Sprinkle And Trickle Irrigation

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Home Winemaking Jack Keller 2021-05-25 Simple Instructions and Superb Recipes from a Winemaking Legend With local breweries and wineries popping up everywhere, learning how to make wine is on everyone’s “to do” list. Utilize the guidance of home-winemaking legend Jack Keller. In the 1990s, Jack started one of the first (if not the first) wine blogs on the internet. His expertise is shared with you in Home Winemaking. It takes a fun, practical, step-by-step approach to making your own wine. The book begins with an introduction to winemaking, including basic principles, equipment needed, and exactly what to do. After the fundamentals are covered, you’re introduced to a variety of tested, proven, delicious recipes. More than just grape wines, you’ll learn how
To make wine out of everything from juices and concentrates to foraged ingredients such as berries and roots. There are even recipes that utilize dandelions and other unexpected ingredients. With 65 recipe options, you can expand your winemaking season indefinitely! Jack’s simple approach to the subject is perfect for beginners, but winemakers of every skill level will appreciate the recipes and information. So get this essential winemaking book, and get started. You’ll be sipping to your success in no time.

**Annual Report** Water Management Research Laboratory (U.S.) 1984

**Sprinkle and Trickle Irrigation** I. Amir 1991

**Biosalinity in Action: Bioproduction with Saline Water** D. Pasternak 1985-11-30 Historically, scientists and laymen have regarded salinity as a hazardous, detrimental phenomenon. This negative view was a principal reason for the lack of agricultural development of most arid and semi-arid zones of the world where the major sources of water for biological production are saline. The late Hugo Boyko was probably the first scientist in recent times to challenge this commonly held, pessimistic view of salinity. His research in Israel indicated that many plants can be irrigated with saline water, even at seawater strength, if they are in sandy soil - a technique that could open much barren land to agriculture. This new, even radical, approach to salinity was clearly enunciated in the book he edited and most appropriately entitled ‘Salinity and Aridity: New Approaches to Old Problems’ (1966). A decade later, three members of the United States National Science Foundation (NSF), Lewis Mayfield, James Aller and Oskar Zaborsky, formulated the ‘Biosaline Concept’; namely, that poor soils, high solar insolation and saline water, which prevail in arid lands, should be viewed as useful resources rather than as disadvantages, and that these resources can be used for non-traditional production of food, fuels and chemicals. The First International Workshop on Biosaline Research was convened at Kiawah Island, South Carolina, in 1977 by A. San Pietro.

**Modelling and Management of Irrigation System** Juan Antonio Rodriguez Daza 2020-04-30 Irrigation is becoming an activity of precision, where combining information collected from various sources is necessary to optimally manage resources. New management strategies, such as big data techniques, sensors, artificial intelligence, unmanned aerial vehicles (UAV), and new technologies in general, are becoming more relevant every day. As such, modeling techniques, both at the water distribution network...
AND THE FARM LEVELS, WILL BE ESSENTIAL TO GATHER INFORMATION FROM VARIOUS SOURCES AND OFFER USEFUL RECOMMENDATIONS FOR DECISION-MAKING PROCESSES. IN THIS BOOK, 10 HIGH QUALITY PAPERS WERE SELECTED THAT COVER A WIDE RANGE OF ISSUES THAT ARE RELEVANT TO THE DIFFERENT ASPECTS RELATED TO IRRIGATION MANAGEMENT: WATER SOURCE AND DISTRIBUTION NETWORK, PLOT IRRIGATION SYSTEMS, AND CROP WATER MANAGEMENT.

