

ECONOMICS OF WATER RESOURCES PLANNING

L. Douglas James / Robert R. Lee



McGraw-Hill Series in Water Resources and Environmental Engineering

Economics Of Water Resources Planning

Leonard Douglas James



Economics Of Water Resources Planning:

Economics of Water Resources Planning Leonard Douglas James, Robert Rue Lee, 1970

Economics of Water

Resources: From Regulation to Privatization Nicolas Spulber, Asghar Sabbaghi, 2013-03-14 The purpose of this book is to develop a general economic model which integrates the quantity and quality issues of water resource management and to provide along with a detailed criticism of the policy instruments now in use alternative proposals concerning the efficient allocation and distribution of water In particular we treat water as a multi product commodity where the market plays a major role in determining water quality discriminant pricing and its value to the user We examine the process of moving from administrative allocation and regulation to privatization of the water industry as the key element in promoting effective competition and in providing economic incentives for greater efficiency Water quantity and quality considered independently of each other have been the subject of numerous studies during the last twenty years Let us recall briefly the most outstanding among them A variety of models have been constructed concerning the optimal scheduling and sequence of water supply projects dynamic programming for solving multi bjective functions in water resource development planning models for coordinating regional water resource supply and demand etc Other studies have devised water quality management models including multi period design of regional or municipal wastewater systems cost allocation methods to induce effluent dischargers to participate in regional water systems models to predict the quality of effluent in particular whether it meets certain established standards models for finding optimal waste removal policies at each of the polluting sources and so on

Water Resources Development Edward Kuiper, 2013-12-14

The Evolution of Water Resource

Planning and Decision Making Clifford S. Russell, Duane D. Baumann, 2009 This broad review of the development of US water resource policy analysis and practice offers perspectives from several disciplines law economics engineering ecology and political science While the historical context provided goes back to the early 19th century the book concentrates on the past 60 years and features a discussion of the difficulty that has generally been encountered in bringing the disciplines of economics and ecology into collaboration in the water resource context The book explores the evolution of water related analytical capabilities and institutions and provides illustrations from case studies concluding with recommendations for research institutional change and action Though designed to be a background textbook for interdisciplinary graduate seminars in water resources planning and management it is accessible to interested lay readers and those who have policymaking or implementation responsibility but lack a technical background The book will appeal to students and faculty in water policy economics and engineering and in interdisciplinary programs organized around water resource problems and questions Policy makers and general readers will also appreciate this non technical introduction

Water Resources Planning and Management R. Quentin Grafton, Karen Hussey, 2011-02-17 Water is an increasingly critical issue at the forefront of global policy change management and planning There are growing concerns about water as a renewable

resource its availability for a wide range of users aquatic ecosystem health and global issues relating to climate change water security water trading and water ethics This handbook provides the most comprehensive reference ever published on water resource issues It brings together multiple disciplines to understand and help resolve problems of water quality and scarcity from a global perspective Its case studies and foundation chapters will be greatly valued by students researchers and professionals involved in water resources hydrology governance and public policy law economics geography and environmental studies

Economics of water resources planning Leonard Douglas James,1970 **Water Resources Project Economics** Edward Kuiper,1971 **Water Resources Research Catalog** ,1966 *Current Issues in the Economics of Water Resource Management* P. Pashardes,T.M. Swanson,A. Xepapadeas,2013-04-17 The marginal price elasticities estimated by Martinez Espineira conforms to expectation The price specification that accounts for the changing proportion of water users in each block yields a higher elasticity 0.47 compared to the specification ignoring this feature of the data However this difference is not found to be statistically significant a result attributed to the low power of the test small sample size limiting the accuracy of estimates In conclusion the paper provides a theoretically correct price specification for demand functions under block pricing and aggregate data The empirical findings in the paper however are not conclusive and further empirical work using more data and alternative nonlinear demand functions is needed to show the practical implications of the arguments put forward by the Martinez Espineira's paper Static empirical consumer demand functions estimated with aggregate data are well known to suffer from serial correlation and other statistical problems associated with misspecified dynamics These dynamics arise because consumers do not react immediately to a change in prices due to their largely predetermined lifestyle In the case of demand for water for example current purchases can be largely predetermined due to commitments arising from past purchases such as swimming pools bathtubs dishwashing machines etc Muellbauer and Pashardes 1992 show that the autoregressive nature of consumer demand data can be captured in a theoretically consistent manner by incorporating intertemporal aspects of consumer behaviour in the model through habit formation and durability

Economics of Water Resources Nicolas Spulber,Asghar Sabbaghi,2014-01-15 This book develops a general economic model which integrates the quantity and quality issues of water resource management and provides along with a detailed criticism of the policy instruments now in use alternative proposals concerning the efficient allocation and distribution of water In particular the authors treat water as a multi product commodity where the market plays a major role in determining water quality discriminant pricing and its value to the user The book examines the process of moving from administrative allocation and regulation to privatization of the water industry as the key element in promoting effective competition and in providing economic incentives for greater efficiency The book is divided into four major parts The first presents the analytical framework within which the main issues in the management of water resources are examined The second part focuses on water quality modeling and the analysis of quantity quality controls and water

distribution Part three examines instruments of public policy and the regulations enacted for water resources management The fourth part presents the overall conclusions The book is designed for all students of environmental problems as well as for professionals involved in water resources allocation and in pollution abatement programs at both planning and management levels The book can be used in graduate courses in water resource management environment management economics of natural resources and planning as well as a basic reference work on water resources and on the management of natural resources in general

Selected Water Resources Abstracts ,1981 *Environmental Protection Research Catalog: Indexes* Smithsonian Science Information Exchange,1972 **Economics for Water Resources Planning** P. Klop,2004 **Water Resources Research Catalog** ,1972 Beginning with vol 9 only new and continuing but modified projects are listed Vols 8 should be kept as a record of continuing but unchanged projects Selected Water Resources Abstracts ,1991 A Selected Annotated Bibliography on the Analysis of Water Resource Systems ,1976 **The Price of Water** Stephen Merrett,2005-02-01 Bringing together 14 papers previously published in refereed journals The Price of Water provides information that many readers would not otherwise have access to through their professional and academic libraries The basic disciplines of the articles are economics and philosophy built upon by discussion of hydrology civil engineering water law and water resource planning The scope of the book is broad dealing with a diverse range of subjects such as regional and catchment planning and integrated water resources management Topics considered include both water quantities and qualities drought management the virtual water controversy farmers water rights the economic demand for water the design of abstraction charges the cost and use of irrigation water the design of effluent charges the willingness to pay methodology The Price of Water aims to link up economics with the other dominant water resource disciplines establishing an economics of the real world rather than an academic abstraction the hydrosocial balance In providing a new and practicable basis for planning outstream water investments as well as understanding the baseline situation the development and use of the hydrosocial balance to modelling water resources supply and use at the regional or river basin scale delivers this link

Multiobjective Water Resources Planning Daniel P. Loucks,1975 *Urban Water Planning* Herbert Alfred Swenson,1972 *Environment Abstracts* ,1980

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