Environmental Valuation in Developed Countries
Case Studies

Edited by
David Pearce
Formerly Emeritus Professor of Economics, University College London, UK

Edward Elgar
Cheltenham, UK • Northampton, MA, USA
Contents

List of contributors vii
Acknowledgements xi
David Pearce (1941–2005): a tribute xiii

1 Introduction: valuing environments in the rich world
   David Pearce 1

PART I NATURAL RESOURCES: FORESTS, BIODIVERSITY, WATER AND ENERGY

2 Cost–benefit analysis of Irish forest policy
   J. Peter Clinch 15

3 Costs and benefits of UK forestry policy
   Bob Crabtree 36

4 Valuing changes in farmland biodiversity using stated preference techniques
   Mike Christie, Nick Hanley, John Warren, Tony Hyde, Kevin Murphy and Robert Wright 50

5 Implications of declining discount rates for UK climate change policy
   Ben Groom, Cameron Hepburn, Phoebe Koundouri and David Pearce 77

6 Valuing perceived risk of genetically modified food: a meta-analysis
   Clare Hall, Dominic Moran and David Allcroft 97

7 Valuing water quality changes in the Netherlands using stated preference techniques
   Roy Brouwer 132

8 Measuring environmental externalities in the electric power sector
   Patrik Söderholm and Thomas Sundqvist 148

9 Quantifying the environmental impacts of renewable energy: the case of Swedish wind power
   Kristina Ek 181
PART II AMENITY AND WATER QUALITY

10 Underground or overground? Measuring the visual disamenity from overhead electricity transmission lines
   Giles Atkinson, Brett Day and Susana Mourato
   213
11 Using choice experiments to value urban green space
   Craig Bullock
   240
12 Valuing the environmental benefits of water industry investment in England and Wales
   Bruce Horton and Jonathan Fisher
   252
13 Valuing water service level changes: a random utility approach and benefit transfer comparison
   Kenneth Willis and Riccardo Scarpa
   274
14 The value of a tidier Thames: willingness to pay to reduce sewage overflows
   Susana Mourato, Ece Özdemiroğlu, Giles Atkinson, Jodi Newcombe and Yvette de Garis
   293
15 Cost–benefit analysis and the prevention of eutrophication
   Ian Bateman, Brett Day, Diane Dupont, Stavros Georgiou, Nuno Gonçalo Matias, Sanae Morimoto and Logakanthi Subramanian
   317
16 Is it worth revising the European Bathing Water Directive? A choice experiment
   Susana Mourato, Allan Provins, Ece Özdemiroğlu, Stavros Georgiou and Jodi Newcombe
   343
17 Hedonic price analysis of road traffic noise nuisance
   Brett Day, Ian Bateman and Iain Lake
   363

PART III VALUATION AND SECTORAL GREEN ACCOUNTING

18 Towards green sectoral accounts for UK agriculture
   Jodi Newcombe, Ece Özdemiroğlu and Giles Atkinson
   409
19 Scale issues and scaling procedures in integrated water accounting
   Roy Brouwer, Sjoerd Schenau and Rob van der Veeren
   435

Index
   449