**Sustainable Micro Irrigation** Megh R. Goyal
2014-07-14 This new book, Principles and Practices of Sustainable Micro Irrigation, is the first in the new series on micro irrigation, which offers a vast amount of knowledge and techniques necessary to develop and manage a drip/trickle or micro irrigation system. Written by experienced scientists from various parts of the world, the chapters in this book offer basic principles, knowledge, and techniques of micro irrigation management, which are essential in designing, developing, and evaluating an agricultural irrigation management system. The methods and techniques have worldwide applicability to irrigation management in agriculture. The book includes coverage of many important topics in the field, including: • An historical review of micro irrigation • The current global status of the field and its potential • Basic principles and applications • New research on chemigation and fertigation • Technologies for specific crops, such as sugar cane • Irrigation software for micro irrigation design • Affordable and low-cost micro irrigation solutions for small farms and farms in developing countries • Micro irrigation design using Hydrocalc software This book is a must for those interested in irrigation planning and management, namely, researchers, scientists, educators, and students.

**Encyclopedia of Water Science (Print)** Bobby A. Stewart 2003-07-31 PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e-reference@taylorandfrancis.com

**Sprinkle & trickle irrigation** Keller 1990-12-06

Microirrigation for Crop Production 2006-09-28

Microirrigation has become the fastest growing segment of the irrigation industry worldwide and has the potential to increase the quality of food supply through improved water fertilizer efficiency. This book is meant to update the text “Trickle Irrigation, Design, Operation and Management”. This text offers the most current understanding of the management criteria needed to obtain maximum water and fertilization efficiency. * Presents a detailed explanation of system design, operation, and management specific to various types of MI systems * Analyzes proper use of irrigation technology and its...
**Biosalinity in Action: Bioproduction with Saline Water**

D. Pasternak 2012-12-06

Historically, scientists and laymen have regarded salinity as a hazardous, detrimental phenomenon. This negative view was a principal reason for the lack of agricultural development of most arid and semi-arid zones of the world where the major sources of water for biological production are saline. The late Hugo Boyko was probably the first scientist in recent times to challenge this commonly held, pessimistic view of salinity. His research in Israel indicated that many plants can be irrigated with saline water, even at seawater strength, if they are in sandy soil - a technique that could open much barren land to agriculture. This new, even radical, approach to salinity was clearly enunciated in the book he edited and most appropriately entitled ‘Salinity and Aridity: New Approaches to Old Problems’ (1966). A decade later, three members of the United States National Science Foundation (NSF), Lewis Mayfield, James Aller and Oskar Zaborsky, formulated the ‘Biosaline Concept’; namely, that poor soils, high solar insolation and saline water, which prevail in arid lands, should be viewed as useful resources rather than as disadvantages, and that these resources can be used for non-traditional production of food, fuels and chemicals. The First International Workshop on Biosaline Research was convened at Kiawah Island, South Carolina, in 1977 by A. San Pietro.

**Irrigation Fundamentals**

George H. Hargreaves 1998

IRRIGATION FUNDAMENTALS is a comprehensive text on the basic principles and practices of applied agricultural irrigation. Written over a period of more than 10 years, it is based on the authors’ extensive experience in farming, consulting, research, teaching, and other related agricultural activities. The book is for use by teachers of introductory courses in irrigation, farmers who have some basic technical knowledge, and for administrators who need a general understanding of irrigation as an aid for policy decisions in water resource development and planning. Various factors that influence crop yield and production including climate, fertility, water, drainage, and agronomic practices are addressed. The various irrigation methods such as border, basin, contour, furrow, sub, sprinkle, and drip or trickle are...
Described; and conditions are given for selection of the appropriate method to use. Recent developments and new technology are included herein when they have obvious practical applications, but for the most part the material presented in this book is based on well established principles and practices. Much of the content is very practical and much is essentially nontechnical. Nevertheless, some of the material covered in this book goes beyond the basic concepts in an attempt to better describe the relationships and techniques employed by irrigation scientists and irrigation engineers.

