

NEW YORK STATE IMPLEMENTATION PLANS

The Business Council of New York State

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Robert D. Bielawa, P.E



State Implementation Plans (SIPs)

- Required by the Clean Air Act. CAA §174(a) outlines planning procedures for ozone, carbon monoxide or particulate matter SIP development
- Contain federally enforceable strategies and measures which states will use to meet the National Ambient Air Quality Standards (NAAQS)



National Ambient Air Quality Standards (NAAQS)

- EPA revised the NAAQS for ozone on March 12, 2008
 - New primary standard is 0.075 parts per million (ppm) to protect public health
 - Old primary standard (1997) was 0.08 ppm
 - New secondary standard is 0.075 ppm to protect public welfare



National Ambient Air Quality Standards (NAAQS)

- EPA revised the NAAQS for particulate matter on September 21, 2006
 - Strengthened the 24-hour fine particulate standard from 65 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $35 \mu\text{g}/\text{m}^3$
 - Retained the existing 24-hour PM_{10} standard of $150\mu\text{g}/\text{m}^3$
 - Revoked the annual PM_{10} standard



National Ambient Air Quality Standards (NAAQS)

- Ozone
 - 0.075 parts per million (ppm)
 - The 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations (Design Value (DV)) measured at each monitor must not exceed 0.075 ppm.



National Ambient Air Quality Standards (NAAQS)

- Fine Particulate Matter (PM_{2.5})
 - 15.0 micrograms/cubic meter (ug/m³)
 - The 3-year average of the weighted annual mean PM_{2.5} concentrations (Design Value) must not exceed 15.0 ug/m³.
 - 35.0 ug/m³
 - The 3-year average of the 98th percentile of 24-hour concentrations (Design Value) at each monitor within an area must not exceed 35.0 ug/m³.



NYS Nonattainment Areas as designated by EPA

8-Hour Ozone

New York Metro
Buffalo-Niagara Falls
Rochester
Capital District

Mid-Hudson
Chautauqua Co.
Jefferson Co.
Essex Co. (Whiteface Mt.)

PM_{2.5}

New York Metro



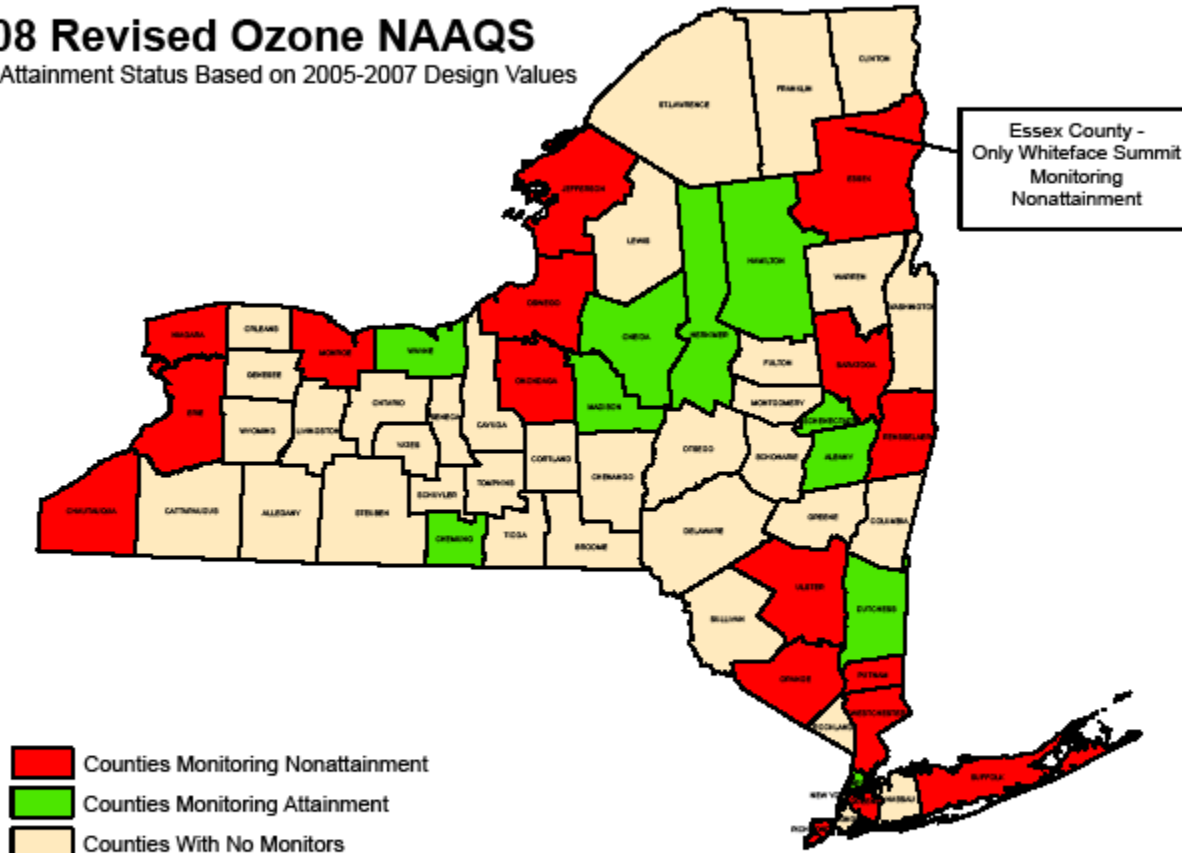
Clean Data Areas (1997 Ozone Standard)

