

# The Economics of Natural Environments

Studies in the Valuation of  
Commodity and Amenity Resources

JOHN V. KRUTILLA  
ANTHONY C. FISHER

A Book from Resources for the Future

# Economics Of Natural Environments Studies In The Valuation Of Commodity And Amenity Resources

**Partha Dasgupta, Karl-Göran Mäler**



## **Economics Of Natural Environments Studies In The Valuation Of Commodity And Amenity Resources:**

The Economics of Natural Environments John V. Krutilla, Anthony C. Fisher, 2022-03-01 In this pioneering study Krutilla and Fisher put the amenity resources of natural environments into an analytical framework comparable to that for the extractive resources. The models and theoretical background of their techniques are illustrated by case studies which include the controversial Hells Canyon dam, the Mineral King ski resort, and the Trans-Alaska pipeline. The authors point out that resource development activities undertaken on public lands often receive financial advantages: preferential tax treatment, subsidized capital, and access to public resources that are not taken into account in the costs of the project. True evaluation of the costs and benefits of a development project often tips the balance in favor of preserving an area in a natural state.

*The Economics of Natural Environments* John V. Krutilla, Anthony C. Fisher, 1985 In this pioneering study Krutilla and Fisher put the amenity resources of natural environments into an analytical framework comparable to that for the extractive resources. The models and theoretical background of their techniques are illustrated by case studies which include the controversial Hells Canyon dam, the Mineral King ski resort, and the Trans-Alaska pipeline. The authors point out that resource development activities undertaken on public lands often receive financial advantages: preferential tax treatment, subsidized capital, and access to public resources that are not taken into account in the costs of the project. True evaluation of the costs and benefits of a development project often tips the balance in favor of preserving an area in a natural state.

**Economic Valuation of Water Resources in Agriculture** R. Kerry Turner, 2004-01-01 The purpose of this report is to produce a review on water resource valuation issues and techniques specifically for the appraisal and negotiation of raw as opposed to bulk or retail water resource allocation for agricultural development projects. The review considers raw water in naturally occurring watercourses, lakes, wetlands, soil, and aquifers, taking an ecosystem function perspective at a catchment scale and takes account of the demands from irrigated and rainfed agriculture. It is hoped that the review will have particular application to developing countries where agreed methods for reconciling competing uses are often absent but nevertheless takes account of valuation approaches that have been made in post-industrial economies.

**Environmental and Natural Resource Economics** Timothy C. Haab Ph.D., John C. Whitehead, 2014-03-28 Accessible to students and practitioners without an advanced degree in environmental economics, this essential reference work pinpoints the role of the economy in both creating and solving many of the world's most pressing environmental challenges. Given the number and scope of environmental problems we face today, everyone from high school students to policy makers to concerned citizens should understand how the economy works and grasp how meltdowns, both economic and environmental in nature, can be avoided.

**Environmental and Natural Resource Economics** An Encyclopedia offers the critical information needed to comprehend these complex issues. The entries cover topics in a manner parallel to how environmental economics is commonly taught, addressing basic concepts, environmental policy, natural resource economics, market failure, exhaustible and renewable resources, benefit

cost analysis and applied welfare economics Additionally the book includes entries on key concepts of economics movements events organizations important individuals and research areas relevant to the study of environmental and natural resource economics This work stands alone as the only title currently offering such a breadth of coverage and level of detail written specifically for readers without specialized knowledge of environmental economics

**Economics of Protected Areas and Its Effect on Biodiversity** Ram Bir Singh Kushwah,2001 With reference to India

**Welfare, Inequality, and Resource Depletion** Mariano Torras,2019-10-28 This book breaks new ground by accounting for the welfare implications of both severe inequality and environmental degradation and developing a sustainable development indicator that incorporates changes over time in each of these dimensions The model is applied to data from Brazil spanning the 1965 1998 period The book s findings cast significant doubt on the proposition that rapid economic growth in Brazil has resulted in comparable welfare gains The evidence presented more generally illustrates the often unsustainable nature of rapid GDP growth phases as well as the general unreliability of GDP growth as an indicator of well being improvement The specific policy implication is that Brazil should discontinue or at least severely curtail the regressive and resource intensive economic policies it has followed in recent decades in the interest of welfare improvement not only for the poorer groups in society but for future generations of Brazilians as well

