



# 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 (PM<sub>10</sub>, PM<sub>2.5</sub>)**

Sunlight increases the formation of PM  
Increased absorption of radiation  
Poses the greatest risks to human health

**NO<sub>2</sub>**

#### **NITROGEN DIOXIDE**

Increased heat and sunlight lead to higher NO<sub>2</sub>  
Exacerbates asthma and bronchitis symptoms  
Increases the risk of heart attack

**SO<sub>2</sub>**

#### **SULFUR DIOXIDE**

Increased heat increases SO<sub>2</sub> levels  
Increases the risk of hospitalization and death due to COPD, heart attack and asthma

**O<sub>3</sub>**

#### **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

**Brendan G. Carr**



## **The Pollution Guide:**

**Pollution Prevention (P2) Guidance Manual for the Pesticide Formulating, Packaging, and Repackaging Industry** ,1998     *Air Pollution Control Field Operations Manual* United States. Division of Air Pollution,1962     *Federal Facility Pollution Prevention Planning Guide* ,1994     *Water Quality Field Guide* ,1983 The purposes of this guide are to provide information to Soil Conservation Service SCS Field Office Personnel on the control of nonpoint sources of pollution from agricultural lands and to incorporate a water quality perspective into all conservation planning Nonpoint source pollution is both a relatively concern and a complex phenomenon with many unknowns Knowing the extent to which agricultural sources contribute to the total pollution load the extent to which various control practices decrease this load and the effect of reducing the pollutants delivered to a water body are basic to the achievement of water quality Page 3     *The churchwarden's guide* Churchwarden,1882     *A Guide to Pollution Prevention Planning* ,2004     **EPA National Publications Catalog** United States. Environmental Protection Agency,     *Guide to Research in Air Pollution* ,1970

**The Unions' and parish officers' year-book [afterw.] The Union, parish, and board of health officers' pocket almanac and guide [afterw.] The Local government officers' almanac and guide [afterw.] The Local government directory, almanac and guide** ,1880     *Text-book of Hygiene* George Henry Rohé,1894     *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch,1974     **Manual for Medical Officers of Health** Edward Smith,1878     **The history of the year 1876, containing 'The Year book of facts' and 'The Annual summary'**. James Mason,1876     *The Year-book of the Scientific and Learned Societies of Great Britain and Ireland* ,1890     **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress,1968     **The Bazaar Book** Henry Martyn Scudder,1869     The Health Officer's Pocket-book Edward Francis Willoughby,1893     **The Year-book of Facts in Science and Art** ,1877     **A legal guide for the clergy** Richard Denny Urlin,1881     **The Annual of Scientific Discovery, Or, Year-book of Facts in Science and Art** ,1871

The Pollution Guide: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Pollution Guide : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. The Pollution Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. The Pollution Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://auld.rmjm.com/data/browse/fetch.php/The%20Minor%20Poems%20Of%20The%20Vernon%20Ms%20Early%20Englis%20Text%20Society%20Original%20Kraus.pdf>

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