

A Return to Unified River Basin Planning and Management.
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I. Introduction.

This paper presents the history and importance of the river basin as the natural unit for river administration and why it is increasingly important for water administration to get back to the river basin framework. Since there is a long history of dividing the river basin into jurisdictions that often have little to do with water, recommendations are made for moving back to the unified basin in ways that recognize the legitimate objectives of these jurisdictions. Under increasing demands and possible climate change, there will be increasing need for greater flexibility in water re-allocation. Water markets promise to provide this flexibility and, on broader geographical scales, to take planning and management back to the river basin level.

II. History of the River Basin as a Planning & Management Unit.¹

There is a long history of recognition of the river basin as the natural unit for river development, planning and management. However, globally there has been a long history of breaking up river basins among many jurisdictions, many having nothing to do with water. At present, because of the failure to focus development, planning and management on the entire river basin, unplanned detrimental impacts (negative externalities) will increasingly appear. The question is "What politically feasible steps can be taken to move planning and management back to the river basin"?

Over past millennia, the river basin has been used as the entity for river planning and management. The origins of irrigation development in the Tigris and Euphrates Valleys go back to 6000 B.C and involved interdependent diversions from both rivers (Christensen 1993; Postel 1999). China's attempts to control the Yellow River go back to 4000 B.C. The Indus Basin was settled and managed by 2300 B.C. (Postel 1999), while the ingenious Dujianyang irrigation and flood control project on the Min River in Szechwan Province of China was designed and built around 1600 B.C. by the still revered engineer, Li Bao (Van Slyke 1988).

In the mid-nineteenth century, the faculty of the Ecole National de Ponts et Chaussées (ENPC) in Paris was one of the most prominent promoters of the river basin approach. The "Agences de Basin" proposed by ENPC still constitute the river planning and management agencies of France (Ekrlund and Hebert 1973). In the U.S., the Inland Waterway Commission appointed by President Theodore Roosevelt in 1907 during the early era of "scientific management and the gospel of efficiency" of natural resources (Hays 1958) strongly promoted centralized control of the major rivers and multi-purpose river development.

During the depression of the 1930's, the federal government of the U.S. developed the Tennessee Valley Project- the U.S.'only attempt at basin-wide comprehensive development. (Trelease 1971). The 1965 federal Water Resources Planning Act created the Water Resources Council to coordinate federal water development and management activities (Rogers 1993) and

¹ This section draws on Howe's work as partially reported in Howe, 2005.

Natural Resource Economics Issues Analysis And Policy

John C. Bergstrom, Alan Randall



Natural Resource Economics Issues Analysis And Policy:

Natural Resource Economics Issues, Analysis, and Policy Charles W. Howe, 1979-05-04 A unified exposition of the principles of optimum use of renewable and nonrenewable natural resources set in the framework of historical natural resource concerns and real world resource markets Utilizes most up to date theoretical and empirical research results from economics geology hydrology and the environmental sciences Characterizes the role of natural resources in long term economic growth describes and analyzes problems and policy issues of energy nonenergy minerals forestry fisheries water resources and preserved natural environments Reviews factors critical to the future and seeks to derive a responsible natural resources policy that emphasizes intergenerational equity Includes several extended case studies *Natural Resource Economics* Daniel W. Bromley, 2012-12-06 When approached by Warren Samuels the series editor about organizing a volume on natural resource economics I was at a loss as to how one might possibly capture in several major essays plus several shorter comments thereon all of the diverse activities that fall within this exciting discipline I was further asked to have the book take an affirmative but constructively critical look at its subject The volume was to be interpretative it was to be reasonably comprehensive and yet it was to attempt to present divergent views on the development tensions present status and especially possible lines of development of each field Upon reflection I decided to have the book focus on natural resource economics as a distinctly applied policy science Hence the title *Natural Resource Economics Policy Problems and Contemporary Analysis* While this allowed clarification of a particular sort it did little to narrow the range of policy issues that ought to be considered candidates for inclusion But it did seem after some thought that three broad issues persist at center stage in natural resource policy Natural Resource Economics Charles W. Howe, 1974 **Natural Resource And Environmental Policy Analysis** George M Johnston, 2021-11-28 As natural resources have become scarcer issues of environmental policy have become more vital and subject to debate in global as well as local arenas Through the use of case studies especially developed for this book the authors analyze the wide range of institutional contexts in which natural resource and environmental policy issues arise and the processes by which they are resolved The first chapter provides a theoretical framework of key resource and environmental economics concepts an overview that gradually broadens as the student is exposed to alternative methods of analysis including market oriented analysis institutional analysis and modeling The case studies all begin with discussions of the pertinent biological physical social and institutional issues before economic analysis is applied and policy conclusions are drawn Suggested readings and study questions follow each chapter This book is designed for use in upper level college courses in natural resource and environmental economics and graduate courses in resource management It can be used either as a primary text in conjunction with theoretical readings or as a supplemental source of case study readings The cases will also be valuable for natural resource environmental and community development economists **Resource Economics** John C. Bergstrom, Alan Randall, 2016-06-24 *Resource Economics*

