

Fao Irrigation Manual

Food and Agriculture Organization of the United Nations

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Irrigation design manual Food and Agriculture Organization of the United Nations, 2023-03-27 Introduction about what this manual is covering concentrating on Large Scale Irrigation LSI diversion barrage or weir intake with auxiliary structures and most common conveyance structures suitable for LSI A very brief overview of an approach to match water needs with water availability demand vs supply with references and links to Food and Agriculture Organization FAO literature that is covering the topic in detail A brief reference to the most common methods to obtain necessary hydrological parameters for IRR scheme design A very brief overview of the importance of knowledge of geological conditions and the investigation needed to obtain geotechnical design parameters including the most common geotechnical tests to obtain design parameters Planning phase considerations regarding diversion and intake structure discussing the role of the main components More technical discussion on each component of the weir or intake including formula and worked examples hydraulic and structural computations Conceptual hydraulic and structural considerations of main conveyance components with emphasis and more detail on most used components such as canals siphons aqueducts retaining walls etc A very brief overview of the approach to irrigation water management and Operations Maintenance O M with references and links to FAO literature that is covering the topic in detail Standard specification for irrigation construction material **Guidelines on irrigation** investment projects Food and Agriculture Organization of the United Nations, 2019-04-15 Irrigation has been and will continue to be an agricultural and rural investment priority Development of the irrigation sector faces multiple challenges including water scarcity and degradation competition over shared resources and the impact of climate change Innovations are needed to address these challenges as well as emerging needs and to promote productive equitable and sustainable water management These guidelines produced by an inter agency team highlight experiences and lessons learned from global irrigation investment operations. They introduce innovative approaches tools and references and provide practical quidance on how to incorporate or apply them at each stage of the investment project cycle The quidelines will be a useful resource for national and international professionals involved in irrigation investment operations Hydrometeorology Kevin Sene, 2009-12-12 This book describes recent developments in hydrometeorological forecasting techniques for a range of timescales from short term to seasonal and longer terms It conveniently brings together both meteorological and hydrological aspects in a single volume Handbook of Applied Hydrologic and Water Resources Engineering Raveendra Kumar Rai, Chandra Shekhar Prasad Ojha, Vijay P. Singh, 2025-02-26 The Handbook of Applied Hydrologic and Water Resources Engineering examines the planning and design of water supply systems flood control works drought mitigation measures navigation facilities and hydraulic structures as well as feasibility and environmental impact studies for various water related projects It is based on the experience gained through consultancy in dealing with various water resources issues and problems teaching and research It serves as a useful resource for graduate students and faculty

members in civil engineering agricultural engineering and water resources engineering as well as practicing engineers working in civil environmental and agricultural fields **Irrigation Manual** Food and Agriculture Organization of the United Nations, FAO Sub-Regional Office for East and Southern Africa, 2001 **Booker Tropical Soil Manual** J.R. Landon, 2014-01-27 First published in 1991 This is a more portable version of the Booker Tropical Soil Manual in which the format and weight of the first edition have been reduced whilst retaining as much as possible of the original clarity It also includes new content and appendices that cover the revised FAO publications on soil classification and on water quality for **Ground Water Manual** United States. Bureau of Reclamation, 1995 **Mapping System and Services for** agriculture Pressurized irrigation systems - MASSPRES Lamaddalena, N., Salman, M., Pek, E., Ahmad, W., Lebdi, F., Wahaj, R., 2024-05-22 FAO s Irrigation and Drainage Paper No Author 63 introduced the MASSCOTE methodology in 2007 tailored for modernizing large scale canal irrigation systems Author With global interest shifting towards pressurized pipe systems particularly in water scarce regions the need for a similar methodology became apparent Author Pressurized systems offer advantages like on demand irrigation reduced water wastage and environmental impact Author However they require complex management due to changing water demands Author To address this FAO developed the MASSPRES approach building on MASSCOTE s principles Author MASSPRES aims to assess and enhance the performance of pressurized irrigation schemes introducing steps like the Rapid Appraisal Procedure RAP for system mapping Author It offers innovative methods for evaluating pressures and discharges at farm hydrants under various operating conditions replacing earlier statistical analysis approaches Author MASSPRES incorporates indicators for capacity reliability distribution equity sensitivity to change and perturbation risks into user friendly software Author Practical examples from Egypt Italy Spain and Tunisia showcase its effectiveness Author As governments seek to improve water and food production amidst increasing water scarcity adopting technologies like pressurized irrigation becomes crucial Author MASSPRES provides a systematic framework for both upgrading existing systems and designing future ones addressing the complexities of managing pressurized irrigation efficiently Author *Technological and Modern Irrigation Environment in Egypt El-Sayed E.* Omran, Abdelazim M. Negm, 2020-03-26 This book gathers contributions on modern irrigation environments in Egypt from an environmental and agricultural perspective Written by leading experts in the field it discusses a wide variety of modern irrigation problems In the context of water resources management in Egypt one fundamental problem is the gap between growing water demand and limited supply As such improving irrigation systems and providing farmers with better control over water are crucial to increasing productivity. The book presents state of the art technologies and techniques that can be effectively used to address a range of problems in modern irrigation as well as the latest research advances Focusing on water sensing and information technologies automated irrigation technologies and improved irrigation efficiency It brings together a team of experts who share their personal experiences describe the various applications present recent advances

