Madera, CA MSA Madera County

> Modesto, CA MSA Stanislaus County

Stockton, CA MSA San Joaquin County

Visalia-Porterville, CA MSA Tulare County

Hanford-Corcoran, CA MSA Kings County

Merced, CA MSA Merced County

Connecticut

New York - Newark-Bridgeport, NY-NJ-PA-CT Combined Statistical Area Fairfield County New Haven County Litchfield County

Delaware

Philadelphia-Camden-Vineland, PA-NJ-DE-MD Combined SA New Castle County

District of Columbia

Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area District of Columbia

Georgia

Atlanta-Sandy Springs-Gainesville, GA-AL Combined Statistical Area Barrow County Bartow County Butts County Carroll County Cherokee County Clayton County Cobb County Cobb County Dawson County DeKalb County Douglas County

> Fayette County Forsyth County Fulton County **Gwinnett County** Hall County Haralson County Heard County Henry County Jasper County Lamar County Meriwether County Newton County Paulding County **Pickens County** Pike County Polk County Rockdale County Spalding County **Troup County** Upson County Walton County

Augusta-Richmond County, GA-SC MSA Burke County Columbia County McDuffie County Richmond County

Chattanooga TN-GA MSA Catoosa County Dade County Walker County

Columbus, GA-AL MSA Chattahoochee County Harris County Marion County Muscogee County

Irwinton, GA Wilkinson County

Macon-Warner Robbins-Fort Valley, GA, Combined Statistical Area Bibb County Crawford County

> Houston County Jones County Monroe County Peach County Twiggs County

Rome, GA MSA Floyd County

Sandersville, GA Washington County

Idaho

Logan, UT-ID MSA Franklin County Pinehurst Shoshone County

Illinois

Chicago-Naperville-Michigan City, IL-IN-WI Combined Statistical Area Cook County DeKalb County DuPage County Grundy County Kane County Kankakee County Kendall County McHenry County Will County Lake County

Davenport-Moline-Rock Island, IA-IL MSA Henry County Mercer County Rock Island County

Paducah, KY-IL MSA Massac County

St. Louis-St. Charles-Farmington, MO-IL Combined Statistical Area Bond County Calhoun County Clinton County Jersey County

> Macoupin County Madison County Monroe County Randolph County St. Clair County

Indiana

Chicago-Naperville-Michigan City, IL-IN-WI Combined Statistical Area Jasper County Lake County LaPorte County Newton County Porter County

Cincinnati-Middletown-Wilmington, OH-KY-IN Combined Statistical Area

Clinton County Dearborn County Franklin County Ohio County

Evansville, IN MSA

DuBois County Gibson County Pike County Posey County Spencer County Vanderburgh County Warrick County

Indianapolis-Anderson-Columbus, IN Combined Statistical Area

Bartholomew County Boone County Brown County Hamilton County Hancock County Hendricks County Henry County Jennings County Johnson County Madison County Marion County Montgomery County Morgan County Putnam County Shelby County

> Lafayette-Frankfort, IN MSA Benton County Carroll County Clinton County Tippecanoe County

Louisville/Jefferson County-Elizabethtown-Scottsburg, KY-IN Combined Statistical Area Clark County Floyd County Harrison County Scott County Washington County

Vincennes, IN MSA Knox County

Iowa

Davenport-Moline-Rock Island, IA-IL MSA Scott County

Muscatine, IA MSA Louisa County Muscatine County

Kentucky

Cincinnati-Middletown-Wilmington, OH-KY-IN Combined Statistical Area Boone County Bracken County Campbell County Gallatin County Grant County Kenton County Pendleton County Clarksville, TN-KY MSA Christian County

Muhlenberg County Trigg County

Evansville, IN MSA Henderson County Webster County

> Huntington-Ashland, WV-KY-OH MSA Boyd County Greenup County Lawrence County

Louisville/Jefferson County-Elizabethtown-Scottsburg, KY-IN Combined Statistical Area

Bullitt County Hardin County Henry County Jefferson County Larue County Meade County Nelson County Oldham County Shelby County Spencer County Trimble County

Paducah-Mayfield, KY-IL Combined Statistical Area Ballard County Graves County Livingston County McCracken County

