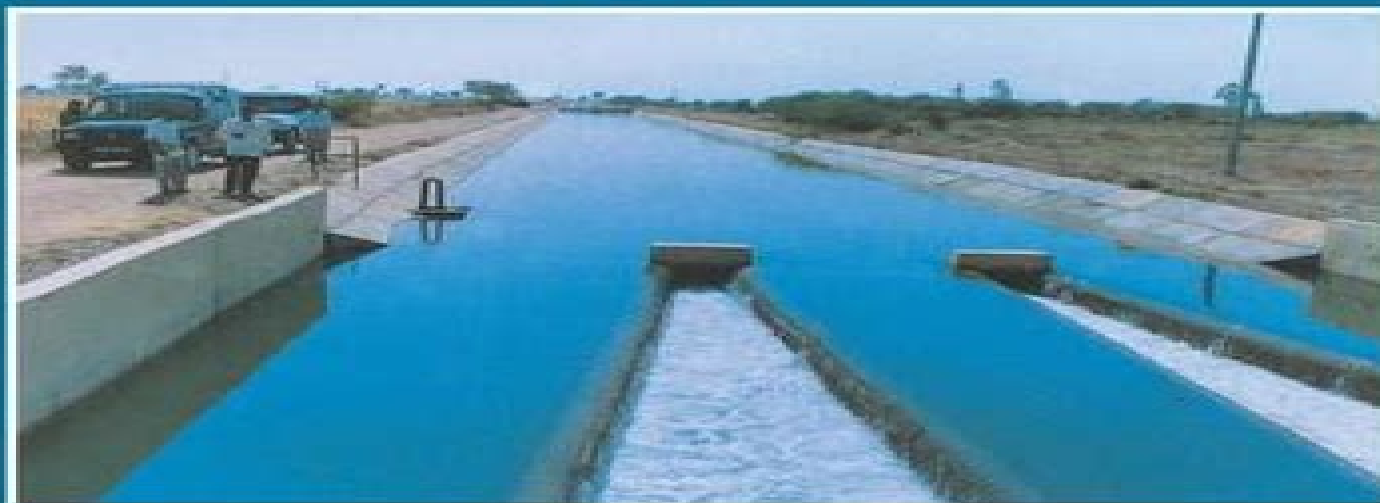




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# Planning the Management, Operation, and Maintenance of Irrigation and Drainage Systems

*A Guide for the Preparation of Strategies  
and Manuals*



*International Commission on  
Irrigation and Drainage (ICID)*

# Management Of Irrigation And Drainage Systems

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## **Management Of Irrigation And Drainage Systems:**

Management of Irrigation and Drainage Systems Hector M. Malano, Paul van Hofwegen, 1999-01-01 This monograph provides an overview of the principles required for a service orientation in the management of irrigation and drainage systems The material covered is designed to emphasize an area largely neglected in the irrigation and drainage management literature The dominating philosophy underlying this book is that irrigation and drainage systems must be managed as a service business responsive to the needs and changing requirements of its customers It is postulated that this service approach to the management of irrigation and drainage systems constitutes a key element of the strategy that is needed to improve the current level of performance of many irrigation and drainage systems worldwide Enhanced performance of irrigation is a prerequisite if we are to face the enormous challenge of producing greater quantities of food to meet the demand of a growing population This is particularly the case in an environment with increasing competition for water from industry and urban water users set against mounting concerns about environmental sustainability

*Management of Irrigation and Drainage Systems* Hector M. Malano, Paul van Hofwegen, 2018-05-02 This monograph provides an overview of the principles required for a service orientation in the management of irrigation and drainage systems The material covered is designed to emphasize an area largely neglected in the irrigation and drainage management literature The dominating philosophy underlying this book is that irrigation and drainage systems must be managed as a service business responsive to the needs and changing requirements of its customers It is postulated that this service approach to the management of irrigation and drainage systems constitutes a key element of the strategy that is needed to improve the current level of performance of many irrigation and drainage systems worldwide Enhanced performance of irrigation is a prerequisite if we are to face the enormous challenge of producing greater quantities of food to meet the demand of a growing population This is particularly the case in an environment with increasing competition for water from industry and urban water users set against mounting concerns about environmental sustainability

**Planning the Management, Operation, and Maintenance of Irrigation and Drainage Systems**, 1998 This paper provides the basis for the preparation of manuals necessary for managers and staffs to perform needed activities at the proper time The guide provides a comprehensive list of issues that should be addressed in operation and maintenance manuals for irrigation and drainage systems and a listing of published materials and working papers which will assist in the formulation of plans for operation and maintenance The paper serves as a valuable tool to help improve the performance of irrigation and drainage systems and to assist managers in developing and improving effective organizations to serve water consumers better

**Management of Irrigation and Drainage Systems for Reuse of Drainage Water** J. E. Ayars, C. J. Phene, R. A. Schoneman, 1984 *Modern Land Drainage* Willem Vlotman, Lambert Smedema, David Rycroft, 2020-05-07 Modern Land Drainage 2nd edition is a fully revised and updated edition of the 2004 edition Modern Land Drainage describes traditional drainage formulas Hooghoudt Kirkham

