

Benefit Transfer Of Environmental And Resource Values A Guide For Researchers And Practitioners The Economics Of Non Market Goods And Resources

Studienarbeit aus dem Jahr 2013 im Fachbereich VWL - Umweltökonomie, , Veranstaltung: Environmental Economics, Sprache: Deutsch, Abstract: Monetary valuation of environmental goods has by now become the subject of numerous economic books and articles. Interest in the topic seems to be increasing in the economics profession, and theoretical insight, methodological improvements and the numbers of empirical findings are expanding rapidly. The aim of such valuation is usually to incorporate environmental concerns into a cost-benefit analysis. Another purpose is to construct environmentally adjusted national income measures Environmental value estimates have also been combined with macroeconomic models, e.g. to estimate welfare effects of a climate treaty Further, estimated willingness to pay is now accepted in the USA as a basis for legal compensation claims for damages to natural resources caused by spill of hazardous substances (Nyborg, 1996) Valuation can simply be defined "as an attempt to put monetary values or to environmental goods and services or natural resources". It is a key

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exercise in economic analysis and its results provide important information about values of environmental goods and services. This information can be used to influence decisions about wise use and conservation of forests and other ecosystems. The basic aim of valuation is to determine people's preferences by gauging how much they are willing to pay (WTP) for given benefits or certain environmental attributes e.g. keep a forest ecosystem intact. In other words, valuation also tries to gauge how much worse off they would consider themselves to be as a result of changes in the state of the environment such as degradation of a forest. Economic valuation never refers to a stock, but only the change in a stock. If one speaks of the economic value of biodiversity, then one always means the economic value of a change of biodiversity. It is not a question of determining the 'true' value of biodiversity or ecosystems but valuing changes and comparing them with their alternatives, e.g. with a golf course vs without a golf course. Thus it is non-sense to ask "how much are the African National Parks worth?" A plausible question in this case would be: 'WWF has proposed a new policy to prevent the huge losses of wildlife species from African National Parks. What is the monetary value of the benefits of this policy (i.e., the economic damages avoided)? Economists thus stress that the valuation should focus on changes rather than levels of biodiversity or ecosystem. [...]

Over the last decade, economists have increasingly recognized the role of meta-

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analysis and value transfer in synthesizing knowledge and efficiently exploiting the existing pool of knowledge. Comparative Environmental Economic Assessment explores the potential significance of using these techniques, particularly in environmental economics. Both meta-analysis and value transfer constitute major research tools which efficiently use knowledge previously acquired from other studies. The book focuses on the potential role and usefulness of these tools in environmental economic research, and goes on to address their validity, relevance and applicability. A future agenda for research is also illustrated.

An impressive piece of work that deserves to be on every European agricultural economist's bookshelf. Jean-Christophe Bureau, European Review of Agricultural Economics This is an excellent text that could be used in specialist academic courses in environmental and natural resource economics, ecological economics and cost benefit analysis, as well as in interdisciplinary courses in public policy, planning and environmental management. David James, Australasian Journal of Environmental Management Cost Benefit Analysis (CBA) is one of the most useful tools of applied economics for the social appraisal of public projects and government policies. Nick Hanley and Edward Barbier show how CBA can be applied to environmental policy choice and environmental resource management. They cover the conceptual underpinnings of CBA, practical methods for applying CBA, and a wide range of case study applications from Europe, North America and developing countries. Issues such

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as the value of ecosystem services and the special problems posed for CBA by environmental management are brought into close focus. The textbook is aimed at students on inter-disciplinary courses as well as those studying environmental economics, welfare economics and public policy. It will also be of interest to people in the policy community, NGOs and consultancy sectors.

Theory and Methods

Special Issue: Environmental Benefits Transfer

*Measurement and Benefit Transfer of Amenity Values from Afforestation Projects
Project and Policy Appraisal*

Stated Preference Methods and Benefit Transfer

A Theoretical Manual for Environmental Valuation in Sri Lanka

Cost-benefit analysis (CBA) is the systematic and analytical process of comparing benefits and costs in evaluating the desirability of a project or programme, often of a social nature and for society as a whole. CBA is fundamental to government decision-making and can be an effective tool for informed decisions on the use of society's scarce resources. This book highlights the main concepts and principles of cost-benefit analysis used in real life cases and actual applications. The book contains rich cases, materials and examples of real life

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CBA applications with emphasis both on physical and non-physical projects and infrastructure developments in Asia and beyond. The book also discusses techniques frequently used in applied CBA. The first part of the book introduces the key concepts and principles of CBA before Part Two covers some pertinent issues relating to CBA, such as the recent trend of using behavioural economics and frequently used techniques in applied CBA. Finally, in Part Three, case studies are written up to illustrate how CBA is done, and questions for the readers and students to ponder are raised at the end of each chapter. The scope of the case studies is more than just physical infrastructures but will include public sector policies and programmes covering a host of social policies as in health, education, social welfare programmes, and the environment. For each case, there will be illustrations of the key concepts and principles of CBA used. Undertakings analyzed include: the Three Gorges Dam in China the 2008 Beijing Olympics the Costs of Global Warming the Jamuna Bridge in Bangladesh The case studies, many of which have taken or are to take place in developing countries provide a rich background to the principles of the

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method, and are accompanied by a wealth of explanatory material.