From the Preface: The future of the world depends very much on how we manage natural resources. Since the year 1900 there has been a ninefold increase in global carbon emissions from burning fossil fuels, and the world population has increased about 3.7 times in this century. Vast areas of forests have been destroyed, and irrigated lands now produce 40% of the food supply. Due to depletion of groundwater reserves and an increase in population, irrigated area per capita is declining. Consequently, the irrigation of additional alluvial lands is a strategic necessity for all of humankind. Much of the alluvial lands cannot be made productive without prior development of water resources through flood control, drainage, and irrigation. The production of electricity through hydropower and the production of alcohol fuel from irrigated crops, as has been practiced for many years in Brazil, can slow the increase in carbon emissions. Such diverse developments are typically not separable; rather, they must be considered as integral parts of a comprehensive development plan. The conservation of natural resources and increasing productivity of irrigated lands are also strategic necessities. Much of the current technology is highly transferable and crop yields can be significantly increased on lands already under irrigation. The authors have worked in many countries in connection with resource inventories, teaching, and the planning, development and use of irrigation as a tool for increasing production and providing employment. They have written extensively and have been honored for their achievements. They have considerable experience with everything from primitive low-technology irrigation developments to highly developed irrigation in the USA and in dozens of countries around the world. Both of the authors have dedicated their careers to teaching, research, and consulting in agricultural irrigation and water resources development and planning. It is their hope and expectation that this book will provide incentives for investigating and
Sprinkle and Trickle Irrigation


Chapt. 7 - Irrigation Scheduling: Introduction - Allowable Water Depletion - Monitoring Soil Water - Scheduling Irrigations - Rice Irrigation

Selected Water Resources Abstracts 1985

Drip, Trickle and Surge Irrigation Jane Potter Gates 1992

Simulation Models, GIS and Nonpoint-source Pollution David Holloway 1992

Smallholder Irrigation Technology Melvyn Kay 2001

This report is a view of irrigation technologies for smallholders in the context of improving rural livelihoods, especially in regard to the prospects for sub-Saharan Africa. The role of traditional technologies is evaluated and modern water distribution technologies, such as sprinkler and trickle irrigation, are reviewed. A broad
Classification has been made based on climate and the traditional agricultural background of the local people, which links technology options to specific places—to agricultural regions and to countries. "Irrigation Manual" Andreas Savva 2010 This manual (most of whose modules were originally published 2001-2002) aims at strengthening various aspects of irrigation development, mainly emphasizing the engineering, agronomic and economic aspects of smallholder irrigation, in view of the limited practical references available in this area. It also introduces the irrigation practitioner to the social, health and environmental aspects, providing a bridge between the various disciplines involved in irrigation development. - Publisher’s description.

Selected Water Resources Abstracts 1985

Salinity in Irrigation and Water Resources Dan Yaron 1981-02-01 The salinity problem in irrigation: an introductory review; evaluation and classification of water quality for irrigation; effects of salinity and soil water regime on crop yields; irrigation and soil salinity; fertilization and salinity; impact of irrigation on the quality of groundwater and river flows; economic evaluation of irrigation with saline water within the framework of farm economic impacts of regional economic effects of changes in irrigation water salinity within a river basin framework; the case of the Colorado River.

Encyclopedia of Environmental Management, Four Volume Set Sven Erik Jorgensen 2012-12-13 Winner of an Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about specific pollution and management issues. Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists, this four-volume set shares insights from more than 500 contributors—all experts in their fields. The encyclopedia provides basic knowledge for an integrated and ecologically sound management system. Nearly 400 alphabetical entries cover everything from air, soil, and water pollution to agriculture, energy, global pollution, toxic substances, and general pollution problems. Using a topical table of contents, readers can also search for entries according to the type of problem and the methodology. This allows readers to see the overall picture at a glance and find answers to the core questions: What is the pollution problem, and what
are its sources? What is the "big picture," or what background knowledge do we need? How can we diagnose the problem, both qualitatively and quantitatively, using monitoring and ecological models, indicators, and services? How can we solve the problem with environmental technology, ecotechnology, cleaner technology, and environmental legislation? How do we address the problem as part of an integrated management strategy? This accessible encyclopedia examines the entire spectrum of tools available for environmental management. An indispensable resource, it guides environmental managers to find the best possible solutions to the myriad pollution problems they face.

