

Valuing Ground Water

Economic Concepts and Approaches

Committee on Valuing Ground Water

Water Science and Technology Board

Commission on Geosciences, Environment, and Resources

National Research Council

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Valuing Ground Water Economic Concepts And Approaches

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Water, Commission on Geosciences,
Environment and Resources, Division
on Earth and Life Studies, National
Research Council**

Valuing Ground Water Economic Concepts And Approaches:

Valuing Ground Water Committee on Valuing Ground Water, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1997-07-24 Because water in the United State has not been traded in markets there is no meaningful estimate of what it would cost if it were traded But failing to establish ground water s value for in situ uses such as sustaining wetlands as well as for extractive uses such as agriculture will lead to continued overuse and degradation of the nation s aquifers In Valuing Ground Water an interdisciplinary committee integrates the latest economic legal and physical knowledge about ground water and methods for valuing this resource making it comprehensible to decisionmakers involved in Superfund cleanup efforts local wellhead protection programs water allocation and other water related management issues Using the concept of total economic value this volume provides a framework for calculating the economic value of ground water and evaluating tradeoffs between competing uses of it Included are seven case studies where ground water valuation has been or could be used in decisionmaking The committee examines trends in ground water management factors that contribute to its value and issues surrounding ground water allocation and legal rights to its use The book discusses economic valuation of natural resources and reviews several valuation methods Presenting conclusions recommendations and research priorities Valuing Ground Water will be of interest to those concerned about ground water issues policymakers regulators economists attorneys researchers resource managers and environmental advocates

Valuing Ground Water National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Valuing Ground Water, 1997-07-10 Because water in the United State has not been traded in markets there is no meaningful estimate of what it would cost if it were traded But failing to establish ground water s value for in situ uses such as sustaining wetlands as well as for extractive uses such as agriculture will lead to continued overuse and degradation of the nation s aquifers In Valuing Ground Water an interdisciplinary committee integrates the latest economic legal and physical knowledge about ground water and methods for valuing this resource making it comprehensible to decision makers involved in Superfund cleanup efforts local wellhead protection programs water allocation and other water related management issues Using the concept of total economic value this volume provides a framework for calculating the economic value of ground water and evaluating tradeoffs between competing uses of it Included are seven case studies where ground water valuation has been or could be used in decisionmaking The committee examines trends in ground water management factors that contribute to its value and issues surrounding ground water allocation and legal rights to its use The book discusses economic valuation of natural resources and reviews several valuation methods Presenting conclusions recommendations and research priorities Valuing Ground Water will be of interest to those concerned about ground water issues policymakers regulators economists attorneys researchers resource managers and environmental advocates

Groundwater in Egypt's Deserts Abdelazim Negm, Ahmed

Elkhouly,2021-07-23 This book brings together contributions from groundwater researchers and scientists on underground water resources in Egypt s deserts The aquifers quantity and quality are evaluated in many regions of the Egyptian deserts using established methods that can be effectively employed to investigate the potential for sustainable development in Egypt and similarly arid countries The water resources in Egypt s deserts are subject to deterioration mainly by land salinization and water deficiency This book presents the best management practices water quantity and quality and optimal and sustainable usage of available groundwater The book offers a unique guide for all readers interested in groundwater modeling and assessment for sustainable development in Egypt and countries with similar weather and water conditions

Assessing and Managing Groundwater in Different Environments Jude Cobbing,Shafick Adams,Ingrid Dennis,Kornelius Riemann,2019-01-22 This collection of papers is a snapshot of modern hydrogeology in which highly technical methods and approaches sit side by side with overlapping legal social organisational institutional and governance considerations Groundwater is integral to many human and environmental systems Indeed there appears to be a growing realisation that some of the most pressing physical problems in the field of hydrogeology over abstraction salinization or pollution can only really be solved by taking a multi disciplinary approach to the issues that takes all other related professions into account Whilst a technical solution may be readily deciphered the larger challenge usually lies in the sustainably funded and widely accepted implementation of that measure This book ranges from discussion and debate on the hot topic of hydraulic fracturing of wells or fracing for shale gas and its potential to disrupt groundwater systems to the application of highly technical modelling procedures to help solve complex real world problems It is a window on the preoccupations of modern hydrogeologists and an insight into the way in which hydrogeological techniques and methods are being holistically adapted to address problems in the real world This book is targeted at professional hydrogeologists sociologists experts in governance law and policy as well as ecologists and other professionals that nowadays all sit alongside groundwater understanding The book will also appeal to politicians resource managers regulators and others interested in sustainable water supply

Valuing Ecosystem Services National Research Council,Division on Earth and Life Studies,Water Science and Technology Board,Committee on Assessing and Valuing the Services of Aquatic and Related Terrestrial Ecosystems,2005-05-14 Nutrient recycling habitat for plants and animals flood control and water supply are among 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