- Albany-Schenectady-Troy, NY
- Jefferson County, NY
- Rochester, NY



2008 Revised Ozone NAAQS

County Attainment Status Based on 2005-2007 Design Values



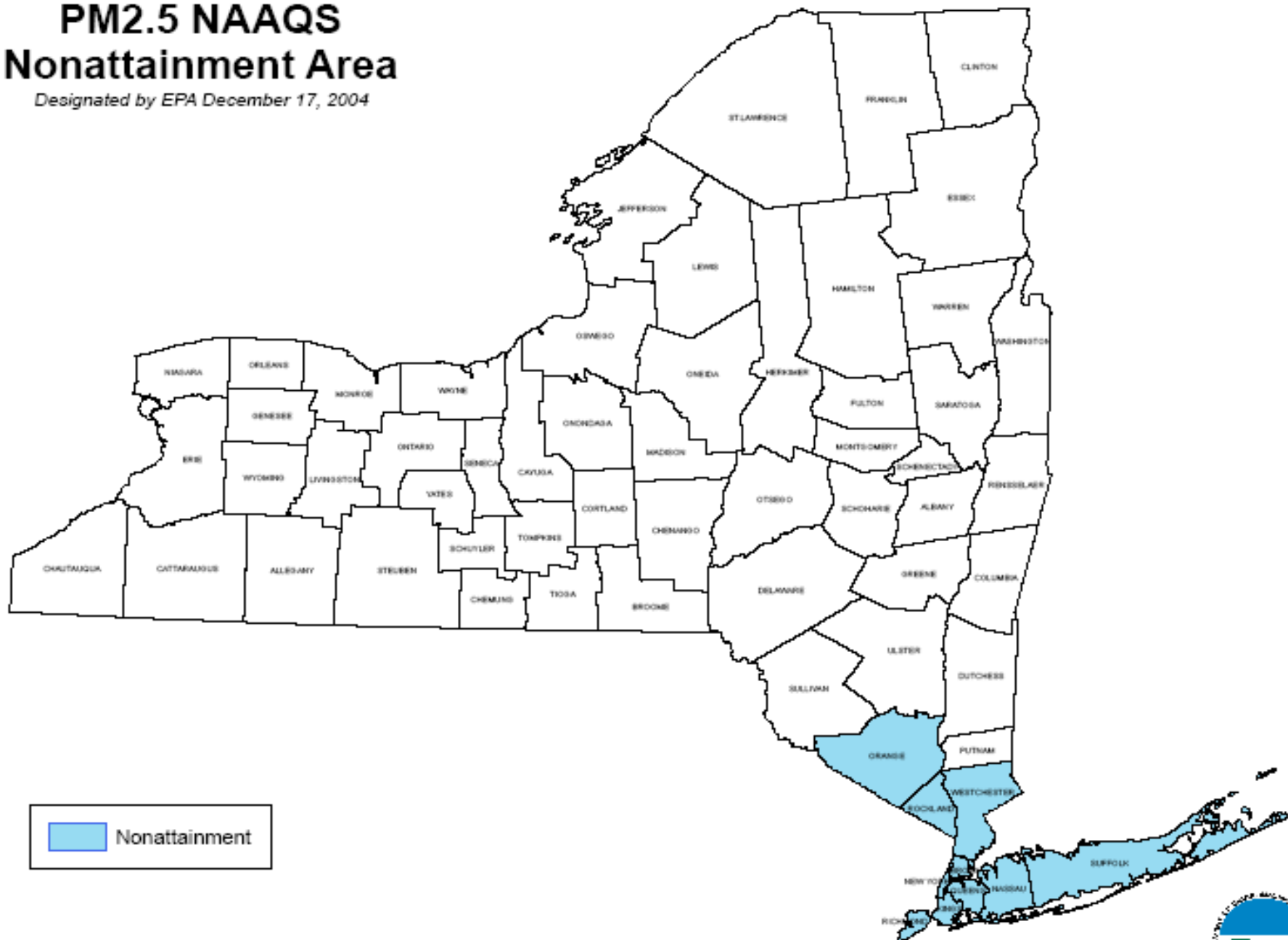
Ozone Design Values (2005-2007)