Maryland

Hagerstown Martinsburg, MD-WV Metropolitan Statistical Area Washington County

Philadelphia-Camden-Vineland, PA-NJ-DE-MD Combined Statistical Area Cecil County

Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area Anne Arundel County Baltimore County Baltimore City Calvert County Carroll County Charles County Frederick County Harford County Howard County Montgomery County Prince George's County Queen Anne's County St. Mary's County

Michigan

Detroit-Warren-Flint, MI Combined Statistical Area Genesee County Lapeer County Livingston County Macomb County Monroe County Oakland County St. Clair County Washtenaw County Wayne County

Grand Rapids-Muskegon-Holland, MI Combined Statistical Area Allegan County Barry County Ionia County Kent County Muskegon County Newaygo County Ottawa County

Missouri

St. Louis-St. Charles-Farmington, MO-IL Combined Statistical Area Crawford County Franklin County Jefferson County Lincoln County St. Charles County St. Francois County St. Louis City St. Louis City St. Louis County Washington County Warren County

Montana

Libby, MT MSA Lincoln County

New Jersey

Allentown-Bethlehem-Easton, PA-NJ MSA Warren County

> New York-Newark, Bridgeport, NY-NJ-CT-PA Combined SA Bergen County Essex County Hudson County Hunterdon County Mercer County Morris County Middlesex County Monmouth County Ocean County Passaic County Somerset County Sussex County Union County

Philadelphia-Camden-Vineland, PA-NJ-DE-MD Combined SA Burlington County Camden County Cumberland County Gloucester County Salem County

New York

New York-Newark-Bridgeport, NY-NJ-PA-CT Combined Statistical Area Bronx County Dutchess County Kings County Nassau County New York County Orange County Putnam County Queens County Richmond County Rockland County Suffolk County Ulster County Westchester County

Nevada

Sacramento-Arden-Arcade-Yuba City, CA-NV Combined Statistical Area Douglas County

North Carolina

Greensboro- Winston-Salem-High Point, NC Combined Statistical Area Alamance County Davie County Davidson County Forsyth County Guilford County Randolph County Rockingham County Stokes County Surry County Yadkin County

Hickory-Morganton-Lenoir, NC Combined Statistical Area Alexander County Burke County Caldwell County Catawba County

Ohio

Canton-Massillon, OH MSA Carroll County Stark County

Cincinnati-Middleton-Wilmington, OH-KY-IN Combined Statistical Area Brown County Butler County Clermont County Clinton County Hamilton County Warren County

Cleveland-Akron-Elyria, OH Combined Statistical Area Ashtabula County Cuyahoga County Geauga County Lake County Lorain County Medina County Portage County Summit County

Columbus-Marion-Chillicothe, OH Combined Statistical Area Delaware County

> Fairfield County Fayette County Franklin County Grant County Knox County Licking County Madison County Morrow County Pickaway County Ross County Union County

Dayton-Springfield-Greenville, OH Combined Statistical Area Champaign County Clark County Darke County Greene County Miami County Montgomery County Preble County

Huntington-Ashland, WV-KY-OH MSA Adams County Gallia County Lawrence County Scioto County

Parkersburg-Marietta-Vienna, WV-OH MSA Washington County

Steubenville-Weirton, WV-OH MSA Jefferson County

Wheeling, WV-OH MSA Belmont County

Youngstown-Warren-East Liverpool, OH-PA Combined Statistical Area Columbiana County Mahoning County Trumbull County

Oregon

Eugene-Springfield, OR MSA Lane County

> Klamath Falls, OR MSA Klamath County

Pennsylvania

Allentown-Bethlehem-Easton, PA-NJ MSA Carbon County Lehigh County Northampton County

Harrisburg-Carlisle, PA MSA Cumberland County Dauphin County Perry County

Lebanon, PA MSA Lebanon County

Johnstown, PA MSA Cambria County

Indiana, PA MSA Indiana County

Lancaster, PA MSA Lancaster County

New York-Newark, Bridgeport, NY-NJ-CT-PA Combined SA Pike County

Philadelphia-Camden-Vineland, PA-NJ-DE-MD Combined SA Berks County Bucks County Chester County Delaware County Montgomery County Philadelphia County

