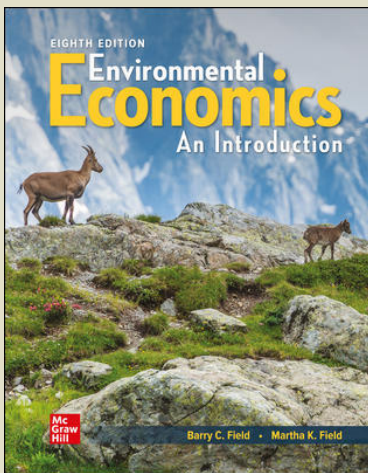


List of Changes



Environmental Economics 8th Edition

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The eighth edition of *Field Environmental Economics*, eighth edition, contains new exhibits and updated figures and tables. It also contains new materials on:

- Paris Agreement - Chapters 18 and 19
- Economics of Adaptation - Chapter 18
- Developing Countries and the Paris Agreement - Chapter 21
- Climate Change and Globalization - Chapter 20
- Carbon Intensity of Trade - Chapter 20
- Greenhouse Gas Emissions - Chapter 20
- Recycling Markets - Chapter 17
- Frank Lautenberg Chemical Safety for the 21st Century Act - Chapter 16
- Emission Trading in Water Pollution Control - Chapter 14
- Income Distribution of Emission Charges - Chapter 12
- Community Resiliency - Chapter 21
- Total Maximum Daily Load - Chapter 14

Chapter by Chapter Changes

Chapter 1

- Replaced Exhibit 1.1 to **Experience with PAYT Programs**
- Updated Exhibit 1.2 **Carbon Taxes Around the World**
- Replaced Exhibit 1.5 to **Economic Growth and the Environment**
- Updated data in **Table 1.1 CO2 Emissions per Capita, Selected Countries**

Chapter 2

- Added section **Environmental Sustainability and Green GDP**
- Added Exhibit **2.1 Green GDP**
- Renumbered Exhibit 2.1 **Managing Episodic Sources of Pollution** to Exhibit 2.2

Chapter 3 – Updated figures and tables

Chapter 4

- Updated data in Exhibit 4.1 **External Costs Associated with Driving Automobiles**
- Added more examples and cases of external costs

Chapter 5 – Updated figures and tables

Chapter 6

- Green GDP moved to Chapter 2
- Exhibit 6.3 changed to Exhibit 6.2 to **Benefits and Costs of New Regulations Requiring Coal-Fired Power Plants to Improve Their Handling of Coal Combustion Residues (CCR)**
- Exhibit 6.4 changed to Exhibit 6.3 to **The Effects of Discounting**

Chapter 7

- Updated data in Table 7.1 **Estimated Cost of Asthma in the United States**
- Updated data in Table 7.2 **Implied Value of a Statistical Life as Estimated in Labor Market Studies**
- Deleted Table 7.3
- Some Contingent Valuation examples updated

Chapter 8

- Updated data in Exhibit 8.1 **The Environmental Industry**
- Updated data in Table 8.3 **Pollution Abatement & Control Expenditures (PAC) as a Percentage of Gross Domestic Product (GDP), Selected Organization for Economic Cooperation and Development (OECD) Countries, Latest Available Year**

Chapter 9

- Expanded discussion of **Environmental Justice**

Chapter 10

- Added industry examples to Table 10.1 **Examples of Voluntary Pollution Reduction Programs (VPRPs) in the United States**
- Updated discussion of **Green Power**

Chapter 11

- Updated data in Exhibit 11.1 **Standards Applicable to Snowmobiles**

Chapter 12

- Updated content of Exhibit 12.1 **Environmental Taxes in Europe**
- Deleted Exhibit 12.2
- Reorganized discussion of emission charges, tax revenues and impact on income and wealth
- Added examples to Exhibit 12.2 (renumbered) **Types of Environmentally Related Subsidies**