- NY Metro: 0.090 ppm
- Mid-Hudson: 0.085 ppm
- Capital Region: 0.079 ppm
- Essex Co. (Whiteface): 0.078 ppm
- Jefferson Co.: 0.079 ppm
- Syracuse: 0.077 ppm
- Rochester: 0.080 ppm
- Buffalo-Niagara Falls: 0.086 ppm
- Chautauqua Co.: 0.086 ppm

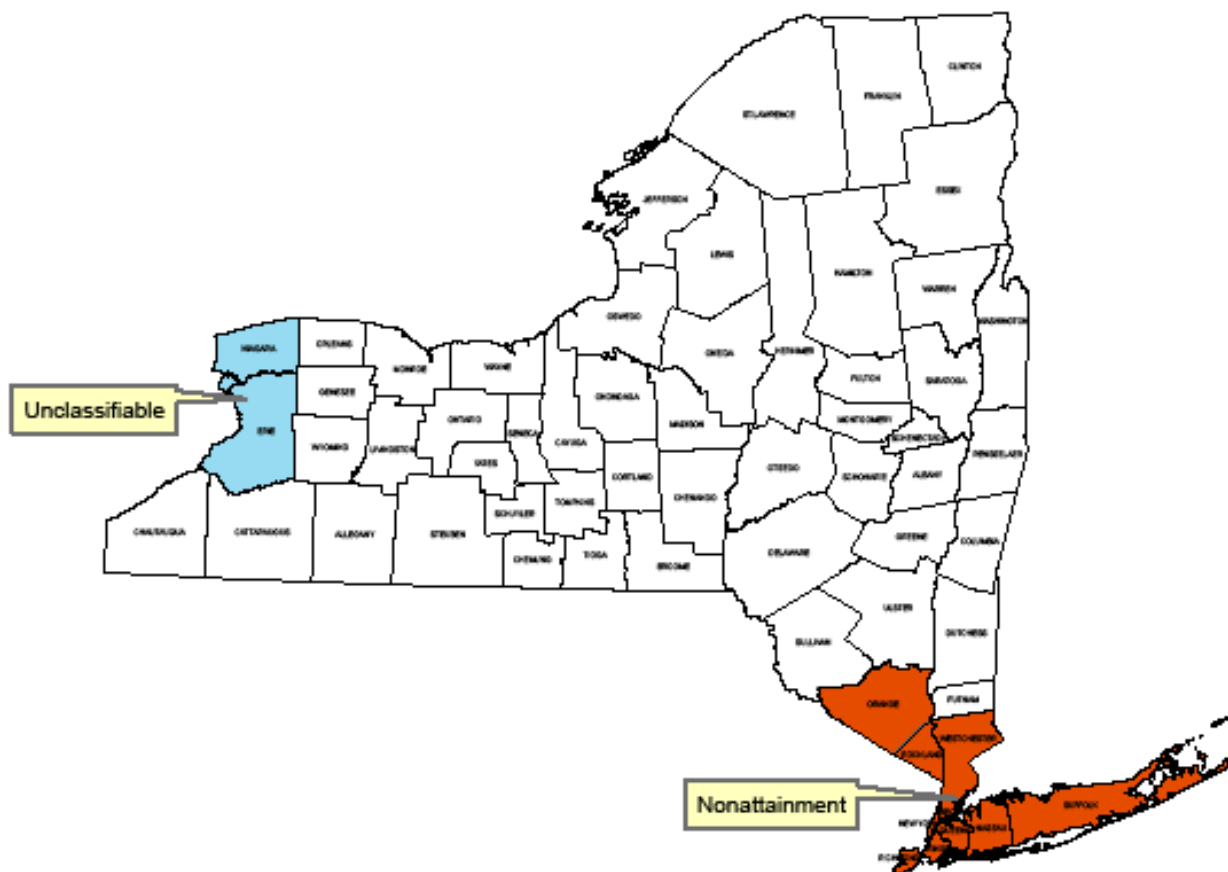


PM2.5 NAAQS Nonattainment Area

Designated by EPA December 17, 2004



Proposed 24-Hour PM_{2.5} Nonattainment and Unclassifiable Areas



NY Metro PM_{2.5} Design Values (2005 – 2007)

- Annual: 15.8 ug/m³
- 24-hour: 39 ug/m³



Ozone SIP Timeline

Action	Date
State designation recommendations due to EPA	March 12, 2009
EPA finalizes designations	March 12, 2010
State implementation plans due	2013
Attainment dates	variable



24-hour PM_{2.5} SIP Timeline

Action	Date
State designation recommendations to EPA	December, 2007
EPA finalizes designations	December, 2008
State implementation plans due	December 2011
Attainment date	TBD

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Source Categories Under Consideration for New or Revised Air Regulations in New York

- Boilers
(Industrial/Commercial/Institutional)
- Cement and lime kilns
- Asphalt plants
- Glass production
