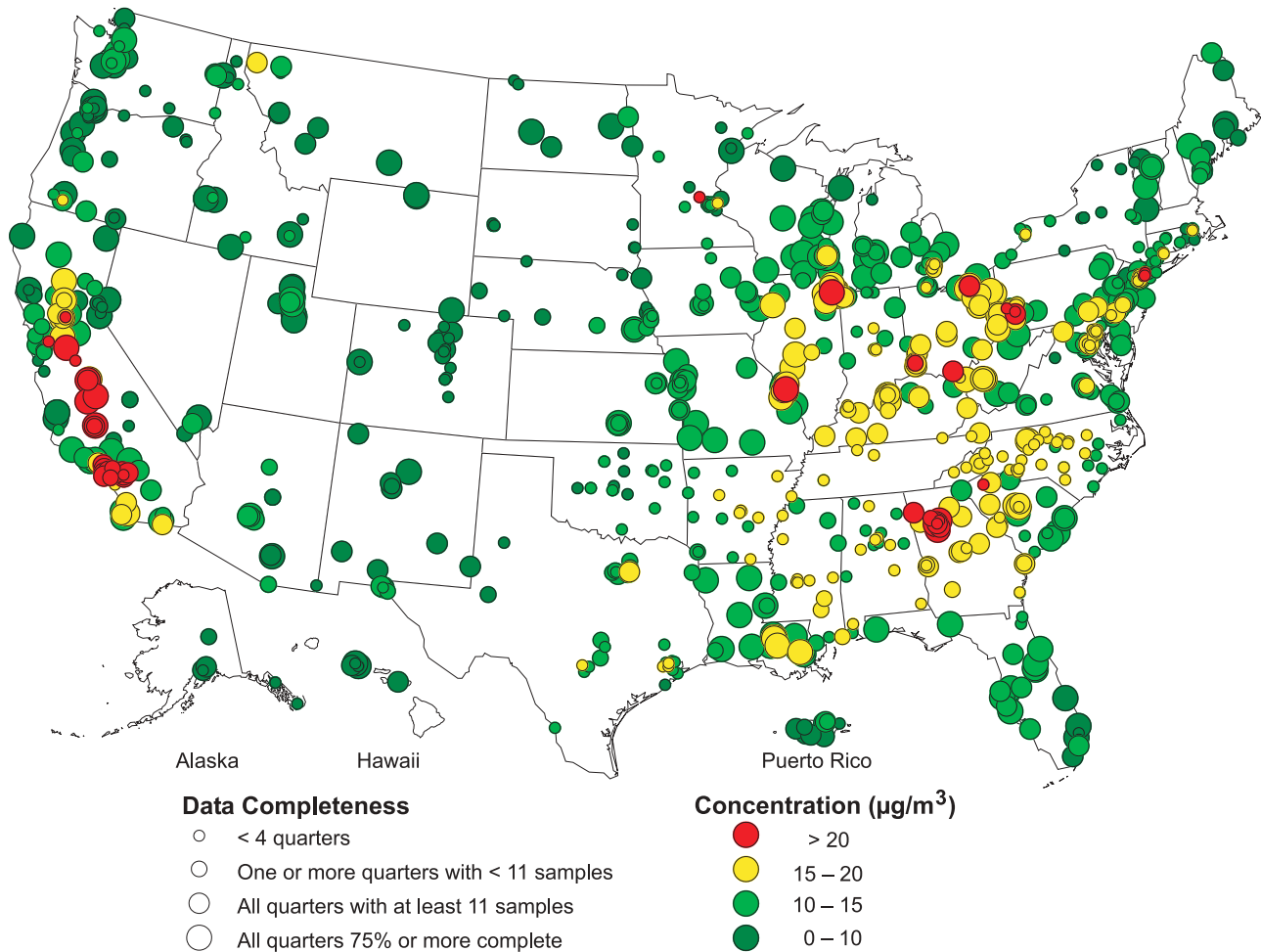




National Air Quality and Emissions Trends Report, 1999

1999 Annual Mean PM_{2.5} Concentrations ($\mu\text{g}/\text{m}^3$)



Source: US EPA AIRS Data base as of 7/12/00 without data flagged as 1, 2, 3, 4, T, W, Y, or X.

