



HEAT AND URBAN ENVIRONMENTAL ISSUES AIR POLLUTION

OVERVIEW

According to the Ambient Air Pollution database of the World Health Organization (WHO), almost nine out of ten people living in urban areas are affected by air pollution. Globally, air pollution is already a well-known public health risk factor; exposure to air pollution is the ninth leading risk for mortality worldwide, and it is responsible for 4.2 million deaths each year. Approximately 91 percent of these premature deaths occur in low- and middle-income countries, with the greatest number in South, East, and Southeast Asia. This risk is greater in urban areas where air quality is generally lower due to greater transportation, industrial and commercial emissions (e.g., road transport, power plants, fuel combustion, etc.). There is concern that climate variability and change could affect the morbidity and mortality associated with elevated concentrations of air pollutants, especially particulate matter (PM). (1, 18, 27, 30, 42)



Source: AIE, 2011

Over the past 50 years, hot days, hot nights, and heatwaves have become more frequent. Global average temperatures are expected to increase significantly by the 2050s, with particularly large increases in cities. Among the most vulnerable are developing countries in the tropics, where projections for warming temperatures in urban areas will likely influence and increase air pollution levels, dispersion and concentration. (32)

Key Impacts

PM

PARTICULATE MATTER (PM10, PM2.5)
Sunlight increases the formation of PM
Increased absorption of radiation
Poses the greatest risks to human health

NO₂

NITROGEN DIOXIDE
Increased heat and sunlight lead to higher NO₂
Exacerbates asthma and bronchitis symptoms
Increases the risk of heart attack

SO₂

SULFUR DIOXIDE
Increased heat increases SO₂ levels
Increases the risk of hospitalization and death due to COPD, heart attacks and asthma

O₃

GROUND-LEVEL OZONE
Increased heat and sunlight increases ozone
Increases hospitalizations and deaths due to COPD and asthma

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This document was prepared under the Adaptation Thought Leadership and Assessments (ATLAS) Task Order No. AID-OAA-L14-00013 and is meant to provide a brief overview of heat's effect on urban environmental issues. The key resources at the end of the document provide more in-depth analysis. The contents of this report do not necessarily reflect the views of USAID.

The Pollution Guide

N Noddings



The Pollution Guide:

A Guide to the Study of Environmental Pollution William A. Andrews, 1972 Outlines investigations and experiments that demonstrate major environmental problems in the United States *Audit and Accounting Guide* AICPA, 2018-07-11 With all the recent changes in state and local government audit and accounting including changes to some of the more complex areas such as pensions and post employment benefits other than pensions OPEB accountants and financial managers can't afford to be without the most current guidance This authoritative guide provides complete coverage of audit and accounting considerations critical for both preparers and auditors This edition includes two new schedules Governmental Employer Participation in Single Employer Plans Illustrative Schedule of Pension Amounts and Report and Illustrative Notes to Schedule of Employer Allocations and Schedule of Pension Amounts It also provides insights comparisons and best practices for financial reporting and the financial reporting entity revenue and expense recognition capital asset accounting the elements of net position accounting for fair value municipal securities offerings tax abatements and much more *EPA National Publications Catalog* United States. Environmental Protection Agency, 1999 **The Pollution Prevention Guide** Sandy Day, *Technical Publications* United States. Soil Conservation Service, 1989 *Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska* Lee H. MacDonald, Alan W. Smart, R. C. Wissmar, 1991 *Environmental policy tools : a user's guide.*, 1995 The search for smarter ways to prevent or control pollution has generated heated debate on almost every conceivable topic related to setting goals improving institutional arrangements and choosing the most effective means for achieving those goals This last issue choosing the means or policy instruments to meet environmental goals can be a surprisingly complex task for decision makers given the need to balance other competing concerns The environmental policy toolbox contains many and varied instruments but lacks a clear set of instructions for their use This OTA report fills that need The guide is organized into three major sections 1 The Environmental Policy Toolbox a discussion of 12 major policy tools their frequency of use and key strengths and weaknesses 2 The Criteria for Comparing Tools our evaluation of how effective these instruments are in achieving the values and interests or criteria decision makers are likely to weigh 3 Choosing Tools a series of questions for matching a tool or tools to a specific problem Choosing tools that satisfy several much less all of these criteria for a specific problem is the challenge Unfortunately no perfect policy tool exists to meet everyone's expectations for every problem **A Guide to the Study of Environmental Pollution** William A. Andrews, 1984 *EPA 200-B.*, 1999 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1968 **A Guide to the Study of Environmental Pollution** William A. Andrews, LeRoy, Alex C, Donna K. Moore, 1984 **The Consumer's Guide to Effective Environmental Choices** Michael Brower, Warren Leon, 2009-11-04 From one of the most prestigious nonprofit organizations devoted to environmental issues comes a clear practical and rational overview of the relationship between consumers and the environment Paper or plastic

Bus or car Old house or new Cloth diapers or disposables Some choices have a huge impact on the environment others are of negligible importance To those of us who care about our quality of life and what is happening to the earth this is a vastly important issue In these pages the Union of Concerned Scientists help inform consumers about everyday decisions that significantly affect the environment For example a few major decisions such as the choice of a house or vehicle have such a disproportionately large affect on the environment that minor environmental infractions shrink by comparison This book identifies the 4 Most Significant Consumer Related Environmental Problems the 7 Most Damaging Spending Categories 11 Priority Actions and 7 Rules for Responsible Consumption Learn what you can do to have a truly significant impact on our world from the people who are at the forefront of scientific research

Guide to Federal Funding for Governments and Nonprofits ,2002 California Environmental Law; a Guide Gerald R. Mylroie,1974 Source Book and Bibliographical Guide for American Church History Peter George Mode,1921 **Guide to World Science** Trevor Illtyd Williams,1974

State Official's Guide to Environmental Management Systems Yvette Hurt,2003 The Highway Acts, 1862-1878, the Locomotive Acts, 1861-1878, and the General Provisions of the Turnpike Continuance Acts, 1863-1878 Alexander Glen,1879 *Sanitary examinations of water, air, and food* Cornelius Benjamin Fox,1886 **The Public Health Act, 1875, and Other Statutes and Parts of Statutes Relating to the Public Health** Frederic Stratton,1894

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