Pittsburgh-New Castle, PA Combined SA

Allegheny County Armstrong County Beaver County Butler County Fayette County Lawrence County Washington County

Westmoreland County

State College, PA MSA Centre County

Waynesburg Greene County

York-Hanover-Gettysburg, PA Combined SA Adams County York County

Youngstown-Warren-East Liverpool, OH-PA MSA Mercer County

South Carolina

Augusta-Richmond County, GA-SC MSA Aiken County Edgefield County

Columbia –Newberry, SC Combined MSA Calhoun County Fairfield County Kershaw County Lexington County Newberry County Richland County Saluda County

Greenville-Spartanburg-Anderson, SC MSA Anderson County Cherokee County Greenville County Laurens County Oconee County Pickens County Spartanburg County Union County

Tennessee

Chattanooga-Cleveland-Athens, TN Combined Statistical Area Bradley County Hamilton County

> Marion County McMinn County Polk County Sequatchie County

Clarksville, TN-KY MSA

Humphreys County Montgomery County Stewart County

Knoxville-Sevierville-La Follette, TN Combined Statistical Area

Anderson County Blount County Campbell County Cocke County Grainger County Hamblen County Jefferson County Knox County Loudon County Roane County Sevier County Union County

Texas

Houston-Baytown-Huntsville, TX Combined Statistical Area Austin County Brazoria County Chambers County Fort Bend County Galveston County Harris County Liberty County Matagorda County Montgomery County San Jacinto County Walker County Waller County

Utah

Salt Lake City-Ogden-Clearfield, UT Combined Statistical Area Box Elder County Davis County Morgan County Salt Lake County

> Summit County Tooele County Wasatch County Weber County

Logan, UT MSA Cache County

Provo-Orem, UT MSA Juab County Utah County

Virginia

Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined Statistical Area Alexandria City Arlington County Clarke County **Culpeper County** Fairfax County Fairfax City Falls Church City Fauquier County Frederick County Fredericksburg City Loudoun County Manassas City Manassas Park City Prince William County Spotsylvania County Stafford County Warren County Winchester City

Washington

Seattle-Tacoma-Olympia, WA Combined Statistical Area Island County King County Kitsap County Mason County Pierce County Skagit County Snohomish County Thurston County

West Virginia

Charleston, WV MSA Boone County Clay County Kanawha County Lincoln County Putnam County

Hagerstown-Martinsburg, MD-WVMSA Berkeley County Morgan County

Huntington-Ashland, WV-KY-OH MSA Cabell County Wayne County

Parkersburg-Marietta-Vienna, WV-OH MSA Pleasants County Wirt County Wood County

Weirton-Steubenville, WV-OH MSA Brooke County Hancock County

Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Combined SA Jefferson County Hampshire County

Wheeling, WV-OH MSA Marshall County Ohio County

Wisconsin

Chicago-Naperville-Michigan City, IL-IN-WI Combined Statistical Area Kenosha County

Green Bay, WI MSA Brown County Kewaunee County Oconto County

Madison-Baraboo, WI Combined Statistical Area Columbia County

> Dane County Iowa County Sauk County

Milwaukee-Racine-Waukesha, WI Combined Statistical Area Milwaukee County Ozaukee County Racine County Washington County Waukesha County



AirData - Monitor Values Report - Criteria Air Pollutants Generated on Monday, September 29, 2008

You are here: <u>EPA Home</u> <u>Air & Radiation</u> <u>AirData</u> <u>Reports and Maps</u> <u>Select Geography</u> <u>Select Report/Map</u> <u>Monitor Values</u> <u>Report Criteria</u> Monitor Values Report

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Prince George's Co, MD **Pollutant:** Particles < 2.5 micrometers diameter **Year:** 2007

