

# Nature's Numbers



Expanding the National Economic  
Accounts to Include the  
Environment

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# Natures Numbers Expanding The National Economic Accounts To Include The Environment

**Paul E. Hardisty**



## **Natures Numbers Expanding The National Economic Accounts To Include The Environment:**

**Nature's Numbers** National Research Council, Division of Behavioral and Social Sciences and Education, Commission on Behavioral and Social Sciences and Education, Panel on Integrated Environmental and Economic Accounting, 1999-06-28 In order to really see the forest what s the best way to count the trees Understanding how the economy interacts with the environment has important implications for policy regulatory and business decisions How should our national economic accounts recognize the increasing interest in and importance of the environment Nature s Numbers responds to concerns about how the United States should make these measurements The book recommends how to incorporate environmental and other non market measures into the nation s income and product accounts The panel explores alternative approaches to environmental accounting including those used in other countries and addresses thorny issues such as how to measure the stocks of natural resources and how to value non market activities and assets Specific applications to subsoil minerals forests and clean air show how the general principles can be applied The analysis and insights provided in this book will be of interest to economists policymakers environmental advocates economics faculty businesses based on natural resources and managers concerned with the role of the environment in our economic affairs *Nature's Numbers* National Research

Council, Division of Behavioral and Social Sciences and Education, Commission on Behavioral and Social Sciences and Education, Panel on Integrated Environmental and Economic Accounting, 1999-07-28 In order to really see the forest what s the best way to count the trees Understanding how the economy interacts with the environment has important implications for policy regulatory and business decisions How should our national economic accounts recognize the increasing interest in and importance of the environment Nature s Numbers responds to concerns about how the United States should make these measurements The book recommends how to incorporate environmental and other non market measures into the nation s income and product accounts The panel explores alternative approaches to environmental accounting including those used in other countries and addresses thorny issues such as how to measure the stocks of natural resources and how to value non market activities and assets Specific applications to subsoil minerals forests and clean air show how the general principles can be applied The analysis and insights provided in this book will be of interest to economists policymakers environmental advocates economics faculty businesses based on natural resources and managers concerned with the role of the environment in our economic affairs

**Environmental and Economic Sustainability** Paul E. Hardisty, 2010-06-21 Never before has the quest to balance the needs of people the environment and the economy been so important While sustainability has been widely taken up by governments and business the world has continued to move in increasingly unsustainable directions from continued dependence on fossil energy to rising greenhouse gas emissions and erosion **Measuring Sustainable Development Integrated Economic, Environmental and Social Frameworks** OECD, 2004-07-07 The papers in this conference proceedings address the various conceptual measurement and statistical policy issues that arise

when applying accounting frameworks to the concept of sustainable development

## **Macroeconomics and the**

**Environment** Salah El Serafy, 2013-01-01 This is an important book. It not only serves as a valuable contribution to green accounting; it is a testament to Salah El Serafy's tireless efforts to reform the national income accounts in ways that would better reveal the sustainable product of nations and the value of development policies. No matter what differences the reader may have with some of the points made, there is no denying that the world would be a much improved place if the reforms suggested by El Serafy were implemented. Philip Lawn, Flinders University, Australia. This book is a fabulous summary of Salah El Serafy's seminal contributions to greening national income accounts. If only we had employed the famous El Serafy method of investing depletion of non-renewable resources into renewable alternatives, the world would be in a much stronger and more sustainable place today. Hopefully, it is not too late to take up this and El Serafy's many other recommendations for improving national income accounting. Robert Costanza, Portland State University, US. Though scientists and environmentalists have long expressed concern over the rapid deterioration of the global environment, economists have largely failed to recognize the issue's relevance to their field. Salah El Serafy argues for an increased focus on the economic aspects of environmental degradation, calling for a fundamental shift in how economists measure and discuss national income. Through a combination of new material reflecting recent developments in the field and previously published essays that provide a history of green accounting, the author emphasizes the importance of considering natural resources as part of a nation's economic capital. Setting forth what has become known as the El Serafy Method, this fascinating and complex volume presents both the justification and the methodology for giving the environment a place in the global economic conversation. Students, professors, researchers, and policymakers in the field of environmental and ecological economics will no doubt find much to appreciate in this thoughtful and comprehensive analysis of the intersection between economics and the environment.