The Rivers of Greece Nikos Skoulikidis,Elias Dimitriou,Ioannis Karaouzas,2017-11-16 This volume provides essential

information on the origin and evolution of Greek rivers as well as their ecological and anthropogenic characteristics. The topics covered include geomorphology, biogeography, hydrology, hydrobiology, hydrogeochemistry, geological and biogeochemical processes, anthropogenic pressures, and ecological impacts, water management both in the antiquity and today, and river restoration. The book is divided into four parts, the first of which explores the importance of rivers for ancient Greek civilization and the natural processes affecting their evolution during the Holocene. In the second part, the hydrological, hydrochemical, and biological features of Greek rivers and the unique biogeographical characteristics that form the basis for their high biodiversity and endemism are highlighted, while the third part comprehensively discusses the impacts of environmental pollution on the structure and function of Greek river ecosystems. In turn, the final part describes the current socio-economic factors in Greece that are affecting established water management practices, the application of ecohydrological approaches in restoring fragmented rivers, and the lessons learned from restoring aquatic ecosystems in general as a paradigm for understanding and minimizing anthropogenic impacts on water resources at the Mediterranean scale. Given the breadth and depth of its coverage, the book offers an invaluable source of information for researchers, students, and environmental managers alike.

Groundwater Economics Charles A. Job, 2009-12-21. From the western United States to the Indian subcontinent, water issues have always been economic issues. Considered ubiquitous under the continents, groundwater varies considerably in depth, quality, accessibility, and availability. A unified discussion of groundwater and its economic importance. *Groundwater Economics* explores the application of e *Groundwater Economics, Two-Volume Set* Charles A. Job, 2022-05-29. Groundwater is a vitally important resource, and as its use increases, the available supply is depleted, creating a ripple effect of impacts on both the environment and the economy that need to be disseminated to a larger audience of students and practitioners. This second edition of *Groundwater Economics* accomplishes just that. This two-volume set is a comprehensive work focused on the economic values of groundwater resources and use, and it reinforces the need for a strong economic rationale in decision making relating to that use. This new edition includes a new chapter on sustainability, as well as updating all chapters with a focus on sustainability. It thoroughly explains the economic value of groundwater for sustainable use and needs, with practical examples, and includes thirteen new and updated case studies on the economics of groundwater data for decision making. It also addresses both local and regional groundwater economic choices through a series of applications at an international level. This set, written by a sustainability professional with decades of experience in managing groundwater use and protection, is written for other professionals as well as students who need to understand and evaluate water resources and manage their use from a variety of sustainable approaches.

Cost-Benefit Analysis of Groundwater Policy and Projects, with Case Studies Charles Job, 2021-07-27. The competition for groundwater sources as a water supply reinforces the need for a strong economic rationale in decision making. Evaluating economic decisions in the context of total water management and life cycle water use is essential to making critical

development and remediation choices This revised volume provides fundamental economic and policy concepts related to groundwater discusses important factors in life cycle cost benefit evaluation and explains triple bottom line analysis for different groundwater projects It includes new and updated case studies on groundwater issues with solutions for a range of situations based on economic data FEATURES OF THIS VOLUME Provides an understanding for the fundamental economic approaches to groundwater policy and project evaluation Incorporates life cycle cost benefit approaches in a triple bottom line framework Includes new case studies on the economics of health protection managed aquifer recharge local versus regional supply and strategic life cycle analysis Addresses local and regional groundwater economic choices through a series of practical applications Explores transboundary international climate change and macroeconomic factors influencing groundwater project and program decisions Cost Benefit Analysis of Groundwater Policy and Projects with Case Studies Second Edition the second volume of the two volume set Groundwater Economics is a must have for any professional or student who needs to understand and evaluate water resources and manage their use from a variety of sustainable approaches

Transferable Groundwater Rights Andreas N. Charalambous, 2013-10-28 The principle of transferable groundwater rights is that by making water rights capable of being traded in the market water resources can be used more sustainably and efficiently Groundwater would achieve its economic value by switching from the high volume low value irrigation which is prevalent with many farmers particularly in South Asia to low volume high value urban supply or the growing of intensive horticultural or cash crops This book discusses transferable groundwater rights in their broader context It starts with a detailed description of the physical aspects of groundwater which non technical readers should find useful followed by a discussion of legal and economic aspects Water transfers and the international experiences in transferable groundwater rights are dealt with in detail in two subsequent chapters A model is presented to guide those involved in water resources management and planning in their decision process to introduce transferable groundwater rights and water rights trading The author concludes that transferable groundwater rights potentially offer a better alternative to land based water rights systems However he casts serious doubt on whether groundwater rights trading on its own can achieve water resources sustainability environmental protection and social equity Government intervention seems to be almost always needed to assist the water rights market and take responsibility for any of its adverse consequences