National Air Quality and Emissions Trends Report, 1999

U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Emissions Monitoring and Analysis Division
Air Quality Trends Analysis Group
Research Triangle Park, North Carolina 27711

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About the Cover

The map on the cover depicts nationwide annual mean PM_{2.5} concentrations from the Federal Reference Method (FRM) monitoring network, as well as information on data completeness. Annual mean concentrations are generally above the level of the 1997 standard of 15 µg/m³ in much of the eastern United States and throughout California. Annual mean concentrations above 20 µg/m³ are seen in several major metropolitan areas including Pittsburgh, Cleveland, Atlanta, Chicago, and St. Louis and Los Angeles. The western Great Plains and mountain regions show notably low annual mean concentrations, most below 10 µg/m³.

Data Source: U.S. EPA AIRS Data Base 1/30/01.

Disclaimer

This report has been reviewed and approved for publication by the U.S. Environmental Protection Agency's Office of Air Quality Planning and Standards. Mention of trade names or commercial products are not intended to constitute endorsement or recommendation for use.

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Preface

This is the 27th annual report on air pollution trends in the United States issued by the U.S. Environmental Protection Agency. The report is prepared by the Air Quality Trends Analysis Group (AQTAG) in Research Triangle Park, North Carolina and is directed toward both the technical air pollution audience and other interested parties and individuals.

The report can be accessed via the Internet at <http://www.epa.gov/airtrends/>. AQTAG solicits comments on this report and welcomes suggestions regarding techniques, interpretations, conclusions, or methods of presentation. Comments can be submitted via the website or mailed to:

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Readers can access data from the Aerometric Information Retrieval System (AIRS) at <http://www.epa.gov/airsdata/> and real time air pollution data at <http://www.epa.gov/airnow/>.

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Acronyms

AIRS	Aerometric Information Retrieval System	NARSTO	North American Research Strategy for Tropospheric Ozone
AQRV	Air-Quality Related Values	NESCAUM	Northeast States for Coordinated Air Use Management
AIRMoN	Atmospheric Integrated Assessment Monitoring Network	NLEV	National Low Emission Vehicle
CAA	Clean Air Act	NMOC	Non-Methane Organic Compound
CAAA	Clean Air Act Amendments	NO ₂	Nitrogen Dioxide
CARB	California Air Resources Board	NO _x	Nitrogen Oxides
CASAC	Clean Air Scientific Advisory Committee	NPS	National Park Service
CASTNet	Clean Air Status and Trends Network	NTI	National Toxics Inventory
CEMs	Continuous Emissions Monitors	O ₃	Ozone
CFR	Code of Federal Regulations	OTAG	The Ozone Transport Assessment Group
CO	Carbon Monoxide	PAHs	Polyaromatic Hydrocarbons
CMSA	Consolidated Metropolitan Statistical Area	PAMS	Photochemical Assessment Monitoring Stations
DST	Daylight Savings Time	PAN	Peroxyacetyl Nitrate
EPA	Environmental Protection Agency	Pb	Lead
FRM	Federal Reference Method	PBTs	Persistent and Bioaccumulative Toxics
GDP	Gross Domestic Product	PCBs	Polychlorinated Biphenyls
GLM	General Linear Model	PM ₁₀	Particulate Matter of 10 micrometers in diameter or less
HAPs	Hazardous Air Pollutants	PM _{2.5}	Particulate Matter of 2.5 micrometers in diameter or less
IADN	Integrated Atmospheric Deposition Network	POM	Polycyclic Organic Matter
I/M	Inspection and Maintenance Programs	ppm	Parts Per Million
IMPROVE	Interagency Monitoring of PROtected Environments	PSI	Pollutant Standards Index
MACT	Maximum Achievable Control Technology	RFG	Reformulated Gasoline
MARAMA	Mid-Atlantic Regional Air Management Association	RVP	Reid Vapor Pressure
MDN	Mercury Deposition Network	SLAMS	State and Local Air Monitoring Stations
MSA	Metropolitan Statistical Area	SNMOC	Speciated Non-Methane Organic Compound
MDL	Minimum Detectable Level	SO ₂	Sulfur Dioxide
NAAQS	National Ambient Air Quality Standards	SO _x	Sulfur Oxides
NADP/NTN	National Atmospheric Deposition Program/National Trends Network	TNMOC	Total Non-Methane Organic Compound
NAMS	National Air Monitoring Stations	TRI	Toxic Release Inventory
NAPAP	National Acid Precipitation Assessment Program	TSP	Total Suspended Particulate
		UATMP	Urban Air Toxics Monitoring Program
		VMT	Vehicle Miles Traveled
		VOCs	Volatile Organic Compounds
		µg/m ³	Micrograms Per Cubic Meter