

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

**Ahmed Sefelnasr, Mohsen Sherif, Vijay
P. Singh**



Valuing Ground Water Economic Concepts And Approaches:

Valuing Ground Water National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Valuing Ground Water, 1997-08-10 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

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 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.

Valuing Ecosystem Services R. Kerry Turner, Stavros Georgiou, Brendan Fisher, 2012-05-04 Ecosystem services can be broadly defined as the aspects of ecosystems that provide benefits to people. This book provides guidance on the valuation of ecosystem services using the case of multifunctional wetlands to illustrate and make recommendations regarding the methods and techniques that can be applied to appraise management options. It provides a review of ecosystem service valuation rationale including its importance from both a policy and project appraisal perspective and a useful reference when considering policy and appraisal of ecosystem management options. It shows how legal obligations and other high level management targets should be taken into account in valuation exercises thus giving important policy context to the management options. The authors set out what they call an Ecosystem Services Approach to the full appraisal of the role of ecosystem services in the economy and society. Although concentrating on wetlands the approaches suggested provide an assessment framework that can be applied to other types of ecosystem assets.

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

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

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 *Handbook on the Economics of Ecosystem Services and Biodiversity* Paulo A L D Nunes, Pushpam Kumar, Tom Dedeurwaerdere, 2014-06-27 In recent years there has been a marked proliferation in the literature on economic approaches to ecosystem management which has created a subsequent need for real understanding of the scope and the limits of the economic approaches to ecosystems and **The Economics of Water Demands** Steven Renzetti, 2012-12-06 This book arose out of a paper that I wrote for the World Bank at the request of Ariel Dinar the editor for the series in which this volume appears I began that paper by pointing to the growing importance of demand side considerations in water resources The provision of potable water is one of government's oldest functions with evidence of this activity stretching back thousands of years During much of that time water demands were taken as exogenously given and the principle task of authorities was defined as an engineering one how to supply a given quantity of water at least cost In recent years however concerns have arisen from observations of excessive water use degraded water quality and continued inadequate service for many especially the very poor As a result of these and other concerns there is a growing effort to view water resource allocation from a perspective that incorporates consumers preferences along with supply constraints into management plans Renzetti 2000 p 123 The purpose of this volume is to examine in greater detail than was possible in that article what is known regarding the economic characteristics of the demand for water Thus this book is meant to be an extended critical review of the state of the art

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 *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 arguably 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.

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

The Economics of Ecosystems and Biodiversity: Ecological and Economic Foundations Pushpam Kumar, 2012-12-20 Human well-being relies critically on ecosystem services provided by nature. Examples include water and air quality regulation, nutrient cycling, and decomposition, plant pollination, and flood control, all of which are dependent on biodiversity. They are predominantly public goods with limited or no markets and do not command any price in the conventional economic system, so their loss is often not detected and continues unaddressed and unabated. This in turn not only impacts human well-being but also seriously undermines the sustainability of the economic system. It is against this background that TEEB, The Economics of Ecosystems and Biodiversity project, was set up in 2007 and led by the United Nations Environment Programme to provide a comprehensive global assessment of economic aspects of these issues. This book, written by a team of international experts, represents the scientific state of the art, providing a comprehensive assessment of the fundamental ecological and economic principles of measuring and valuing ecosystem services and biodiversity and showing how these can be mainstreamed into public policies. This volume and subsequent TEEB outputs will provide the authoritative knowledge and guidance to drive forward the biodiversity conservation agenda for the next decade.

Stakeholder-oriented Valuation to Support Water Resources Management Processes Leon Hermans, Food and Agriculture Organization of the United Nations, 2006-01-01 Today, raising capacity in water resources management entails supporting stakeholders and decision makers to reach a common understanding on the priorities and necessary arrangements for sharing and allocating water-related goods and services. Valuation is central to this process, as setting priorities and making choices implies valuing certain uses and arrangements above others. Water valuation can help

stakeholders to express the values that water related goods and services represent to them It also offers a means for conflict resolution and planning informing stakeholders supporting communication and facilitating joint decision making on priorities and specific actions This report confronts concepts from the literature on water valuation with practical experiences from three local cases where an effort was made to embed existing valuation tools and methods in ongoing water resources management processes It uses the lessons from this exploration to provide a first outline for a stakeholder oriented water valuation process This is expected to provide a useful starting point to help water professionals and policy makers improve the use of water valuation as a means to support participatory processes of water resources management 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 **Water Resources Management and Sustainability**