**Ecology and Coal Resource Development** Mohan K. Wali,2013-09-17 Ecology and Coal Resource Development Volume One covers the proceedings of the International Congress for Energy and the Ecosystem held at the University of North Dakota Grand Forks North Dakota on June 12 16 1978 The book focuses on the factors and considerations involved in the interrelation of ecology and coal resource development The selection first tackles the U S coal development policy coal s response to the challenge in the national energy plan coal utilization and supply and the role of the Office of Surface Mining on combining energy and the environment The book then examines the assessment of the effects of alternative public policies on western coal development opencast coal mining and the environment in the United Kingdom mining ecology and environmental problems of coal mining in Australia and mining dewatering and environmental effects The manuscript takes a look at combating pollution created by coal burning generating plants in Yugoslavia policy aspects of energy resource development on Indian lands interactive computerized planning of surface coal mining operations and simulation models for surface coal mine planning The selection is a dependable reference material for scientists and researchers interested in the marriage of ecology and coal resource development

*Indian Economy and Society in the Era of Globalisation and Liberalisation* Ali Mohammed Khusro,N. S. Siddharthan,2005 A Tribute To The Great Economist Prof A M Khusro This Book Seeks To Address Issues Of Current Relevance Agriculture Land Reforms And Anti Poverty Programmes Environment Globalisation Liberalisation And Trade Macro Models And Growth Population Secularism And Religion

**Economics of the Environment** Horst Siebert,2013-11-27 The Illbör of nature is paid not because she does little In proportion as she becomes niggardly in her gifts she exacts a greater price for her work Where she is munificently benefi

cient she always works gratis David Ricardo This book interprets nature and the environment as a scarce resource Whereas in the past people lived in a paradise of environmental superabundance at present environmental goods and services are no longer in ample supply The environment fulfills many functions for the economy it serves as a public consumption good as a provider of natural resources and as receptacle of wastes These different functions compete with each other Releasing more pollutants into the environment reduces environmental quality and a better environmental quality implies that the environment's use as a receptacle of wastes has to be restrained Consequently environmental disruption and environmental use are by nature allocation problems This is the basic message of this book If a resource is scarce and if a zero price is charged for its use then misallocation will result The environment as a receptacle of wastes is heavily overused and consequently environmental quality declines Scarcity requires a price This book analyzes how this price should be set whether a correct price can be established through the market mechanism and what role the government should play The book offers a theoretical study of the allocation problem and describes different policy approaches to the environmental problem

The International Yearbook of Environmental and Resource Economics 2004/2005 Thomas H. Tietenberg, Henk Folmer, 2005-01-01 The 2004 5 edition of this annual publication provides again a first rate compilation of various major topics in environmental and resource economics written by the leading specialists in the field The contributions are an exciting and inspiring resource for the development of further research and this book should be recommended to students and researchers in environmental and resource economics as well as social science Katrin Daedlow Environmental Politics As every year Tom Tietenberg and Henk Folmer have edited The International Yearbook of Environmental and Resource Economics This book and indeed the whole collection are tremendously useful as basic tools for professionals in research teaching and policy making Michel Griffon Quarterly Journal of International Agriculture This major annual publication provides a state of the art survey of contemporary research on environmental and resource economics by some of the leading experts in the field The critical issues addressed in this year's volume include contingent valuation environmental policy technological change and economic growth land use decisions and policy sustainability indicators value transfer and environmental policy joint implementation in climate change policy environmentally harmful subsidies

