

Chapter 1

1. The authors have expanded coverage on sustainable development and Agenda 21.

Chapter 2

1. The authors have added a new section “Do We Consume Too Much?”
2. More information has been added to the section on the Global Reporting Initiative.
3. A new Global Perspective boxed reading, The Gray Whales of Neah Bay, has been created.

Chapter 3

1. The section on public perceptions of environmental risks has been expanded.
2. More information has been added to the material on extended product responsibility.

Chapter 4

1. The section on the scientific method has been completely rewritten.
2. The authors added material on isotopes and included a new illustration.
3. A new section on the molecular nature of matter has been added.
4. The usage of the words molecule, compound, ions, etc., has been corrected per reviewer input.
5. Material on endothermic and exothermic reactions has been added.
6. Authors have written new text on chemical reactions for photosynthesis and respiration.

Chapter 5

1. Authors added a section entitled Genes, Populations, and Species.
2. Examples of lodgepole pine and herbicide resistance have been added to the material on evolution.
3. A new herbicide resistance illustration has been included.
4. Information on polyploidy has been added to the speciation section.
5. The term biogeochemical cycles has been introduced to the nutrient cycles section.
6. Information about the operation of the carbon cycle in aquatic systems has been added.

Chapter 6

1. The authors rewrote the discussion of succession.
2. New content on the ways that humans affect the process of succession has been added.
3. Mediterranean shrublands (Chaparral) and Tropical Dry Forests are now included in the biomes.

Chapter 7

1. Authors have updated human population information with new data from the Population Reference Bureau’s 2002 Population Data Sheet.
2. Per reviewers’ requests, more explanation on how the population growth rate is calculated has been included.
3. A new illustration on survivorship curves has been added, and the survivorship section was moved to a more appropriate place in the chapter.
3. Material on age distribution has been revised.
4. Fig 7.1 now includes new data from the Population Data Sheet.
5. The Issues and Analysis reading on Wolves and Moose on Isle Royale has been updated.

Chapter 8

1. The information on human population issues has been updated.
2. Includes a new table (8.1) on population characteristics of the 20 most populous countries.
3. The authors have altered the section on Population Growth and Standard of Living.
4. More information from the 2000 census has been included.
5. New figure 8.2 now includes a table of the twenty most populous countries, their total fertility rate, female literacy rate and GNI PPP.
6. Old figure 8.7 on U.S. population growth has been replaced.
7. The authors have updated the boxed reading on AIDS.

Chapter 9

1. The authors have added coverage of variations in yearly gasoline prices.
2. The section on the instability of global oil production has been expanded.
3. Two new figures, 9.6 (What We Pay For in a Gallon of Regular Gasoline), and 9.9 (World Oil Market Chronology: 1970-2000), have been added to this chapter.
4. Two new tables have been included, one on Drive Time, and one on Sources of U.S. Imported Oil.
5. Statistics on oil consumption by the world have been added.

Chapter 10

1. The authors have expanded coverage on wind, tidal and hydropower.
2. Information on the Arctic National Wildlife Refuge, and gasoline price swings has been updated.
3. A new Global Perspective boxed reading on Hydrogen Fuel Cells has been added to this chapter.

Chapter 11

1. The authors have written a new Environmental Close-up boxed reading—The Hanford Facility: A Legacy of Contamination.
2. The text on Chernobyl and worldwide nuclear power plants has been updated.
3. The section on decommissioning policies for nuclear facilities has been expanded.
4. The authors have added more information about nuclear terrorism.

Chapter 12

1. The authors have completely rewritten the section on plantation forestry.
2. The definitions of marine, brackish, and freshwater were clarified.
3. Figure 12.1 has been modified.
4. Figure 12.2 has been updated with new photos and captions.
5. A new figure (12.5) on changes in forest area has been created.
6. Figure 12.10 has been replaced by a new figure showing trends in world fish production including capture and aquaculture.
7. The authors have rewritten the section on aquaculture.
8. A paragraph has been included in the waterfowl management section on the African Eurasian waterbird agreement.
9. Information has been added on the role of keystone species and how their elimination alters ecosystems.
10. References to President Bush's administrative policy have been updated.

Chapter 13

1. The authors have added a new section entitled Smart Growth.
2. A new table on state comprehensive growth legislation has been created.
3. A new Issues and Analysis box called Decision Making in Land Use Planning: Growing Smarter to Protect Habitats has been added to this chapter.

Chapter 14

1. Table 14.1, Percentage of Land Suitable for Agriculture, has been updated.
2. Information on land degradation has been expanded.

Chapter 15

1. An Environmental Close-Up boxed reading on industrial livestock production has been created.
2. At the suggestion of reviewers, the section on integrated pest management has been divided by sub-titles.
3. The authors have rewritten the information on genetically modified organisms in the integrated pest management section.

Chapter 16

1. A new Global Perspective boxed reading on the dead zone in the Gulf of Mexico has been created.

2. The authors have expanded coverage on the topic of global water issues.
3. More information has been added on water treatment in the Salina Valley, California.
4. The section on chemicals entering drinking water sources has been increased.
5. The discussion of the New York City water supply has been bolstered by additional information.
6. The authors have updated text on the water diversions and extractions section.
7. Material on wetlands has been expanded.
8. A new table on the population of the world's ten largest watersheds has been created.
9. A new table has been included on international water disputes.
10. The authors have included new coverage of the National Research Council's report, "Envisioning the Agenda for Water Resource Research in the 21st Century."

Chapter 17

1. The authors have fully reorganized this chapter.
2. The text has been changed to include discussions on the six criteria air pollutants rather than five.
3. Figure 17.1 was modified.
4. New figures 17.8 (Photochemical Smog), 17.9 (Changes in Pollutants During a Photochemical Smog Incident), 17.10 (Thermal Inversion), and 17.11 (Air Quality) have been created.
5. The authors have updated figure 17.17 (formerly figure 17.15).
6. Figure 17.19 (formerly figure 17.18) has been improved with more accurate data.
7. Per reviewer suggestion, the section on ozone now precedes the global warming section.
8. Causes of pollution have been moved under its own heading, separating it from programs to control pollution.
9. The authors have added the Kyoto protocol to this chapter.
10. A new table on national air quality standards has been created.

Chapter 18

1. The authors have added introductory material on solid waste other than municipal, such as mining, manufacturing, and agricultural.
2. Information about Fresh Kills landfill has been updated.
3. The authors have reworked the material on kinds of composting.

Chapter 19

1. The material on waste minimization and pollution prevention has been consolidated under the heading, "Reducing the Amount of Waste at the Source."
2. Information on the different agencies that set regulations has been added.
3. A paragraph has been included on the success of Superfund.
4. The information on incineration has been transferred from the treatment method section to the disposal method section.
5. The authors have updated the table, Top Fifteen Hazardous Substances.
6. The table on hazardous waste management methods has been modified.
7. Figure 19.4 on toxic releases now includes new 2000 data.
8. Figure 19.5 on the pollution-prevention hierarchy has been completely revised.
9. The authors have added an Environmental Close-Up reading on brownfields.

Chapter 20

1. A section on biological, chemical, and eco-terrorism has been added.
2. The table, Major U.S. Environmental and Resource Conservation Legislation, has been updated.
3. The authors have added an Environmental Close-up reading on United States environmental policy.
4. Information on global environmental agreements has been expanded.