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

4 Rows

See Disclaimer

					PN	A2.5 (<u>µg/m3)</u>									
			<u>24-</u>	Hour	Value	<u>es</u>		An	nual	Monitor						
<u>Row</u> <u>#</u>	<u>#</u> <u>Obs</u>	<u>1st</u> <u>Max</u>	<u>2nd</u> <u>Max</u>	<u>3rd</u> <u>Max</u>	<u>4th</u> <u>Max</u>	<u>98th</u> <u>Pct</u>	<u>#</u> Exceed	<u>Mean</u>	<u>#</u> Exceed	Number	<u>Site ID</u>	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> Region
<u>SORT</u>																
1	117	33.0	30.9	28.8	26.9	28.8	0	12.11	0	1	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
2	29	48.0	25.3	20.2	18.0	48.0	1	13.37	0	2	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
												Howard		Prince		

http://iaspub.epa.gov/airsdata/ADAQS.monvals?geotype=co&geocode=24033&geoinfo=co%7E24033%7EPrince+Georges+Co... 9/29/2008

3	112	42.4	40.2	29.0	28.5	29.0	0	11.83	0	1	240330030	University'S Beltsville Laborator	Beltsville	George's Co	MD	03
4	118	41.7	32.5	31.5	31.2	31.5	0	14.14	0	1	240330025	Bladensburg Volunteer Fire Department, 4	Bladensburg	Prince George's Co	MD	03
Grand Total							1		0							

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Generated on Thursday, October 2, 2008

AirData - Monitor Values Report - Criteria Air Pollutants

Monitor Values Report - Criteria Air Pollutants

Geographic Area: Prince George's Co, MD Pollutant: Particles < 2.5 micrometers diameter Year: 2006

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

3 Rows

See Disclaimer

					P	/12.5 (<u>ug/m3)</u>									
			<u>24-</u>	Hour	Value	<u>es</u>		An	<u>nual</u>	Monitor						
<u>Row</u> ≝	<u>#</u> <u>Obs</u>	<u>1st</u> Max	<u>2nd</u> <u>Max</u>	<u>3rd</u> <u>Max</u>	<u>4th</u> Max	<u>98th</u> <u>Pct</u>	<u>#</u> Exceed	<u>Mean</u>	<u>#</u> Exceed	Number	<u>Site ID</u>	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> <u>Region</u>
SORT																
1	98	35.6	33.8	32.2	31.0	33.8	0	11.49	0	1	240330030	Howard University'S Beltsville Laborator	Beltsville	Prince George's Co	MD	03
2	57	35.7	32.7	30.5	24.8	35.7	1	12.47	0	2	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
3	109	36.3	35.2	32.5	31.8	32.5	0	12.23	0	1	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
Grand Total							1		0							

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AirData - Monitor Values Report - Criteria Air Pollutants Generated on Monday, September 29, 2008

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Monitor Values Report - Criteria Air Pollutants

Geographic Area: Prince George's Co, MD **Pollutant:** Particles < 2.5 micrometers diameter **Year:** 2005

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

 μ g/m3 = micrograms per cubic meter

3 Rows

See Disclaimer

					PN	/12.5 (<u>µg/m3)</u>									
			<u>24-</u>	Hour	Value	<u>es</u>		An	nual	Monitor						
<u>Row</u> <u>#</u>	<u>#</u> <u>Obs</u>	<u>1st</u> <u>Max</u>	<u>2nd</u> <u>Max</u>	<u>3rd</u> <u>Max</u>	<u>4th</u> Max	<u>98th</u> <u>Pct</u>	<u>#</u> Exceed	<u>Mean</u>	<u>#</u> Exceed	<u>Number</u>	<u>Site ID</u>	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> <u>Region</u>
<u>SORT</u>																
1	109	37.1	36.6	30.9	30.6	30.9	0	13.76	0	1	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
2	60	36.6	31.5	26.2	25.9	36.6	1	13.29	0	2	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
3	107	37.8	36.1	32.4	30.8	32.4	0	13.40	0	1	240330030	Howard University'S Beltsville	Beltsville	Prince George's Co	MD	03

						Laborator		
Grand Total			1	0				

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AirData - Monitor Values Report - Criteria Air Pollutants Generated on Monday, September 29, 2008

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Monitor Values Report - Criteria Air Pollutants

Geographic Area: Prince George's Co, MD **Pollutant:** Particles < 2.5 micrometers diameter **Year:** 2004