**Capitalizing on Nature** Edward B. Barbier, 2011-09-08 The basic unit of nature the ecosystem is a special form of wealth which we can think of as a stock of natural capital However perhaps because this capital is free we have tended to view it as limitless abundant and always available for our use exploitation and conversion Capitalizing on Nature shows how modeling ecosystems as natural capital can help us to analyze the economic behavior that has led to the overuse of so much ecological wealth It explains how this concept of ecosystem as natural capital sheds light on a number of important issues including landscape conversion ecological restoration ecosystem resilience and collapse spatial benefits and payments for ecosystem services The book concludes by focusing on major policy challenges that need to be overcome in order to avert the worsening problem of

ecological scarcity and how we can fund novel financing mechanisms for global conservation

**The Environment and Emerging Development Issues** Partha Dasgupta, Karl-Göran Mäler, 2000 Two and a half billion people are affected directly on a day to day basis by the allocation and use of purely local resources Yet official development economics has concentrated on headline international issues and only recently begun to take account of the dependence of poor countries on their natural resources the link between acute poverty and environmental degradation and the problems associated with the management of local common property such as soil and soil cover water forests and their products animals and fisheries In this volume part of the WIDER Program on the Economics of the Environment expert contributors provide a set of authoritative studies of emerging development issues ranging from foundational matters to case studies original research in areas where there has been a paucity of work to survey papers They address both analytic and empirical issues on the role of environmental resources in the development process presenting explanations of existing situations and policies for the future A wealth of interests and backgrounds is represented and reflected in the cross fertilization between papers

**Ecological Economics** Robert Costanza, 1992-07-30 Ecological economics is a new transdisciplinary approach to understanding and managing the ecology and economics of our world for sustainability on local regional and global scales The previous isolation of these two fields has led to economic and environmental policies that have been mutually destructive rather than reinforcing in the long term This book brings together these two disciplines in chapters covering the basic worldview of ecological economics accounting modeling and analysis of ecological economic systems and necessary institutional changes and case studies

**Current Issues in Natural Resource Policy** Paul R. Portney, 2016-03-17 This volume offers an objective view of some of the most critical issues in natural resources Written in nontechnical language it uses ideas drawn from economics to look at the issues examine how government laws and policies have caused some of them arise and to find ways in which problems can be lessened Originally published in 1982 this is a valuable resource for students interested in environmental studies and public policy

**River Ecology and Management** Robert Naiman, Robert E. Bilby, 2001-02-16 As the vast expanses of natural forests and the great populations of salmonids are harvested to support a rapidly expanding human population the need to understand streams as ecological systems and to manage them effectively becomes increasingly urgent The unfortunate legacy of such natural resource exploitation is well documented For several decades the Pacific coastal ecoregion of North America has served as a natural laboratory for scientific and managerial advancements in stream ecology and much has been learned about how to better integrate ecological processes and characteristics with a human dominated environment These in sightful but hard learned ecological and social lessons are the subject of this book Integrating land and rivers as interactive components of ecosystems and watersheds has provided the ecological sciences with important theoretical foundations Even though scientific disciplines have begun to integrate land based processes with streams and rivers the institutions and processes charged with managing these systems have not done so successfully As a result many of

the watersheds of the Pacific coastal ecoregion no longer support natural settings for environmental processes or the valuable natural resources those processes create An important role for scientists educators and decision makers is to make the integration between ecology and consumptive uses more widely understood as well as useful for effective management

*On Borrowed Time?* John E. Tilton, 2003 First Published in 2002 Routledge is an imprint of Taylor Francis an information company *The Economic Theory and Measurement of Environmental Benefits* Per-Olov Johansson, 1987-10-29 A comprehensive survey of developments in the theory of measurement of welfare is applied to issues relevant to environmental economics in this advanced study **Benefits Assessment** J.D. Bentkover, V.T. Covello, J.L.