- Municipal waste combustors
- Peaking turbines



Source Categories Under Consideration for New or Revised Air Regulations in New York

- Metal smelters (lead, aluminum, etc.)
- Auto refinishing
- Graphic arts
- Surface coatings
- POTW's (Sewage Treatment Plants)
- Degreasers
- Adhesives (Commercial and Industrial)



Source Categories Under Consideration for New or Revised Air Regulations in New York

- Portable Fuel Containers
- Architectural Coatings
- Consumer Products
- Heating Oil



Clean Air Interstate Rule (CAIR)

- Part 243: CAIR NO_x Ozone Season Trading Program
- Part 244: CAIR NO_x Annual Trading Program
- Part 245: CAIR SO₂ Trading Program



Clean Air Interstate Rule (CAIR)

- On July 11, 2008, the D.C. Circuit vacated EPA's Clean Air Interstate Rule.
- On September 24, 2008, The United States filed a petition for rehearing in the Clean Air Interstate Rule case.



Contact Information

Robert D. Bielawa, P.E.
Environmental Engineer II

NYSDEC

625 Broadway, 2nd Floor
Albany, NY 12233-3251
(518) 402-8396



Contact Information

Dave Shaw

Director

Division of Air Resources

NYSDEC

625 Broadway, 2nd Floor

Albany, NY 12233-3250

(518) 402-8452