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

 μ g/m3 = micrograms per cubic meter

4 Rows

See Disclaimer

					PN	/12.5 (<u>µg/m3)</u>									
			<u>24-</u>	Hour	Value	<u>es</u>		An	nual	Monitor						
<u>Row</u> <u>#</u>	<u>#</u> <u>Obs</u>	<u>1st</u> <u>Max</u>	<u>2nd</u> <u>Max</u>	<u>3rd</u> <u>Max</u>	<u>4th</u> <u>Max</u>	<u>98th</u> <u>Pct</u>	<u>#</u> Exceed	<u>Mean</u>	<u>#</u> Exceed	Number	<u>Site ID</u>	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> Region
<u>SORT</u>																
1	114	44.3	41.9	37.7	30.5	37.7	1	13.33	0	1	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
2	61	42.0	28.0	27.9	27.6	42.0	1	12.35	0	2	240338003	Pg County Equestrian Center, 14900 Penns	Greater Upper Marlboro	Prince George's Co	MD	03
												Howard		Prince		

3	49	38.1	29.5	29.5	27.5	38.1	1	12.64	0	1	240330030	University'S Beltsville Laborator	Beltsville	George's Co	MD	03
4	27	16.9	15.4	14.2	14.2	16.9	0	9.75	0	1	240330002	Goddard Space Flight Center	Greenbelt	Prince George's Co	MD	03
Grand Total							3		0							

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AirData - Monitor Values Report - Criteria Air Pollutants Generated on Thursday, October 2, 2008

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Monitor Values Report - Criteria Air Pollutants

Geographic Area: District Of Columbia Pollutant: Particles < 2.5 micrometers diameter Year: 2007

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

4 Rows

See Disclaimer

		<u>РМ2.5 (µg</u> , 24 Hour Values															
				<u>24-</u>	Hour	Value	es		An	nual	Manitan						
<u>Rov</u> #	<u>∦</u> <u>∆</u>	<u>t 1</u> os <u>M</u>	<u>st</u> lax	<u>2nd</u> Max	<u>3rd</u> Max	<u>4th</u> Max	<u>98th</u> Pct	# Exceed	<u>Mean</u>	# Exceed	Number	Site ID	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> Regior
SOF	<u>T</u>											N					
	1 3	38 45	5.6	45.5	40.8	37.3	33.1	0	13.00	0	1	110010043	2500 1st Street, N.W. Washington Dc	Washington	Washington city	DC	03
	2 1	17 4 ⁻	1.2	30.6	28.7	28.5	28.7	0	13.68	0	1	110010042	Park Services Office 1100 Ohio Drive	Washington	Washington city	DC	03
	3 3	34 45	5.6	45.4	42.7	38.6	32.8	о	13.60	0	1	110010041	34th. And Dix	Washington	Washington	DC	03

http://iaspub.epa.gov/airsdata/ADAQS.monvals?geotype=st&geocode=DC&geoinfo=st%7EDC%7EDistrict+of+Columbia&pol... 10/2/2008 and 10/2/2008 and

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												Streets, N.E.		city		
4	57	42.1	29.2	27.4	26.9	29.2	0	14.45	0	2	110010041	34th. And Dix Streets, N.E.	Washington	Washington city	DC	03
Grand Total							0		0							

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AirData - Monitor Values Report - Criteria Air Pollutants Generated on Thursday, October 2, 2008

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Monitor Values Report - Criteria Air Pollutants

Geographic Area: District Of Columbia Pollutant: Particles < 2.5 micrometers diameter Year: 2006

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

4 Rows

See Disclaimer

					<u>PI</u>	/12.5 (µg/m3)									
			<u>24</u> -	Hour	Value	es		An	nual	Manitan						
<u>Rov</u> <u>#</u>	v <u>#</u> Obs	<u>1st</u> Max	<u>2nd</u> Max	<u>3rd</u> <u>Max</u>	<u>4th</u> Max	<u>98th</u> <u>Pct</u>	# Exceed	<u>Mean</u>	# Exceed	Number	Site ID	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> Regior
SOR	I 🗖 🛯															
	1 118	3 35.2	33.6	33.0	32.6	33.0	0	13.31	0	1	110010042	Park Services Office 1100 Ohio Drive	Washington	Washington city	DC	03
	2 352	2 74.1	45.0	39.6	37.6	35.0	0	13.43	0	1	110010041	34th. And Dix Streets, N.E.	Washington	Washington city	DC	03
	3 59	75.8	38.6	36.1	30.5	38.6	1	14.27	0	2	110010041	34th. And Dix Streets,	Washington	Washington city	DC	03

http://iaspub.epa.gov/airsdata/ADAQS.monvals?geotype=st&geocode=DC&geoinfo=st%7EDC%7EDistrict+of+Columbia&pol... 10/2/2008 and 10/2/2008 and