*Environmental and Natural Resources Economics* Steven Hackett, Sahan T. M. Dissanayake, 2019-07-23 This new edition of *Environmental and Natural Resources Economics* provides an accessible yet rigorous treatment of the subject, including the economics of sustainability. The new edition has been updated extensively throughout. A new chapter has been added on fisheries economics and policy, and the chapter on global climate change has been substantially rewritten to incorporate new scientific information and evolving public policy. Many new figures and tables have been added, and the glossary has also been expanded. Readers will appreciate the balanced and accessible coverage and the integration of economics with science and public policy.

Environmental indicators: better coordination is needed to develop environmental indicator sets that inform decisions: report to congressional requesters., *Economics Of Environment, Climate Change, And Wine: Selected Papers Of Robert N Stavins, Volume 3 (2011-2023)* Robert N Stavins, 2025-04-29 Robert N Stavins has been one of the most influential voices in environmental economics and policy over the past three decades. Written by Stavins and his co-authors, the selected articles and essays in this book were originally published in a diverse set

of leading scholarly periodicals They are collected here for the first time The book begins with an introductory essay where Stavins reflects on the professional path leading to his research and writing identifying common themes that emerged from his research This book discusses environmental policy in detail unpacking policy instruments and scrutinizing both domestic and international policy Policies are examined in relation to The Paris Agreement It concludes with a section on wine production and consumption This is the third volume of Stavins selected papers following Volume 1 1988 1999 and Volume 2 2000 2011 Students scholars practitioners and policymakers will find this volume a very valuable and useful addition to their collection *Markets and the Environment, Second Edition* Nathaniel O. Keohane, Sheila M. Olmstead, 2016-01-05 A clear grasp of economics is essential to understanding why environmental problems arise and how we can address them Now thoroughly revised with updated information on current environmental policy and real world examples of market based instruments The authors provide a concise yet thorough introduction to the economic theory of environmental policy and natural resource management They begin with an overview of environmental economics before exploring topics including cost benefit analysis market failures and successes and economic growth and sustainability Readers of the first edition will notice new analysis of cost estimation as well as specific market instruments including municipal water pricing and waste disposal Particular attention is paid to behavioral economics and cap and trade programs for carbon Publisher's web site

**The Spirit of Green** William D. Nordhaus, 2021-05-18 From a Nobel Prize winning pioneer in environmental economics an innovative account of how and why green thinking could cure many of the world's most serious problems from global warming to pandemics Solving the world's biggest problems from climate catastrophe and pandemics to wildfires and corporate malfeasance requires more than anything else coming up with new ways to manage the powerful interactions that surround us For carbon emissions and other environmental damage this means ensuring that those responsible pay their full costs rather than continuing to pass them along to others including future generations In *The Spirit of Green* Nobel Prize winning economist William Nordhaus describes a new way of green thinking that would help us overcome our biggest challenges without sacrificing economic prosperity in large part by accounting for the spillover costs of economic collisions In a discussion that ranges from the history of the environmental movement to the Green New Deal Nordhaus explains how the spirit of green thinking provides a compelling and hopeful new perspective on modern life At the heart of green thinking is a recognition that the globalized world is shaped not by isolated individuals but rather by innumerable interactions inside and outside the economy He shows how rethinking economic efficiency sustainability politics profits taxes individual ethics corporate social responsibility finance and more would improve the effectiveness and equity of our society And he offers specific solutions on how to price carbon how to pursue low carbon technologies how to design an efficient tax system and how to foster international cooperation through climate clubs The result is a groundbreaking new vision of how we can have our environment and our economy too *Sustainable Development Indicators in Ecological Economics* Philip A.

