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# THE ECONOMICS OF GROUNDWATER MANAGEMENT IN ARID COUNTRIES

Theory, International Experience  
and a Case Study of Jordan

MANUEL SCHIFFLER

# Economics Of Groundwater Management In Arid Countries

**International Association of  
Hydrological Sciences. Hydrology 2020  
Working Group**

## **Economics Of Groundwater Management In Arid Countries:**

*The Economics of Groundwater Management in Arid Countries* Manuel Schiffler, 2014-06-03 Groundwater is being depleted on a large scale in many arid and semi arid parts of the world The author asks whether it should be avoided at any price or if it is desirable in certain circumstances by undertaking an economic analysis and considering the political and hydrological aspects of water management

**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

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

**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

**Rethinking the Approach to Groundwater and Food Security** Marcus Moench, Jacob J. Burke, Yarrow Moench, 2003-01-01 This study attempts to re frame the current thinking on groundwater development and the implications for food security Groundwater is important in agriculture as it provides a reliable fallback when rainfeeding fails It is therefore instrumental in managing risk and optimizing food production However accessing groundwater has become habit and turned to dependency Resources limits on many key aquifers have been exceeded and competition for groundwater has become intense This study highlights the role of adaptive strategies in dealing with aquifer management and indicates directions of research and management

**Water Resource Economics and Policy** W. D. Shaw, 2021-02-26 This second edition includes updated information and an exploration of water issues outside the United States as well as a new application of behavioral and experimental economics to the topic A concise introduction to issues of water quality and quantity in both urban and agricultural settings **Water Resource Economics and Policy** will be a valuable resource or text for students and researchers in the fields of agricultural economics geography law and hydrology Those involved in water resource agencies and private utilities will also find the book a useful reference

**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 Management in India** M. Dinesh Kumar, O P Singh, 2007-02-21 Groundwater is becoming an increasingly popular resource because of the relative ease and flexibility with which it can be tapped While

developing groundwater resource promises to help alleviate poverty in many areas the most formidable challenge is its sustainable use and management in regions where it is under threat The central focus of this book is groundwater management in India the economies that groundwater generates the socio economic impact of its intensive use and the physical institutional and policy options for its management The book provides a fresh analysis of the socio ecology of groundwater based on a synthesis of macro and micro level data on the hydrological social economic and institutional parameters The region of North Gujarat has been specifically studied to document the uncontrolled use of groundwater and the ill effects of such exploitation With alarming drops in water levels and increasing levels of fluorides and TDS in groundwater the region s water problems have attracted international attention because of their implications in terms of reducing the viability of irrigated agriculture as also their impact on community health The findings are used to draw policy conclusions regarding the tools for managing groundwater in other regions with similar resource and use characteristics The authors have used several new methodologies analytical procedures and criteria to analyse groundwater use in agriculture the economic value of groundwater water intensity of milk production and the efficient use of groundwater

**East Asian Development** Yilmaz Akyuz, 2020-04-15 This collection of papers challenges the conventional view of East Asian development driven by open and efficient markets and suggests that considerable diversity both at the institutional level and in policy approaches lies behind the region s rapid economic growth

**The Water, Energy and Food Security Nexus** M. Dinesh Kumar, Nitin Bassi, A. Narayanamoorthy, M.V.K. Sivamohan, 2014-02-05 It is becoming increasingly recognized that for the optimal sustainable development and use of natural resources an integrated approach to water management agriculture food security and energy is required This nexus is now the focus of major attention by researchers policy makers and practitioners In this book the authors show how these issues are being addressed in India as part of its economic development and how these can provide lessons for other developing nations They address the conflicting claims of water resources for irrigation and hydropower where both are scarce at the national level for fostering water and energy security They also consider the relationship between water for irrigated agriculture and household use and its impact on rural poverty They identify weaknesses in the current hydropower development programme in India that are preventing it from being an ecologically sustainable socially just and economically viable solution to meeting growing energy demand The empirical analyses presented show the enormous scope for co management of water energy agricultural growth and food security through appropriate technological interventions and market instruments

**Competition for Scarce Groundwater in the Sana'a Plain, Yemen. A study of the incentive systems for urban and agricultural water use.** Mohammed I. Al-Hamdi, 2021-05-30 The efficient management of water supply becomes even more important in arid areas where supply is at best erratic This book looks at a range of issues connected to urban and agricultural water use in the Sana a Plain area including engineering and logistical problems environmental and climatic influences on groundwater legal and political