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												N.E.				
4	352	41.1	40.8	38.3	35.3	33.2	0	12.98	0	1	110010043	2500 1st Street, N.W. Washington Dc	Washington	Washington city	DC	03
Grand Total							1		0							

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Monitor Values Report - Criteria Air Pollutants

Geographic Area: District Of Columbia Pollutant: Particles < 2.5 micrometers diameter Year: 2005

EPA Air Quality Standards:

Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)

µg/m3 = micrograms per cubic meter

4 Rows

See Disclaimer

					<u>P</u>	M2.5 ((µg/m3)									
		24-Hour Values Annual														
<u>Row</u>	<u>#</u> <u>Obs</u>	<u>1st</u> <u>Max</u>	2nd Max	<u>3rd</u> <u>Max</u>	<u>4th</u> <u>Max</u>	<u>98th</u> <u>Pct</u>	# Exceed	<u>Mean</u>	<u>#</u> Exceed	Number	Site ID	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	EPA Regio
SORT																
	1 351	44.3	42.5	40.2	36.2	34.4	0	14.64	0	1	110010043	2500 1st Street, N.W. Washington Dc	Washington	Washington city	DC	03
2	2 117	38.4	37.2	36.4	33.2	36.4	1	15.65	1	1	110010042	Park Services Office 1100 Ohio Drive	Washington	Washington city	DC	03
:	3 326	43.4	42.7	39.0	37.5	36.2	1	14.88	0	1	110010041	34th. And Dix	Washington	Washington	DC	03

http://iaspub.epa.gov/airsdata/ADAQS.monvals?geotype=st&geocode=DC&geoinfo=st%7EDC%7EDistrict+of+Columbia&pol... 10/2/2008 and 10/2/2008 and

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												Streets, N.E.		city		
4	68	38.7	31.2	30.3	28.7	31.2	0	15.67	1	2	110010041	34th. And Dix Streets, N.E.	Washington	Washington city	DC	03
Grand Total							2		2							

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µg/m3 = micrograms per cubic meter

4 Rows

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						PI	/12.5 (µg/m3)									
		24-Hour Values Annual									Manitan						
<u>Ro</u> #	w	<u>#</u> 0bs	<u>1st</u> <u>Max</u>	<u>2nd</u> Max	<u>3rd</u> <u>Max</u>	<u>4th</u> Max	<u>98th</u> <u>Pct</u>	# Exceed	<u>Mean</u>	# Exceed	Number	Site ID	<u>Site</u> Address	<u>City</u>	<u>County</u>	<u>State</u>	<u>EPA</u> Regior
SO	RT																
	1	355	42.4	42.3	38.6	37.4	34.8	0	14.43	0	1	110010043	2500 1st Street, N.W. Washington Dc	Washington	Washington city	DC	03
	2	118	43.0	42.1	36.0	35.8	36.0	1	14.53	0	1	110010042	Park Services Office 1100 Ohio Drive	Washington	Washington city	DC	03
	3	337	44.3	41.6	41.4	39.1	38.4	1	14.93	0	1	110010041	34th. And Dix	Washington	Washington	DC	03

http://iaspub.epa.gov/airsdata/ADAQS.monvals?geotype=st&geocode=DC&geoinfo=st%7EDC%7EDistrict+of+Columbia&pol... 10/2/2008 and 10/2/2008 and

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												Streets, N.E.		city		
4	61	41.9	41.8	34.6	34.2	41.8	1	14.48	0	2	110010041	34th. And Dix Streets, N.E.	Washington	Washington city	DC	03
Grand Total							3		0							_

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