engages students and practitioners in natural resource and environmental issues from both local and global standpoints The fourth edition of this approachable but rigorous text provides a new focus on risk and uncertainty as well as new applications that address the effect of new energy technologies on scarcity and climate change mitigation and adaptation while preserving and systematically updating the approach and key features that drew many thousands of readers to the first three editions

Natural Resource Economics S. V. Ciriacy-Wantrup, 2019-04-09 This volume was assembled by two of Dr Wantrup's students as a complement to his textbook *Resource Conservation Economics and Policies* Wantrup's ideas on conservation economics continued to evolve in ways that were never fully reflected in that text and although for the student of natural resource economics it is still essential reading to st

Handbook of Environmental and Resource Economics Jeroen C. J. M. Van den Bergh, 2002-01-01 This major reference book comprises specially commissioned surveys in environmental and resource economics written by an international team of experts Authoritative yet accessible each entry provides a state of the art summary of key areas that will be invaluable to researchers practitioners and advanced students

Economics of Natural Resources and the Environment Erhun Kula, 1992-02-01 Looks in detail at the history of economic thought on natural resources and the environment the economics of fisheries forestry mining petroleum coal and natural gas deposits There are also chapters devoted to environmental degradation and the economics of the world's natural wonders

Natural Resource Economics Barry C. Field, 2023-07-21 The connection between humans and the earth's natural resources is a topic of vital interest Concern once centered on whether there were sufficient supplies of natural resources to accommodate the rising demands of growing economies a newer concern is whether those growing economies will undermine the linkages between humans and the earth's critical ecological endowments It is essential to understand the reciprocity of how human decisions affect resources and how resources affect humans Natural resource economics is one way of framing and analyzing choices about the conservation and use of natural resources made daily by individuals communities and nations The focus of the text is on natural resource valuation economic incentives and the institutional arrangements that will produce desired collective outcomes The fourth edition of this acclaimed text presents the analytical framework of economics in easy to understand descriptions for readers who have not yet been exposed to economics The first nine chapters offer a lucid introduction to fundamental economic principles and their application to questions about natural resource use Ten topical chapters address specific natural resources The final two chapters examine natural resource issues encountered in developing countries and the impacts of globalization on the utilization and conservation of natural resources Topics new to this edition include equity issues in natural resources decisions existence value of wildlife technological change natural capital payment for environmental services rare earths food security and collective property rights

Economics of Natural Resources, the Environment and Policies E. Kula, 2012-12-06 The economic activities of humanity particularly during the last couple of centuries have had a profound impact on the natural environment Fast

depletion of the world's forest resources, fish stocks, fossil fuels, and mine deposits have raised many moral as well as practical questions concerning present and future generations. Furthermore, a number of global environmental problems such as acid rain, the greenhouse effect, and depletion of the ozone layer are causing concern throughout the world. What does economics say about the exploitation of nature's scarce resources? This book, which is a much expanded version of an earlier publication, *Economics of Natural Resources and the Environment*, aims mostly at final year undergraduates reading subjects such as economics, business studies, environmental science, forestry, marine biology, agriculture, and development studies. There is also a good deal of material, especially in the chapters on fisheries, forestry, valuation, and discounting, that postgraduate students may find useful as stepping stones. The material presented stems from my lectures to final year students at the University of Ulster during the last 12 years and some of my ongoing research work. When I moved to Northern Ireland in 1982, I was given a course called *Economics of Exhaustible Resources* to teach. This has changed its title and focus a number of times along with the structure of the University. My early reading lists included a number of journal articles and books written on the subject.

Uncover the mysteries within is enigmatic creation, **Natural Resource Economics Issues Analysis And Policy** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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Natural Resource Economics Issues Analysis And Policy Introduction

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