As well as being suitable for courses in Cost-Benefit Analysis, Public Finance, Environmental and Health Economics, the book should be of interest to all public policy decision makers and planners.

An in-depth assessment of the most recent conceptual and methodological developments in cost-benefit analysis and the environment.

The book presents a major meta-analysis of 'value of a statistical life' (VSL) estimates derived from surveys where people around the world have been asked about their willingness to pay for small reduction in mortality risks.

Meta Analysis and Benefit Transfer

The Validity and Reliability of Environmental Benefits Transfer

Scaling Up Ecosystem Benefits

Valuing Ecosystem Services

Valuation of Biodiversity Benefits Selected Studies

The Globalization of Cost-Benefit Analysis in Environmental Policy

Nutrient recycling, habitat for plants and animals, flood control, and water supply are among

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the many beneficial services provided by aquatic ecosystems. In making decisions about human activities, such as draining a wetland for a housing development, it is essential to consider both the value of the development and the value of the ecosystem services that could be lost. Despite a growing recognition of the importance of ecosystem services, their value is often overlooked in environmental decision-making. This report identifies methods for assigning economic value to ecosystem services – even intangible ones – and calls for greater collaboration between ecologists and economists in such efforts.

Non-market valuation is becoming increasingly accepted as an evaluative tool of economics related to environmental and resource protection. Freeman (economics, Bowdoin College) presents an overview of the literature, introducing the principal methods and techniques of resource valuation. Chapters cover the measurement of welfare changes, revealed and stated preference models, nonuse models, aggregation of values across time, environmental quality as factor input, longevity and health valuation, property value models, hedonic wage models, and recreational uses of natural resource systems. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

This book explores recent developments in environmental cost-benefit analysis (CBA). This is defined as the application of CBA to projects or policies that have the deliberate aim of environmental improvement or are actions that affect, in some way, the natural environment as an indirect consequence

Cost-Benefit Analysis

Environmental Benefits Transfer

Economic Valuation of Environmental Health Risks to Children

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Cases and Materials

Reliability of Benefit Value Transfers from Contingent Valuation Data with Forest-specific Attributes

A hydro-economic methodology for the food-energy-water nexus

. . . the book provides a wide variety of practical examples of economic assessments of river management projects. . . the book offers policy-makers a nice range of valuation case studies and practical and illustrative guidance on the use of economic valuation results in cost benefit analysis of river management. Marije Schaafsma, Environmental and Resource Economics It is rare to find a book that attempts to integrate physical, biological and social sciences (economics) to address environmental problems, but this book does a great job of it. It is also rare to find a book that addresses both the benefits and the costs of river restoration, and again this book delivers. This collection of case studies provides an informative and practical guide to conducting economic analyses of many different types of river restoration. Scientists interested in quantifying the benefits and costs of river restoration will gain a very quick and thorough education from the case studies presented in this book. John Loomis, Colorado State University, US The book applies benefit cost analysis and a wide array of non-market and distribution economic

valuation methods in ecologic context to determine the pay-off and distribution impacts of various infrastructure and water quality improvements to eight river systems in the Great Lakes region of the US. The generally positive results have important implications for public policy and future research. Prime readership is the wide range of academics, NGO and government agency staff and citizen action groups concerned with the management and protection of rivers and other natural resource systems. This is a practical book with clear descriptions of the most commonly used nonmarket methods. The first chapters of the book provide the context and theoretical foundation of nonmarket valuation along with a discussion of data collection procedures. The middle chapters describe the major stated- and revealed-preference valuation methods. For each method, the steps involved in implementation are laid out and carefully explained with supporting references from the published literature. The final chapters of the book examine the relevance of experimentation to economic valuation, the transfer of existing nonmarket values to new settings, and assessments of the reliability and validity of nonmarket values. The book is relevant to individuals in many professions at all career levels. Professionals in government agencies, attorneys involved with natural resource damage assessments, graduate

students, and others will appreciate the thorough descriptions of how to design, implement, and analyze a nonmarket valuation study.