and discuss possibilities for interdisciplinary collaboration and implementing the techniques covered Field guide to **improve crop water productivity in small-scale agriculture** Food and Agriculture Organization of the United Nations ,2020-04-01 By 2050 the world's population will reach 9.1 billion which requires an increase of food production by 70 percent compared to 2005 FAO 2018 Nearly all the increase will occur in developing countries where agriculture plays a major role to provide employment income and to improve food security One of the major challenges of increasing food supply is the limited water resources Agriculture as the driver of freshwater exploitation has therefore to be transformed into more resource efficient production FAO 2003 The world's limited freshwater resources are potentially threatened by the expansion of agriculture Increasing the potential output per amount of water used is an appropriate practice to improve production efficiency while protecting water resources Therefore increasing the productivity of agricultural water use in a sustainable manner is essential to ultimately sustain the social and economic conditions of livelihoods Crop water productivity has grown into one of the major approaches to cope with water scarcity and advance crop water relation The number of conceptual frameworks and implications is ample but there is always a growing need to review the step by step approach beyond In this Field guide practical pathways are presented to provide a comprehensive approach for assessing and improving crop water productivity in small scale agriculture The Field guide draws lessons learned in three countries Burkina Faso Morocco and Uganda within the framework of FAO project Strengthening Agricultural Water Efficiency and Productivity at the African and Water management for sustainable Global Level funded by Swiss Agency for Development and Cooperation SDC agriculture Prof. T. Oweis, 2018-07-09 Comprehensive review of the range of water resources from groundwater and surface water to rainwater floodwater and waste water Discusses advances in irrigation techniques from surface irrigation to micro drip irrigation and fertigation Assesses methods for optimising agricultural water use in rainfed and other systems

Irrigation Theory And Practice - 2Nd Edn A M Michael, 2009-11 It is a comprehensive treatise on Water Resources Development and Irrigation Management For the last 30 years the book has enjoyed the status of an definitive textbook on the subject It has now been thoroughly revised and updated and thus substantially enlarged In addition to the wholesale revision of the existing chapters three new chapters have been added to the book namely Lift Irrigation Systems and their Design Water Requirement of Crops and Irrigation Management and Economic Evaluation of Irrigation Projects and Water Pricing Policy Sustainable Micro Irrigation Management for Trees and Vines Megh R. Goyal, 2014-08-19 This valuable book the third volume in the Research Advances in Sustainable Micro Irrigation series focuses on sustainable micro irrigation management for trees and vines It covers the principles as well as recent advances and applications of micro irrigation techniques Specialists throughout the world share their expertise on Automation of micro irrigation systems Service and maintenance of micro irrigation systems Evaluation of micro irrigation systems Scheduling of irrigation Using municipal wastewater for micro irrigation Micro jet irrigation and other systems The effect of potassium acid lime and other elements

