

CONTENTS

<i>Figures and Tables</i>	<i>page</i> viii
<i>Acknowledgments</i>	ix
<i>Abbreviations</i>	xi
1 Introduction	i
2 An Overview of Environmental Health	9
3 Ethical Theory	38
4 Toward an Environmental Health Ethics	56
5 Pest Control	80
6 Genetic Engineering, Food, and Nutrition	103
7 Pollution and Waste	133
8 The Built Environment	158
9 Climate Change, Energy, and Population	171
10 Justice and Environmental Health	202
11 Environmental Health Research Involving Human Participants	222
12 Conclusion	242
<i>References</i>	249
<i>Index</i>	293

FIGURES AND TABLES

FIGURES

1.1 Rachel Carson	<i>page 3</i>
5.1 <i>Anopheles freeborni</i> Mosquito Taking a Blood Meal	91
6.1 From Genes to Proteins	105
6.2 Global GM Crop Plantings, 1996–2005	111
7.1 U.S. Ozone Air Quality, 1980–2009	137
7.2 U.S. NO ₂ Air Quality, 1980–2009	137
8.1 Cumulative Deforestation of the Amazon Jungle, 1988–2010	159
9.1 Global Surface Temperatures since 1880	173
9.2 Atmospheric Carbon Dioxide Concentrations since 400,000 BCE	173
9.3 World Energy Consumption, 2008	182
9.4 World Population, 1950–2050	194

TABLES

2.1 Environmental Health Disciplines	10
3.1 Action-Guiding Characteristics of Different Ethical Theories	53
4.1 A Principle-Based Method for Ethical Decision Making	66
4.2 Principles of Environmental Health Ethics	77
9.1 Top Ten Most Populous Countries in 2010 and 2050	194
9.2 Demographic Age Groups for the World Population in 2010 and 2050	195
10.1 U.S. Cancer Incidence and Death Rates	203
10.2 HIV/AIDS Prevalence among Adults in 2009	204
11.1 U.S. Human Research Participant Protection Timeline	225