Lawn,2006-01-01 The book covers a wide range of concepts pertaining to the sustainable development and successfully captures the inter connectivity of environmental preservation and sustainable development International Journal of Ecological Economics and Statistics this book is authoritative objective and essential reading for academics and policymakers concerned with the application of indicators of sustainable development It takes great care to emphasize what has worked what has not and what should be our future priorities for research the combination of these features certainly sets it apart from some other texts in the field Lee M Stapleton Journal of Environmental Planning and Management This book presents a comprehensive collection of essays from some of the world s leading experts surveying and highlighting both the potential and the limitations of a number of indicators specifically designed to measure sustainable development Illustrative applications are presented throughout in order to demonstrate the value of the approaches discussed This book is highly recommended for all those who are interested in a better understanding of what sustainable development is and its likely associated indicators and ultimately aims to contribute to a better foundation for public decision making Paulo A L D Nunes Venice International University C Foscari University Fondazione Eni Enrico Mattei Venice Italy and Vrije Universiteit Amsterdam The Netherlands Since the late 1980s and early 1990s national governments have introduced a range of policy measures designed to steer their economies along a more sustainable path Yet how are we to know how successful these have been This significant new book discusses the ways in which sustainable development indicators can be improved in order to both assess the impact of past policies and avoid the repetition of previous failings Covering a broad range of indicators relating to national accounts aggregate welfare natural capital ecosystem health and human environment interactions this volume provides an important assessment of the strengths and weaknesses of each With contributions from some of the most eminent scholars in the field the book competently analyses the various methods of measuring the sustainable development performance of nations and suggests many ways in which these can be developed and improved While the contributors might offer conflicting views the message they convey is universal the quest for appropriate sustainable development indicators is critically important if we are ever to bring about a fairer sustainable and more efficient world

*Beyond GDP* Matthew Kuperus Heun,Michael Carbajales-Dale,Becky Roselius Haney,2015-05-11 This book uses the metaphor The economy is society s metabolism as a springboard to develop a rigorous theoretical framework for a better system of national accounts which goes Beyond GDP and is relevant to the age of resource depletion Society is entering a new era in which biophysical limits related to natural resource extraction rates and the biosphere s waste assimilation capacity are becoming binding constraints on mature economies Unfortunately the data needed for policy makers to understand and manage economic growth in this new era are not universally available All stakeholders need a new way to understand our economy in the context of the biosphere s ability to provide essential natural capital and we suggest that detailed information about materials energy embodied energy and energy intensity should be routinely gathered analyzed

and disseminated from a centralized location to provide markets and policymakers with a more comprehensive understanding of the biophysical economy. However, a firm theoretical foundation is needed before proceeding along this new path which this book is intended to provide. After arguing that the stock of manufactured capital is an important driver of material and energy demands imposed upon the biosphere, a new accounting framework is derived from the laws of thermodynamics to reflect the fact that material and embodied energy accumulate within the capital stock of economic sectors. This framework extends the Energy Input Output (EIO) techniques first developed by Bullard, Herendeen, and others to estimate energy intensity of economic products. Implications from the new framework are discussed, including the value of economic metrics for policy making, the need for physically based rather than product based EIO formulations, a re-assessment of the concept of economic growth, and an evaluation of recycling, reuse, and dematerialization. The framework also provides an opportunity to assess an array of definitions for Daly's steady state economy in relation to the ideal of a sustainable economy. The book ends with a list of steps to be taken in creating a more comprehensive system of national accounts. National accounting agencies worldwide should develop and maintain balance sheets of both natural and manufactured capital in addition to national income statements. All stocks and inter sector flows should be provided in physical as well as financial units. In the US, the Bureau for Economic Analysis (BEA) should restart detailed Capital, Labor, Energy, Material, and Services (KLEMS) reporting. National accounting agencies should routinely estimate the energy intensity of economic products, and all of the above should be estimated and disseminated on an annual basis.

**The Global Economics of Forestry** William F. Hyde, 2012-05-23 This book traces the economic and biological pattern of forest development from initial settlement and harvest activity at the natural forest frontier to modern industrial forest plantations. It builds from diagrams describing three discrete stages of forest development and then discusses the management and policy implications associated with each, supporting its observations with examples and data from six continents and from both developed and developing countries. It shows that characteristic distinctions between the three stages make forestry unusual in natural resource management and that effective policy requires different even contrasting decisions at each stage. William F. Hyde's comprehensive discussion covers a wide range of issues, including the impacts of both specific forest policies and broader macroeconomic policies, the unique requirements of current issues such as global warming, biodiversity, and tourism, and the complexities of the different forest products industries. Concluding chapters review the roles of the newer institutional landowners of smaller private and farm landowners and of public agencies. This highly original volume reaches far beyond forest economics; it explains what forestry can do for regional development and environmental conservation, and what policies designed for other sectors and the macro economy can do for forestry.