Growing global water stress caused by the combined effects of growing populations, increasing economic development, and climate change elevates the importance of managing and allocating water resources in ways that are economically efficient and that account for interdependencies between food production, energy generation, and water networks—often referred to as the “food-energy-water (FEW) nexus.” To support these objectives, this report outlines a replicable hydro-economic methodology for assessing the value of water resources in alternative uses across the FEW nexus—including for agriculture, energy production, and human consumption—and maximizing the benefits of these resources through optimization analysis. The report’s goal is to define the core elements of an integrated systems-based modeling approach that is generalizable, flexible, and geographically portable for a range of FEW nexus applications. The report includes a detailed conceptual framework for assessing the economic value of water across the FEW nexus and a modeling framework that explicitly represents the connections and feedbacks between hydrologic systems (e.g., river and stream networks) and economic systems (e.g., food and energy production). The modeling

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components are described with examples from existing studies and applications. The report concludes with a discussion of current limitations and potential extensions of the hydro-economic methodology.

Economic Valuation of River Systems

The Economic Value of Natural and Environmental Resource

Comparative Environmental Economic Assessment

Economic Approaches to Environmental Valuation

Benefit Transfer of Environmental and Resource Values

How Reliable are Meta-Analyses for International Benefit Transfers?

This volume offers a snapshot of the research that is ongoing in the area of value transfer. It provides relevant input for increasing the quality of cost-benefit analyses of projects with environmental and health impacts. The volume includes papers by some of the most influential authors in the area and covers the latest developments in the field.

"This manual provides guidance on how to estimate the economic value of ecosystem services using value transfer methods. It explains why you would undertake a study, who should be involved, how to implement the study and how to use the results. The development of

this guidance manual was funded by the United Nations Environment Programme."--Back cover.

This policy briefing series communicates the findings from nine workshops and three plenary meetings under the EVE programme. These showed the diversity of research currently being undertaken in the area of environmental values and their policy expression. The type of information relevant to the decision process extends from ecological functioning to moral values.

A Guide for Researchers and Practitioners

Selected Studies

Benefits Transfer of Children's Health Values

Mortality Risk Valuation in Environment, Health and Transport Policies

A Preference Calibration Approach

The Role of Benefit Transfer in Environmental Damage Assessment

These case studies cover the state of the art on economic valuation and on the interface between economic and ecological valuation.

How the valuation of environmental goods is related to income is a key question for economics, but the role of income inequality is often neglected. We study how income inequality affects the international transfer of the estimated value of

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environmental goods from a study to a policy site - a practice called value or benefit transfer. Specifically, we apply theory-driven, structural transfer factors to examine whether adjusting for income inequality affects errors made in benefit transfer, drawing on a multi-country valuation study on water quality improvement. Our convergent validity analysis shows that the structural income inequality adjustment reduces benefit transfer errors by more than 1.5 percentage points on average across all transfers. The adjustment for inequality is particularly important when income is distributed more unequally at the policy site relative to the study site, yielding reductions in transfer errors of up to 33 percentage points. Our results highlight the importance of taking the effects of economic inequality into account and are relevant for environmental valuation as well as public policy appraisal.

Diploma Thesis from the year 2010 in the subject Economy - Environment economics, grade: 1,5, University of Bayreuth (Helmholtz Center for Environmental Research), language: English, abstract: This thesis investigates the potential and limitation of benefit transfer application for the economic valuation of non-marketed forest benefits in Saxony. This time- and cost saving valuation technique can support political and business decisions by transferring monetary costs and benefits from environmental changes from a studied to an unstudied site. As benefit transfer is currently not applied in Saxony, the question becomes how far it can contribute to a better-informed regional decision procedure. To elicit the methodological

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experiences of this application field, a literature review investigates the technical state of the art. From a methodological perspective, research and application manages spatial, temporal, and ecological site differences and accuracy tests very heterogeneously. The majority refines function transfer with varying models methodologically, drawing on primary valuation studies on forest recreation. A minor fraction concentrates on applications with simplistic unit transfer are of a likewise technically inconsistent manner. Absence of homogeneous ethodological performance and experiences suggest an application of unit transfer for Saxony following a guideline by Navrud (2010). In a compact manner it guides a benefit transfer application on forest benefits. A transfer of a WTP for forest biodiversity demonstrates income-adjusted unit transfer to be principally possible for contexts requiring knowledge gains. However, under current conditions it faces distinct limitations. Valuation is restricted to a small empirical pool on non-marketed forest benefits in such a way that most indirect use and non-use values remain unapproachable. Therefore, further primary valuation studies are fruitful additions to enlarge the number of appraisable benefits. If thorough benefit transfers are pursued in Saxony, incomeadjusted unit transfer is recommended according to Navrud's (2010) guideline to enable a methodological homogeneous and well-reported valuation. Further, the literature should be collected from databases with empirical studies satisfying the criteria of site similarity. Facilitating a regular

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prospective application in Saxony, interest and demand needs to be raised to create a legal framework for the internalization of non-marketed forest benefits in political and business decisions.