Ahmed Sefelnasr, Mohsen Sherif, Vijay P. Singh, 2025-03-03 The first section deals with hydrological topics problems and principles In this chapter detailed studies related to hydrological monitoring are carried out Overland flow velocity estimation wireless sensor networks and application of deep learning techniques are discussed These topics are helpful to estimate overland flow velocities using tracer techniques based on the infrared thermography and fluorescent properties of quinine which can help in the visualization of shallow flows evaluation of high resolution rainfall measurement and extracting water bodies from high resolution drones and satellite imagery using an integrated deep learning method The chapter critically discusses the advantage of thermal tracers utilizing the wireless sensor networks for the accurate capture of spatially varied precipitation patterns and evaluation and quality assessment of water extraction using deep learning techniques It highlights recommendations and limitations that should be taken into account for hydrological monitoring Moreover this section discusses rainfall and floods and their related attributes in arid regions including flood mitigation and risk assessment Flood mapping and assessment recent trends of floods and their impacts are comprehensively discussed The outcomes are for useful hydrologic infrastructure design under changing climate This part also highlights the importance of applying new methodologies considering the statements and questions asked by scientists and researchers The second section addresses droughts and their analysis and assessment Drought events are great challenges faced by nature in the wake of climate change This part will help stakeholders gather useful information and develop a deep understanding of these salient features of climate change s impacts It deals with the various studies conducted in the field of drought and flash drought Flash drought is a composition of various factors leading to intense drought conditions So limitations and recommendations to mitigate drought events are discussed in detail The third section discusses groundwater as an important component in the water budget in arid regions Threats recharges quality and management options of this resource are also discussed Beginning with a perspective on the management of this resource the papers go on to discuss rational decision making challenges use of information technology integrated management and modeling for groundwater resources

management Section four deals with water quality This part discusses modern techniques for water quality assessment and treatment procedures The industrial and commercial area generates a large amount of waste which is indiscriminately disposed of leading to several environmental issues This section provides a detailed analysis on water quality hydrogeochemistry impact and benefits of treating municipal wastewater to tertiary quality groundwater table and quality deterioration Recommendations for adequate planning design construction and location of open dumpsites to ameliorate groundwater pollution and the closing of trace metal boreholes to avoid possible health implications or outbreaks that are likely occurring or are expected to occur Section five discusses water resources management This topic has been receiving a fair amount of attention in many arid countries of the world and more specifically in the Gulf region This section addresses regulations for conservation reuse and security The limited freshwater resources must be developed managed and used as efficiently as possible Decision support systems for water resources planning management and water rights analyses and control have been discussed as well

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

Groundwater Management in Large River Basins Milan Dimkic, Heinz-Jürgen Brauch, Michael

Kavanaugh, 2008-11-15 Part of Groundwater Set Buy all six books and save over 30% on buying separately This book reviews the state of the art of groundwater management in large river basins providing an innovative informative and consistent approach with technical tools for planners decision makers and engineers Groundwater Management in Large River Basins provides comprehensive coverage of the basic elements of groundwater management in large river basins including Social economic and legislative framework goals practices and possible tools Review of EU groundwater legislation and its implementation Natural groundwater occurrence and natural circumstances and processes Groundwater management and maintenance issues Role of natural factors in groundwater management Different methods of groundwater abstraction and protection Groundwater treatment technologies Well ageing and maintenance Nitrate problems etc Groundwater modeling as a tool for groundwater assessment Aquifer restoration A spectrum of technical appendices for engineers which address groundwater issues Also included will be appendices intended to support the work of groundwater engineers This book will be of interest to groundwater engineers and planners as well as lecturers and postgraduate and postdoctoral students

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 Water Policy in Texas Ronald C. Griffin, 2012-06-25 As a water scarce state with deep cultural attachments to private property rights Texas has taken a unique evolutionary path with regard to water management This new resource surveys past and current challenges for managing both groundwater and surface water telling a comprehensive story about water policy in Texas and identifying opportunities for improving future governance Texas is the U S state that has experimented most thoroughly with water markets In Water Policy in Texas experts from broad disciplinary perspectives describe and analyze Texas water laws and management agencies and the practices of water marketing and rate making in Texas They explore the unique cases of the Edwards and Ogallala aquifers the science and policy of environmental water stewardship the extensive history of formalized water sharing with neighboring states and Mexico and the opportunities for harnessing new technologies that might aid in addressing scarcity This multidimensional interdisciplinary book will be a valuable resource for students and researchers of Texas water policy as well as for water managers worldwide particularly those working within contexts of water scarcity

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