

# Environmental Science

## Chapter 10

### 10.1 Air Pollution and Health

- The Clean Air Act Regulates Major Pollutants 1970
- These six are referred to as **conventional or criteria pollutants**, and they include sulfur dioxide, nitrogen oxides, carbon monoxide, ozone (and its precursor volatile organic compounds), lead, and particulate matter.
- The EPA also monitors **unconventional pollutants**, compounds that are produced in less volume than conventional pollutants, but that are especially toxic or hazardous.
- A **point source** is a smokestack or some other concentrated pollution origin.
- **Primary pollutants** are released in a harmful form.
- **Secondary pollutants** become hazardous after reactions in the air.
- **Fugitive or nonpoint-source** emissions are those that do not go through a smokestack.
- **Sulfur dioxide (SO<sub>2</sub>)** is a colorless, corrosive gas that damages both plants and animals.
- **Nitrogen oxides (NO<sub>x</sub>)** are highly reactive gases formed when the heat of combustion initiates reactions between atmospheric nitrogen (N<sub>2</sub>) and oxygen (O<sub>2</sub>). The initial product, nitric oxide (NO), oxidizes further in the atmosphere to nitrogen dioxide (NO<sub>2</sub>), a reddish-brown gas that gives photochemical smog its distinctive color.
- **Carbon monoxide (CO)** is a colorless, odorless, but highly toxic gas produced mainly by incomplete combustion of fuel (coal, oil, charcoal, wood, or gas). CO inhibits respiration in animals by binding irreversibly to hemoglobin in blood.
- **Ozone (O<sub>3</sub>)** ground level ozone is highly reactive oxidizing agent that damages eyes, lungs, and plant tissues, as well as paint, rubber, and plastics. It is a secondary pollutant, created by chemical reactions that are initiated by solar energy.
- Interacting with ozone to produce smog are a variety of **volatile organic compounds (VOCs)** contribute to the formation of ozone and other photochemical oxidants.
- **Lead**, our most abundantly produced metal air pollutant, impairs nerve and brain functions.
- **Particulate material** includes dust, ash, soot, lint, smoke, pollen, spores, algal cells, and many other suspended materials like aerosols.
- A special category of toxins is monitored by the U.S. EPA because they are particularly dangerous. Called **hazardous air pollutants (HAPs)**, these chemicals cause cancer, nerve damage, disrupt hormone function, and fetal development. These persistent substances remain in ecosystems for long periods of time, and accumulate in animal and human tissues.
- In 1986, Congress established the **Toxic Release Inventory (TRI)** to help inform communities about toxic substances produced and handled in their area.
- Mercury Is a Key Neurotoxin

### 10.2 Air Pollution and the Climate

- Chemical reactions of atmospheric gases and pollution produce the phenomenon known as the **ozone hole**. Chlorine-based aerosols, such as CFC's and HCFC's, are the principal agents of ozone depletion.

# Environmental Science 10chapter 1key Terms

**Michael Brown**



## **Environmental Science 10chapter 1key Terms:**

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*Environmental Science* Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2007 *The Critical Importance Of Environmental Preservation Is Apparent To Everyone The Issues Facing Us Today Be They Global Warming The Depleting Ozone Layer The Controversy Over Nuclear Power Or The Continuing Problems Of Water Pollution And Solid Waste Disposal Are Headline News Environmental Science Systems And Solutions Fourth Edition* offers the basic principles necessary to understand and address these multi faceted and often very complex current environmental concerns The book provides a comprehensive overview and synthesis of environmental science and provides the basic factual data necessary to understand the environment as it is today It is important that students understand how various aspects of the natural environment interconnect with each other and with human society using a systems approach The authors have organized complex information in a way that highlights these connections in a fair and unbiased fashion A study guide is incorporated at the end of each chapter to help reinforce concepts and provide a clear overview of material

Environment Peter H. Raven, Linda R. Berg, David M. Hassenzahl, 2012-12-17 Raven s 8th edition of *Environment* offers more detailed content than the *Visualizing* text for a better understanding and integration of the core environmental systems and to view and analyze the role those systems play Shorter but still comprehensive coverage focuses on ethical decision making and key local environmental science issues requiring readers to think critically about the course material outside of the classroom Other features include brief text in the comprehensive segment extensive chapter pedagogy to help reinforce the systems approach more opportunities to think critically about the how systems intersect and fit together and new data interpretation questions at the end of each chapter **AP Environmental Science Crash Course** Gayle Evans, 2011-10-01 REA s *AP Environmental Science Crash Course* is the first book of its kind for the last minute studier or any AP student who

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**Environmental Science , Environmental Science** Daniel Chiras,2010 Completely updated the eighth edition of Environmental Science enlightens students on the fundamental causes of the current environmental crisis and offers ideas on how we as a global community can create a sustainable future

**NBS Special Publication ,1968 Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards,1978

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