Water Reuse for Irrigation Valentina Lazarova, Akica Bahri, 2004-12-28 This compilation provides guidelines that facilitate the successful planning and operation of water reuse projects Offering the information analysis and proven experience for agricultural and landscape irrigation it bridges the gap between fundamental science and relatively uncharted areas of economic institutional and liability issues It delivers a synthesis of information recently emerging in both science and in the practice of irrigation with reclaimed water The book compiles guidelines recommendations and codes of best practices from around the world for all types of recycled water uses and it examines recent concerns about adverse effects on plants groundwater and public health Irrigation Sandra Ricart, Antonio M. Rico, Jorge Olcina, 2019-12-18 The management of irrigation systems is context dependent socially constructed and technically uncertain An example of complex social ecological systems irrigation deals with both the ecosystem uncertainty and the implementation of new technological systems and water management options Issues to be addressed by irrigation systems at the global scale include water productivity and food security field operation and maintenance spate irrigation in climate change scenarios and vulnerability of environmental resources This book provides examples of some of the current challenges faced by irrigation systems from technical and social perspectives The book offers an easy to follow format focused on different case studies combining evidence based solutions for increasing resilience and reducing vulnerability of irrigation systems in semi arid and arid regions across the world Environmental Health Engineering in the Tropics Sandy Cairncross, Sir Richard Feachem, 2018-11-12 This fully updated third edition of the classic text widely cited as the most important and useful book for health engineering and disease prevention describes infectious diseases in tropical and developing countries and the effective measures that may be used against them The infections described include the diarrhoeal diseases the common gut worms Guinea worm schistosomiasis malaria Bancroftian filariasis and other mosquito borne infections The environmental interventions that receive most attention are domestic water supplies and improved excreta disposal Appropriate technology for these interventions and also their impact on infectious diseases are documented in detail This third edition includes new sections on arsenic in groundwater supplies and arsenic removal technologies and new material in most chapters including water supplies in developing countries and surface water drainage Measuring carbon and water footprints in pineapple value chains Food and Agriculture Organization of the United Nations, 2024-07-29 This technical guide on measuring carbon and water footprints was developed to support resilient and sustainable businesses in pineapple value chains By quantifying and reducing GHG emissions companies can become more resource efficient reduce costs enhance the resilience of their operations and contribute to climate change mitigation Quantifying water use and reducing pollution can help ensure that sufficient good quality water is available for both communities and businesses This technical guide aims to develop the capacity of users and empower them to make their own carbon and water footprint calculations independently It has two main objectives 1 introduce companies in the pineapple value chain to a methodology to estimate the carbon footprint of

their operations including production packing processing and transportation to port and 2 introduce companies in the pineapple value chain to a methodology to estimate the footprint of their direct water use from production to transportation to the port The guide was prepared by the Responsible Fruits Project with support from the Government of Germany It is closely linked to the project's technical guide Adapting to climate change in the tropical fruit industry a technical guide for pineapple producers and exporters Practices of Irrigation & On-farm Water Management: Volume 2 Hossain Ali,2011-01-11 The comprehensive and compact presentation in this book is the perfect format for a resource textbook for undergraduate students in the areas of Agricultural Engineering Biological Systems Engineering Bio Science Engineering Water Resource Engineering and Civil Environmental Engineering This book will also serve as a reference manual for researchers and extension workers in such diverse fields as agricultural engineering agronomy ecology hydrology and meteorology Water Harvesting in Sub-Saharan Africa William Critchley, John Gowing, 2013-01-04 Agriculture in Sub Saharan Africa is constrained by highly variable rainfall frequent drought and low water productivity There is an urgent need heightened by climate change for appropriate technologies to address this problem through managing and increasing the quantity of water on farmers fields water harvesting This book defines water harvesting as a set of approaches which occupy an intermediate position along the water management spectrum extending from in situ moisture conservation to irrigated agriculture They generally comprise small scale systems that induce collect store and make use of local surface runoff for agriculture The authors review development experience and set out the state of the art of water harvesting for crop production and other benefits in Sub Saharan Africa This includes an assessment of water harvesting schemes that were initiated two or three decades ago when interest was stimulated by the droughts of the 1970s and 1980s These provide lessons to promote sustainable development of dryland agriculture in the face of changing environmental conditions Case studies from eight countries across Sub Saharan Africa provide the evidence base Each follows a similar format and is based on assessments conducted in collaboration with in country partners with a focus on attempts to promote adoption of water harvesting both horizontally spread and vertically institutionalization Introductory cross cutting chapters as well as an analytical conclusion are also included **Drip Irrigation** Samuel Dasberg, Dani Or, 2013-04-17 The aim of this book is quite ambitious here we attempt to bridge the gap between soH physicists agronomists horticulturists hydraulic engineers de signers manufacturers and users of drip irrigation systems We believe that progress in drip irrigation hinges on the contributions of professionals made in all related disciplines and their cooperation The last decade has seen great development in the field of drip irrigation all though the drip irrigated area has not increased at the same rate as in the pre vious decade However our understanding of the processes involved in water and solute distribution and in plant response has increased vastly The tools for op timal design of drip systems have improved tremendously The main progress has been in the development and in the manufacture of sophisticated equipment not only improved types of emitters and laterals but also

auxiliary equipment such as new filtration systems controllers and sensors In this book we highlight the need to maintain a proper balance between the hydraulic design of drip systems and aspects of their management and maintenance Drip irrigation has a potential for high water use efficiency but many well designed systems suffer from bad management We are indebted to the late Eshel Bresler for his contribution to our under standing of water and solute movement under drip irrigation and its appli cation to system design Some parts of a previous publication entitled Drip irrigation manual authored by S Dasberg and E

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