*Environmental Benefits Transfer: Methods, Applications and New Directions
Benefits Transfer S.I.*

Cost-Benefit Analysis and the Environment Recent Developments

The Measurement of Environmental and Resource Values

Potential and Limitations of Benefit Transfer

Income Inequality and the International Transfer of Environmental Values

Valuation Methods and Policy Instruments

The present report analyses options for scaling up existing estimates of ecosystem service values to larger geographical scales. It also presents a case study of wetlands at the European level and discusses the results and policy applications.

The relationship between environment and children's health has been the subject of increasing interest these last ten years. For instance, many OECD Member countries are reporting asthma epidemics exacerbated by air pollution: in

the United States nearly 1 in 13 school-age children (approximately 4.8 million) has asthma, and the rate is increasing more rapidly in school-age children than in any other group. The importance of this issue has resulted in a growing number of epidemiological studies aiming at better understanding and better characterising the relationship between environmental pollution and the health of children. However, in many respects, the valuation of children's health strongly differs from the valuation of adults' health and constitutes a real challenge for analysts as well as for decision-makers. Consequently, this book proposes an in depth analysis of the main methodological difficulties associated with estimating the social value of a reduction in risk to children. Questions such as how to elicit children's preferences, what valuation methodology and benefit measure to choose, how to discount benefits to children's health, and how to account for economic uncertainties in this specific context of economic valuation will be systematically examined in order to

define key policy implications and to pave the way for further research.

Meta-analysis has increasingly been used to synthesise the environmental valuation literature, but only a few test the use of these analyses for benefit transfer. These are typically based on national studies only. However, meta-analyses of valuation studies across countries are a potentially powerful tool for benefit transfer, especially for environmental goods where the domestic literature is scarce. We test the reliability of such international meta-analytic transfers, and find that even under conditions of homogeneity in valuation methods, cultural and institutional conditions across countries, and a meta-analysis with large explanatory power, the transfer errors could still be large. Further, international meta-analytic transfers do not on average perform better than simple value transfers averaging over domestic studies. Thus, we question whether the use of meta-analysis for practical benefit transfer achieves reliability gains justifying the

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increased effort. However, more meta-analytic benefit transfer tests should be performed for other environmental goods and other countries before discarding international meta-analysis as a tool for benefit transfer.

Cost-Benefit Analysis and the Environment Further Developments and Policy Use

Methods, Applications and New Directions

Toward Better Environmental Decision-Making

Guidance Manual on Value Transfer Methods for Ecosystem Services

Integrating Economics and Environment

Environmental Value Transfer: Issues and Methods

This book argues in favor of using cost-benefit analysis globally and examines the positive impact it can have in developing countries using relevant case studies. The book discusses the potential for cost-benefit analysis to provoke a global shift toward stronger and more effective economic policies.

Benefit Transfer of Environmental and Resource Values A Guide for Researchers and Practitioners Springer

Benefit transfer is the practice of estimating economic values at a target site by utilizing the

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results of existing studies for different sites. This text assesses the validity of benefit transfer using choice modeling in contrast to the traditional focus of transferring results from contingent valuation and travel cost models.

Cost-benefit Analysis and Environmental Policy

Choice Modelling and the Transfer of Environmental Values

Benefit Transfer Functions for Avoided Morbidity

A Primer on Nonmarket Valuation

Environmental Economics for Integrated Coastal Area Management

Methodological Issues in Meta-analysis, Benefit Transfer and Environmental Valuation

This book provides a comprehensive review of environmental benefit transfer methods, issues and challenges, covering topics relevant to researchers and practitioners. Early chapters provide accessible introductory materials suitable for non-economists. These chapters also detail how benefit transfer is used within the policy process. Later chapters cover more advanced topics suited to valuation researchers, graduate students and those with similar knowledge of economic and statistical theory and methods. This book provides the most complete coverage of environmental benefit transfer methods available in a single location. The book targets a wide audience, including undergraduate and graduate students, practitioners in economics and other disciplines looking for a one-stop handbook covering benefit transfer topics and those who wish to apply or evaluate benefit transfer methods. It is designed for those both with and without training in economics

Value Transfer and Environmental Policy

Pricing Nature

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Goods And Resources**

A Spatial Economic Valuation Approach Using GIS Technology

The Economic Valuation of Non-Marketed Forest Benefits in Saxony

Recent Developments