Mumpower, 2012-12-06 In recent years there has been substantial interest in benefits assessment methods especially as these methods are used to assess health safety and environmental issues At least part of this interest can be traced to Executive Order 12291 issued by President Ronald Reagan in 1981 This Executive Order requires Federal agencies to perform benefits assessments of proposed major regulations and prohibits them from taking regulatory action unless potential benefits exceed potential costs to society Heightened interest in benefits assessment methods has in turn given rise to greater recognition of the inherent difficulties in performing such assessments For example many benefits that are intuitively felt to be most important are also among the most difficult to measure It can be difficult to identify the full range of both benefits and costs The choice of an appropriate discount rate for comparing benefits and costs over time is problematic Even when benefits are quantifiable in principle and agreement can be reached on their valuation required data may not be available Thus considerable uncertainty is built into most benefit estimates even when they are based on the best available data In light of the complexities and difficulties associated with the performance of a benefits assessment this book reviews the current state of theoretical and methodological knowledge in the field The review is extensive in that it covers over fifty years of research theoretical development and practice *The Economic Value of Wilderness*, 1992

Economics of Environmental Conservation Clement Allan Tisdell, 2005-01-01 Tisdell has produced one of the best books in print about the economics of environmental conservation This volume updates the 1991 edition by discussing more current issues theories developments and analytic frameworks Tisdell masterfully weaves into many chapters insights from ecological economics a somewhat new area of economics that cannot be ignored in informed discussions of environmental conservation Tisdell writes clearly and documents each chapter extremely well He presents a quite balanced view on policy issues discussing pros and cons of different policies Overall an extraordinary book Essential Academic collections upper division undergraduate and up D D Miller Choice I like it a lot and would certainly recommend it to students as an excellent entry point into environmental economics It is certainly comprehensive covering international through to local environmental issues developed and developing country experiences across both green and brown topics The book is written in a highly accessible style and embodies a rigorous theoretical base on which is developed a host of practical examples of application

This reflects Tisdell's wide ranging experience as one of the senior statesmen of environmental economics Jeff Bennett The Australian National University A second edition of this book is to be warmly welcomed The insights it offers into the sustainable use of ecological resources especially in developing countries are important for those coming to the study of environmental resource or ecological economics for the first time While the treatment of new topics such as globalization and the Environmental Kuznets Curve adds value to the original text the inclusion of much material from the first edition helps remind us that there is a rich and long standing literature on this topic Charles Perrings University of York UK In the second edition of *Economics of Environmental Conservation* Clem Tisdell applies wisdom experience and carefully developed economic theory to dozens of conservation issues The result is a wide ranging book that skillfully employs ecological economics to analyse conservation issues drawn often from Australia and Asia and relevant in many countries The policy options proposed to the diverse conservation issues reflect a philosophy developed during more than thirty years research The book is a rich source of insight and inspiration for anyone analysing environmental conservation issues Ross Cullen Lincoln University New Zealand Few economists have the breadth of experience and depth of analytical capability to comment with insight on the vast array of issues that now comprise the environmental agenda Clem Tisdell is one of that small band Here is a welcome expansion of his already successful *Economics of Environmental Conservation* Highly recommended David Pearce University College London UK This fully updated and comprehensively revised edition of a classic text concentrates on the economics of conserving the living environment It begins by covering the ethical foundations and basic economic paradigms essential for understanding and assessing ecological economics General strategies for global environmental conservation policies for government intervention developing countries preserving wildlife and biodiversity open access to and common property in natural resources conservation of natural areas forestry agriculture and the environment tourism sustainable development and demographic change are also all covered This second edition deals with contemporary environmental policy issues that can be expected to be of lasting concern and importance each chapter benefiting from either the addition of substantial sections of new material valuable explanations or updates and revisions in light of developments in theory or world events and conditions Updated techniques of economic analysis are also introduced explained simply and a



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