Groundwater Salman M. A. Salman, 1999-01-01 Water is becoming an increasingly scarce resource for most of the world's citizens The current trends indicate that the overall situation is likely to deteriorate further at least for the next decade unless the water profession eschews business as usual practices which can only allow incremental changes to occur Groundwater is the least understood and least appreciated yet the most important natural resource available to mankind Groundwater represents about 97% of the existing fresh water resources excluding the resources locked in polar ice More than one and a half billion people in the urban parts of the world today depend on groundwater Groundwater supply is more reliable than the seasonal

and sometimes erratic surface water and provides the main line of defense against drought Moreover the quality of groundwater is by and large superior to surface water and cheaper to develop However when available data on groundwater is very scanty As a result the World Bank is now paying increasing attention to this valuable resource through both operations and sector work This publication represents the proceeding of the seminar Groundwater Legal and Policy Perspectives that was organized by the Legal Vice Presidency of the World Bank It explains some basic technical aspects of groundwater surveys the regulatory framework for it and discusses the World Bank experience and international law regarding this precious resource It is a timely publication and should also assist in a better understanding and appreciation of this valuable source It will be of interest to Bank staff borrowing country officials international agencies and research organizations working on groundwater

Production, Use, and Sustainability of Groundwater Charles Job, 2021-07-27 Groundwater is becoming increasingly scarce while the demand for water continues to grow at a global scale Understanding groundwater resources and their sustainable management is imperative for the future of groundwater use conservation and protection This revised and updated two volume set focused on sustainability covers the economic values of groundwater production and use including micro and macroeconomic factors groundwater markets economic evaluation tools climate change transboundary issues and policy evaluation It explores numerous applications and describes ways to evaluate the economics of groundwater use in the context of the larger ecosystem and the natural capital it provides

FEATURES OF THIS VOLUME Includes an important new chapter on groundwater sustainability management Addresses new examples of groundwater use that are applicable at both the local and international levels Provides the foundation for policy program and project analysis for all major uses of groundwater Updates groundwater use data along with explanations of major production costs and use benefits Gives a new perspective on users competition for the subsurface environment

Production Use and Sustainability of Groundwater Second Edition the first volume of the two volume set Groundwater Economics is a must have for any professional or student who needs to understand evaluate and manage water resources from a range of production and use perspectives affecting groundwater resource sustainability

Geostatistics and Geospatial Technologies for Groundwater Resources in India Partha Pratim Adhikary, Pravat Kumar Shit, Priyabrata Santra, Gouri Sankar Bhunia, Ashwani Kumar Tiwari, B. S. Chaudhary, 2021-02-26 This book offers essential information on geospatial technologies for water resource management and highlights the latest GIS and geostatistics techniques as they relate to groundwater Groundwater is inarguably India's single most important natural resource It is the foundation of millions of Indian farmers livelihood security and the primary source of drinking water for a vast majority of Indians in rural and urban areas The prospects of continued high rates of growth in the Indian economy will to a great extent depend on how judiciously we can manage groundwater in the years to come Over the past three decades India has emerged as by far the single largest consumer of groundwater in the world Though groundwater has made the country self sufficient in terms of food we face a crisis of

dwindling water tables and declining water quality Deep drilling by tube wells which was once part of the solution to water shortages is now in danger of becoming part of the problem Consequently we urgently need to focus our efforts on the sustainable and equitable management of groundwater Addressing that need this book presents novel advances in and applications of RS GIS and geostatistical techniques to the research community in a precise and straightforward manner

Safe Drinking Water Act, Section 1429 ground water report to Congress. ,1999 Environmental and Economic Benefit Analysis of the Proposed Revisions to the National Pollutant Discharge Elimination System Regulation and the Effluent Guidelines for Concentrated Animal Feeding Operations ,2001 Environmental and Economic Benefit Analysis of Final Revisions to the National Pollutant Discharge Elimination System Regulation and the Effluent Guidelines for Concentrated Animal Feeding Operations ,2002 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 Intensive Use of Groundwater: M. Ramon Llamas,E. Custodio,2002-01-01 This text is written by a number of authors from different countries and disciplines affording the reader an invaluable and unbiased perspective on the subject of intensive groundwater development Based on information gathered from the experience of many countries over the last decades the text aims to present a clear discussion on the conventional hydrogeological aspects of intensive groundwater use along with the ecological legal institutional economic and social challenges Divided into two main sections the first group of authors put forward the positive and negative aspects of intensive groundwater use whilst a second group provide an overview of the situation specific countries face as a consequence of this phenomenon Fully revised and up to date Groundwater Intensive Use makes a significant number of discoveries in a subject area that is topical in today s climate *Fort Huachuca Real Property Master Planning, Approval of Land Use and Real Estate Investment Strategies ,1999 Urban Groundwater, Meeting the Challenge* Ken W.F. Howard,2007-01-11 During the past three decades urban groundwater has emerged as one of the worlds most pressing issues Explosive population growth most prevalent in cities has placed an inordinate demand on groundwater supply prompting concerns for its long term sustainability at a time when the quality of available groundwater resources is being increasingly

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