Donnan Ernst Glover Dumm for rainfed agriculture in the humid temperature zone Significant parts are devoted to drainage for salinity control of irrigated land in semi arid zones and to drainage of rice land in the humid tropics Institutional management and maintenance aspects are extensively covered as well as the mitigation of adverse impacts of drainage interventions on the environment The latest computer applications for drainage design in the context of integrated water management are described DRAINMOD HEC SWAP etc Field surveys are executed by governments with the aid of consultants but rarely are the end stakeholders i e farmers and general public involved from inception to planning to execution of a drainage system Yet during the Operation Management and Maintenance OMM phase of a water management system they are expected to takeover run bear and be responsible for the costs of OMM The book describes successful methodologies and processes to be followed for engagement of stakeholders at all levels from government to farm from minister to farmer and from beginning to end The book covers all aspects needed for sustainable drainage The latest survey methodologies with satellites and drones are suggested to assess cause and effect Waterlogging and salinity are the effect of something caused most likely upstream of the drainage problem location Hence treating the cause may be more cost effective Triple Bottom Line social environmental and financial considerations and the water food energy nexus are an integral part of the drainage design process Controlled drainage i e the balance of removal and conservation of drainage water and minimising solute transport as low as reasonably achievable ALARA principle is extensively described This work is intended for use both as a university level textbook and as a professional handbook it is of particular value to professionals engaged in drainage development in the context of integrated water resources and river basin management civil and agricultural engineers government officials university students and libraries

*Development and Management Aspects of Irrigation and Drainage Systems* American Society of Civil Engineers. Irrigation and Drainage Division. Specialty Conference, 1985

**Irrigation Management** Martin Burton, 2010 In many countries irrigated agriculture consumes a large proportion of the available water resources often over 70% of the total There is considerable pressure to release water for other uses and as a sector irrigated agriculture will have to increase the efficiency and productivity of its water use This is particularly true for manually operated irrigation systems managed by government agencies which provide water for a large number of users on small landholdings and represent 60% of the total irrigated area worldwide Drawing on the author's 30 years of experience in some 28 countries this book offers knowledge of the management of irrigation and drainage systems including traditional technical areas of systems operation and maintenance and expanding managerial institutional and organizational aspects Chapters provide guidelines to improve management operation and maintenance processes which move management thinking out of traditional public sector mindsets to a more customer focused performance oriented service delivery As a practical guide to improve efficiency and productivity in irrigated agriculture this book will be essential reading for irrigation managers and technicians as well as students and policy makers in water management agriculture and

sustainable development      **Management, Operation, and Maintenance of Irrigation and Drainage Systems** Albert J. Clemmens, 1991 MOP 57 presents significant innovations and modifications of procedures that have been implemented throughout the irrigation and drainage industry      *Planning the Management, Operation, and Maintenance of Irrigation and Drainage Systems* International Commission on Irrigation and Drainage, 1989 This book has been prepared to help organizations responsible for operation and maintenance of irrigation and drainage systems to develop strategies and prepare plans for proper and effective operation and maintenance It provides the basis for the preparation of manuals necessary for managers and staff to perform needed activities at the proper time The guide provides a comprehensive list of issues that should be addressed in operation and maintenance manuals for irrigation and drainage systems and a listing of published materials and working papers which will assist in the formulation of plans for operation and maintenance The guide should serve as a valuable tool to assist managers in developing and improving effective organizations to serve water consumers better      **Management of Agricultural Drainage Water Quality** Food and Agriculture Organization of the United Nations, 1997-01-01      **Sustainable Irrigation and Drainage V** C.A. Brebbia, H. Bjornlund, 2014-09-16 Irrigation as the biggest water user in most regions of the world is facing significant challenges in balancing social economic and environmental needs for water These proceedings of the 5th International Conference on Sustainable Irrigation and Drainage Management Technologies and Policies provide examples of how irrigation and drainage can become more sustainable while acknowledging that the concept of sustainability is a goal that continues to change as our knowledge of the biophysical realities alters In that sense moving towards sustainability is an ever evolving journey A focus is made on the implications for improving sustainability whether this is drainage irrigation technologies economic modelling governance studies for irrigation management reuse of water or any other aspect Topics covered include Irrigation management Irrigation modelling Irrigation systems and planning Economic incentives Groundwater issues Water contamination and remediation Drainage systems Drainage modelling International issues Water reuse Climate change effects Water trade Economics of irrigation Socio economic benefits      **Planning the Management, Operation, and Maintenance of Irrigation and Drainage Systems** International Commission on Irrigation and Drainage Staff, 1989      *Handbook of Irrigation and Drainage Systems* Kenneth Johnson, 2012-08 Edited by an expert in the field this handbook examines the maintenance and control of adequate irrigation and drainage systems      **Integrated Design and Management of Irrigation-drainage Systems Incorporating Water Quality Aspects** Henry B. Manguerra, 1995      Irrigation Efficiency Water Resources Scientific Information Center, 1973      **Rio Del Oro Specific Plan Project, Sacramento County**, 2010      Management of Irrigation and Drainage Systems for Salt Balance Bherulal T. Devrajani, 1993      ,      *Handbook of Irrigation and Drainage Systems* Kenneth Johnson ((Director, National Centre for Efficient Irrigation Technology Research)), 2012      *Quality of Water Resources in Poland* Martina Zeleňáková, Katarzyna Kubiak-Wójcicka, Abdelazim M Negm, 2021-02-18 This book

presents state of the art knowledge concerning water quality in Poland It offers a wide variety of cases and issues on water resource quality management The book also presents different methods and strategies to effectively use the most advanced water resource quality problems such as water pollution whether physical chemical or biological of surface water resources and groundwater resources The authors pay exceptional attention to water quality monitoring in agricultural urban catchments and water reservoirs More light into the water quality is required to assess water s physicochemical status accurately and plan suitable protection actions against recognized threats This book addresses the needs of professional engineers researchers policy planners decision makers stakeholders and anyone looking to learn more about the quality situation of water resources in Poland and other similar countries and regions

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