*Economy—Energy—Environment Simulation* K. Uno, 2005-12-08 In the policy arena as well as in the academic world, a new challenge is having to deal with the global community. We are increasingly aware that the world is linked through

economy energy environment interactions We are increasingly aware at the same time that the emergence of the global community does not imply an integrated harmonious world rather it is a community where co tries regions of different interests and values face each other directly Global governance has to be achieved through actions of national governments under different motives and constraints We need to have an analytical tool that is capable of producing a global picture yet with detailed country resolution If the world is a better place now compared to 100 years ago in terms of p capita income this is due to the industrialization that continued throughout the 20th century We entered the 21st century knowing that the human aspiration that translates into ever increasing production may not be tenable in the long run Sustainability of the global community is at stake In contrast to inc mental decision making through the market mechanism that should lead to some optimal state under some assumptions such as perfect knowledge smooth movement of resources no externalities and so forth we need to have an a lytical tool to provide us with details of the future state of the world

Intermediate Environmental Economics Charles D. Kolstad,2011 Intermediate Environmental Economics has established itself as one of the field s most authoritative texts as well as one of the more challenging It distinguishes itself from other books by presupposing that readers already have an understanding of intermediate microeconomics Thus this book concentrates only on environmental economics problems of pollution of earth air and water with an emphasis on regulation and private sector anti pollution incentives and coverage of international examples

The Measurement of Environmental and Resource Values A. Myrick Freeman III,Joseph A. Herriges,Catherine L. Kling,2014-06-05 The first edition of this important work was the winner of the 2002 Publication of Enduring Quality award by the Association of Environmental and Resource Economists The continuing premise for the book is that estimates of the economic values of environmental and natural resource services are essential for effective policy making As previous editions the third edition which includes two additional co authors presents a comprehensive treatment of the theory and methods involved in estimating environmental benefits Researchers policy makers and practitioners will welcome the work as an up to date reference on recent developments Students will gain a better understanding of the contribution that economics as a discipline can make to decisions concerning pollution control and human health recreation environmental amenities and other critical issues concerning the way we use and interact with environmental and natural resource systems To reflect recent progress in both the theory and practice of non market valuation the third edition includes more details on empirical approaches to measurement expanded discussion of the reasons for divergence between willingness to pay and willingness to accept compensation and increased coverage of econometric issues encountered in estimation In keeping with its cutting edge orientation it also includes more discussion of survey design equilibrium sorting models and the implications of behavioral economics for welfare measurements and benefit cost analysis

**The Carbon Charter** Godo Stoyke,2009-05-01 As mayors and city councilors seek solutions to climate change existing policies and legislation can stand in the way of effective change The Carbon Charter is the first book to



describe the municipal bylaws required to abate climate change and create sustainable communities It provides city councilors with a cut and paste set of green bylaws and policies of best practices culled from environmentally advanced communities around the world They can be taken straight out of the book placed into a council agenda with minimum modification and voted on The Carbon Charter provides city councilors with the ammunition they need to implement and accelerate sustainability initiatives quickly The book describes bylaws that are applicable throughout the world with the emphasis on examples that are beneficial to temperate climates such as the U S and Canada It also proposes innovative new bylaws that are found nowhere else This highly accessible comprehensive handbook includes Sample bylaws case studies and background material and references Numbered QuickLinks that allow readers access to full bylaw texts and links Special icons that pinpoint target audiences with bylaws relevant to each audience This book will appeal to city councilors and mayors municipal planners architects and engineers world wide