Chapter 13

- Added discussion of price-based vs quantity-based systems

Chapter 14

- Added to Table 14.1 **2014 Water Infrastructure Finance and Innovation Act**
- Deleted Table 14.3
- Updated data in Table 14.4 **Progress in Public Wastewater Treatment Facilities**
- Replaced Exhibit 14.1 to **Water Contamination**
- Updated data in Figure 14.3 **Volume and Number of Oil Spills for Incidents in Navigable U.S. Waters, 1973–2017**
- Deleted Exhibit 14.2
- Deleted Exhibit 14.3
- Added Figure 14.4 **TMDLs Approved by the EPA, 1996–2018**
- Added discussion of stormwater run-off and the National Network on Water Quality Trading
- Deleted Table 14.6

Chapter 15

- Updated data in Table 15.1 **National Emissions Estimates for Common Pollutants and their Precursors**
- Updated data in Table 15.2 **National Primary and Secondary Ambient Air Quality Standards as of 2018**
- Updated examples of **Emissions Trading in Stationary-Source Control – Cap-and-Trade** programs for air pollution
- Updated data in Figure 15.1 **SO₂ Permit Prices, 1997 to 2017**
- Updated data for **Total Miles Driven by year**
- Updated data in Table 15.6 **Automobile and Light Trucks Emission Standards, Past and Future**
- Updated data in Table 15.7 **Vehicle GHG Restrictions for Passenger Cars in Selected Countries**
- Updated data in Table 15.8 **U.S. CAFE and GHG Standards for Automobiles, Selected Years, 1978–2025**

Chapter 16

- Updated examples and data in Table 16.1 **Federal Laws Dealing with Chemicals in Production and Consumer Products**
- Updated labeling in Figure 16.1 **Cost–Benefit Balancing in Regulating Exposure to a Chemical**
- Added discussion of **2016 amendments to TSCA** and **2016 Lautenberg Act**
- Deleted Figure 16.2
- Updated content in Exhibit 16.4 **Sparring over MACT for Mercury**
- Updated data in Table 16.3 **Hazardous-Waste Quantities Managed in 2017, by Management Methods**
- Updated discussion of **Low-level radioactive wastes**
- Replaced Exhibit 16.5 to **Federal and State Trustees Reach \$4.5 Million Settlement with Three Companies for Natural Resource Damages Incurred at Sheboygan River & Harbor Superfund Site**
- Updated list of **CERCLA or Superfund site cases**
- Updated discussion of section **Cleaning Up the Nuclear Buildup**

Chapter 17

- Delete Table 17.1
- Updated data in Table 17.2 **Municipal Solid Waste, Selected Data**
- Updated data in Table 17.4 **Municipal Solid Waste Generated and Recovered in the United States, 2015**
- Updated discussion of single-stream recycling

Chapter 18

- Increased focus on **climate change**
- Added new section on **Economics of Adaptation**
- Expanded discussion of **The Paris Agreement/United Nations Framework Convention on Climate Change**
- Updated data in Exhibit 18.2 **The Quick Story**
- Updated data in Table 18.1 **Major Greenhouse Gases**
- Updated data and discussion of **current world production rate of CO₂**
- Updated discussion of **Mitigation and Adaptation**
- Updated content in Table 18.2 **Cost-Effectiveness of Alternative Means of Reducing CO₂, United States, 2030**
- Deleted Table 18.3
- Deleted Exhibit 18.3
- Updated data in Table 18.4 **Social Cost of CO₂, 2015–2050**

Chapter 19

- Expanded discussion of **The Paris Agreement/United Nations Framework Convention on Climate Change**
- Updated content in Exhibit 19.1 **Rehabilitating the Ozone Layer**

Chapter 20

- Expanded focus on **globalization and climate change**
- Expanded examples of **regional trade agreements**

Chapter 21

- Reorganized discussion of **property rights**
- Added new section on **The Paris Agreement and Developing Countries**
- Deleted Exhibit 21.2