wrangles economic considerations and options for waste water re use      Groundwater Management Food and Agriculture Organization of the United Nations,2003 A joint publication of the FAO Land and Water Development Division the International Atomic Energy Agency the United Nations Department of Economic and Social Affairs and the United Nations Educational Scientific and Cultural Organization with contributions from the Institute for Social and Environmental Transition Boulder Colorado United States of America and the International Association of Hydrogeologists Kenilworth United Kingdom      Groundwater Management Practices Angelos N. Findikakis,Kuniaki Sato,2011-06-08 Groundwater is an indispensable resource in many parts of the world where it supports domestic water supply irrigated agriculture and industry Its increased and often intensive use during the last half century has created problems and raised concerns regarding the potential depletion of local aquifers water quality degradation and various geologic hazards such as land subsidence and sinkholes This volume includes contributions by experts from several countries who describe different groundwater management practices in their part of the world and discuss measures and actions in response to the challenges associated with the sustainability of groundwater use and the protection of the groundwater environment as well as the evolution of legal and institutional framework needed for their implementation It discusses past and present practices and various aspects of the regulatory and legal framework of groundwater management in Japan China India Iran Australia the United States Spain Denmark Switzerland and the European Union and reviews recent efforts to improve the management of transboundary aquifer resources      Groundwater - Volume III Luis Silveira,Eduardo J. Usunoff,2009-02-20 Groundwater theme is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Groundwater is water located beneath the ground surface in soil pore spaces and in the fractures of lithologic formations This theme presents a perspective of the field of groundwater and an overview of the important aspects of the subject such as natural origin and distribution characteristics under diverse climates and surrounding rocky environments exploration and management natural quality and human related sources of contamination sustainable exploitation of resources protection and current research trends The content of the theme on Groundwater is organized with state of the art presentations covering several topics Origin Distribution Formation and Effects Typical Hydrogeological Scenarios Transport Processes in Groundwater Transport Phenomena and Vulnerability of the Unsaturated Zone Groundwater Development Groundwater Use and Protection Groundwater Management An Overview of Hydro geology Economic Values and Principles of Management Special Issues in Groundwater which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts Managers and Decision makers and NGOs      International Water Law and the Human Right to Water Imad Antoine Ibrahim,2024-11-19 This book examines the development of international law applicable to

Transboundary Aquifers TBAs considering the Human Right to Water and Sanitation HRWS The purpose is to determine how International Water Law IWL and the HRWS can be harmonized in the context of TBAs This is important given rules and instruments adopted to address this topic are relatively nascent and the field itself is still in the process of developing regulatory frameworks Taking the application of the HRWS to shared aquifers as a case study the work discusses whether IWL and International Human Rights Law complement each other The response to this question requires an analysis of the development of International Groundwater Law and its challenges the evolution of the HRWS the nature of transboundary groundwaters and the interplay between these two fields The author argues that IWL agreements should contain a provision related to the HRWS to ensure the protection of this right with a stipulation included in the nonbinding instrument that tackles shared groundwaters the Draft Articles on the Law of Transboundary Aquifers adopted in 2008 through the United Nations General Assembly Resolution The book will be of interest to international lawyers water and human right experts geologists and anyone interested in water and human rights issues

Hydrology 2020 International Association of Hydrological Sciences. Hydrology 2020 Working Group,2006 A milestone capturing the state of the art in hydrological science at the beginning of the 21st century a chart for hydrologists exploring the new frontiers in hydrology and a guide for those involved with developing and implementing water policies It considers the capability that hydrological sciences will and should have by 2020 and what needs doing now in order to achieve this There is an emphasis on societal issues and interdisciplinary work pertinent to hydrology as hydrologists cannot work in isolation from society

Groundwater Economics and Policy in South Asia M. Dinesh Kumar,2023-08-07 Groundwater Economics and Policy in South Asia is a reference guide focusing on groundwater management and groundwater economics in South Asia The author compares the regional variations across South Asia and the public policies that shaped the groundwater sector and presents the most up to date information on groundwater management using practical case studies and empirical data With the inclusion of strong methodological solutions for sustainable groundwater management scholars in the fields of geohydrology agricultural sciences water resource economics and professionals in water science and policy will get access to the latest policies and methods used in groundwater research in South Asia Presents a comprehensive overview of water management issues and governance in South Asia Includes detailed case studies and applications to guide the reader Contains the most recent developments in the literature along with empirical data

Selected Water Resources Abstracts ,1991

**The Use of Economic Valuation in Environmental Policy** Phoebe Koundouri,2009-06-11 This book aims to show that economics in general and non market valuation methods in particular together with participatory and engineering tools can facilitate the design and implementation of the different European policies in relation to mitigation of water stress The results presented in this book derive from AquaStress an EU funded integrated project delivering interdisciplinary methodologies to help mitigate water stress problems The project draws on both academic and practitioner skills to generate knowledge in

technological operational management policy socio economic and environmental domains The book is divided in three parts and as the AquaStress project is case study driven Part I begins with a review of the up to date use of non market valuation economic methods in the design and implementation of EU water policies Part II of the book proceeds to discuss and analyze participatory and engineering tools that can facilitate the determination of efficient water resources policies and the consequent implementation of the EU WFD using case studies of test sites from Bulgaria Italy Morocco and Poland Part III of the book brings us back to the use of economic tools and focuses on policy appraisal through social cost benefit analyses and the choice estimation of the socially efficient discount rate to be used in such analyses The book concludes with specific policy recommendations for all case studies considered in previous chapters This work would be of most interest to water resources managers and policy makers as well as consultants working on the implementation of the WFD It would also be helpful to students and scholars of water resource management

### **Managed Aquifer Recharge in MENA Countries**

Mustafa El-Rawy, Abdelazim Negm, 2024-07-10 This book presents an updated state of the art for managed aquifer recharge MAR for MENA regions MENA regions are home to 6% of the world's population but only possess 1.4% of its water resources with almost absolute scarcity Groundwater is the primary source of water in 54% of MENA countries Therefore the MENA regions seek sustainable management solutions amid its arid climate and rising demands from urbanization and agriculture MAR aims to help sustain groundwater resources This book explores MAR as a strategic approach to reducing water security by enhancing groundwater supplies Utilizing techniques such as soil aquifer recharge aquifer storage and recovery rainfall harvesting and riverbank filtration The presented case studies offer deep insights into MAR methods their implementation and MAR technologies The beneficiaries of the book include postgraduate students academics policymakers and practitioners in water resources



## **Economics Of Groundwater Management In Arid Countries** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Economics Of Groundwater Management In Arid Countries**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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