### **Valuation of Regulating Services of Ecosystems**

Pushpam Kumar, Michael Wood, 2010-07-13 Policy and management decisions are often made on financial grounds However the economic value of the benefits that people derive from ecosystems that is ecosystem services may not be fully recognised and hence ecosystem considerations may not be incorporated adequately into decision making processes This is particularly true for regulating services the benefits obtained from the regulation of ecosystem processes the valuation of which requires an interdisciplinary approach In essence valuation is a problem solving strategy and a problem is a problem it does not respect the boundary of any particular discipline The valuation of regulating services is an evolving field of ecological economics In this book Professor Pushpam Kumar and Professor Michael D Wood have invited some of the foremost international experts in the field of ecosystem services valuation to contribute chapters on the valuation of regulating services and highlight some of the main obstacles to the implementation and acceptance of these methodologies in the context of decision making The contributors explore the theoretical underpinning of valuation of ecosystem services and demonstrate ways in which these theories can be applied to case specific problems in order to inform decision making processes This collection clarifies some of the doubt and uncertainty regarding the valuation of regulating services Innovative methodologies in this field have started to emerge and in coming years there may be much further discussion on this topic as methodologies and understanding continue to evolve This is a highly active area of interdisciplinary research with far reaching social and environmental implications and this book should be of interest to those who are new to the field as well as established experts in moving both theory and practice forward

### **The Oxford Handbook of Productivity**

**Analysis** Emili Grifell-Tatjé, C.A. Knox Lovell, Robin C. Sickles, 2018-08-07 Productivity underpins business success and national well being and thus it is crucial to understand the factors that influence productivity growth This volume provides a comprehensive exploration into the significance of productivity growth for business the economy and for social economic progress It examines how productivity is defined measured and implemented It also surveys the dispersion of productivity

across time and place focusing on the productivity dynamics that either leads to a reallocation of resources that reduces dispersion and increases aggregate productivity or conversely allows dispersion to persist behind barriers to productivity enhancing reallocation A third focus is an investigation of the drivers of or impediments to productivity growth some of which are organizational in nature and under management control and others of which are institutional in nature and subject to public policy intervention The Oxford Handbook of Productivity Analysis contains contributions of distinguished productivity experts from around the world who analyze a wide range of timely issues These issues concern purely analytical topics surrounding the measurement of productivity in various situations beginning with the ideal situation in which all inputs and all outputs and their prices are observed accurately They also include service sectors such as education in which the services provided are hard to define much less measure and other sectors that generate undesirable environmental externalities that are difficult to price and complicate the very definition of productivity The issues also involve business management topics ranging from the role of business models and benchmarking to the quality of management practices the adoption of new technologies and possible complementarities between the two The relationship between productivity and business performance is also explored At a more aggregate level the issues range from the impacts of market power incentive regulation international trade and global value chains on productivity to the contribution of productivity to economic development and economic welfare

Environmental and Natural Resources Economics Steven C. Hackett, 2010-12-23

Extensively revised and updated this popular text presents an accessible yet rigorous treatment of environmental and natural resources economics including climate change and the economics of sustainability Completely revised and updated the fourth edition now includes new figures and tables definitions to assist the reader and updated policy information New advances in the science economics and policy approaches to climate change have been integrated into essentially all new chapters on incentive regulation and global climate change This innovative textbook integrates economics with science and public policy in a balanced and accessible way that will be appreciated by students from disciplines ranging from economics and natural resources management to environmental studies and energy policy

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## **Table of Contents Natures Numbers Expanding The National Economic Accounts To Include The Environment**

1. Understanding the eBook Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - The Rise of Digital Reading Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Advantages of eBooks Over Traditional Books
2. Identifying Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - User-Friendly Interface

4. Exploring eBook Recommendations from Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Personalized Recommendations
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment User Reviews and Ratings
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment and Bestseller Lists
5. Accessing Natures Numbers Expanding The National Economic Accounts To Include The Environment Free and Paid eBooks
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment Public Domain eBooks
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment eBook Subscription Services
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment Budget-Friendly Options
6. Navigating Natures Numbers Expanding The National Economic Accounts To Include The Environment eBook Formats
  - ePub, PDF, MOBI, and More
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment Compatibility with Devices
  - Natures Numbers Expanding The National Economic Accounts To Include The Environment Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Highlighting and Note-Taking Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Interactive Elements Natures Numbers Expanding The National Economic Accounts To Include The Environment
8. Staying Engaged with Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Natures Numbers Expanding The National Economic Accounts To Include The Environment

### Environment

9. Balancing eBooks and Physical Books Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Natures Numbers Expanding The National Economic Accounts To Include The Environment
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Setting Reading Goals Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Fact-Checking eBook Content of Natures Numbers Expanding The National Economic Accounts To Include The Environment
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### Natures Numbers Expanding The National Economic Accounts To Include The Environment Introduction

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