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Decision Makers and NGOs

Sprinkle and Trickle Irrigation I. Amir 1995

Guideline for Salinity Assessment, Mitigation and Adaptation Using Nuclear and Related Techniques
Mohammad Zaman 2018-11-28 This open access book is an outcome of the collaboration between the Soil and Water Management & Crop Nutrition Section, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency (IAEA), Vienna, Austria, and Dr. Shabbir A Shahid, Senior Salinity Management Expert, Freelancer based in United Arab Emirates. The objective of this book is to develop protocols for salinity and sodicity assessment and develop mitigation and adaptation measures to use saline and sodic soils sustainably. The focus is on important issues related to salinity and sodicity and to describe these in an easy and user friendly way. The information has been compiled from the latest published literature and from the authors’ publications specific to the subject matter. The book consists of six chapters. Chapter 1 introduces the terms salinity and sodicity and describes various salinity classification systems commonly used around the world. Chapter 2 reviews global distribution of salinization and socioeconomic aspects related to salinity and crop production. Chapters 3 covers comprehensively salinity and sodicity adaptation and mitigation options including physical, chemical, hydrological and biological methods. Chapter 4 discusses the efforts that have been made to demonstrate the development of soil salinity zones under different irrigation systems. Chapter 5 discusses the quality of irrigation water, boron toxicity and relative tolerance to boron, the effects of chlorides on crops. Chapter 6 introduces the role of nuclear techniques in saline agriculture.

South Carolina Irrigation Guide 1987

Evapotranspiracion Del Cultivo Food and Agriculture Organization of the United Nations 2006-08-30 En esta publicación se presenta una actualización del procedimiento para calcular la evapotranspiración de referencia y la evapotranspiración del cultivo a partir de datos meteorológicos y coeficientes de cultivo. El procedimiento, que fue presentado por primera vez en la publicación No 24 de la Serie de Riego y Drenaje de la FAO "Las Necesidades de Agua de los Cultivos" en 1977, permite estimar la cantidad de agua que un cultivo utiliza teniendo en cuenta el efecto del clima.
y las características del cultivo. La presente publicación incorpora avances en investigación y un procedimiento más preciso para determinar el uso de agua de los cultivos de acuerdo a las recomendaciones de un panel de expertos de alto nivel organizado por la FAO en Mayo de 1990. La primera parte de estas guías incluye procedimientos para determinar la evapotranspiración del cultivo de referencia de acuerdo con el método Penman-Monteith. A continuación se presentan procedimientos actualizados para estimar la evapotranspiración de diversos cultivos en diferentes etapas de desarrollo y condiciones ecológicas.

Encyclopedia of Water Science Stanley W. Trimble 2007-12-26 Filled with figures, images, and illustrations, Encyclopedia of Water Science, Second Edition provides effective concepts and procedures in environmental water science and engineering. It unveils a wide spectrum of design concepts, methods, and solutions for enhanced performance of water quality, treatment, conservation, and irrigation methods, as well as improved water efficiency in industrial, municipal, and agricultural programs. The second edition also includes greatly enhanced coverage of streams and lakes as well as many regional case studies. An International Team Addresses Important Issues The only source to provide full coverage of current debates in the field, the encyclopedia offers professional expertise on vital issues including: Current laws and regulations Irrigation management Environmental water economics Agroforestry Erosion control Nutrient best management practices Water sanitation Stream and lake morphology and processes Sharpen Your Skills — Meet Challenges Well-Armed A direct and reliable source for best practices in water handling, preservation, and recovery, the encyclopedia examines challenges in the provision of safe water supplies, guiding environmental professionals as they face a worldwide demand for sanitary and affordable water reserves. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail)
Sprinkle and Trickle Irrigation  
Jack Keller 2001-03

This book, first published in 1990 and reprinted here, is a comprehensive, state-of-the-art reference on the design principles and management techniques of two primary agricultural irrigation methods. The book presents a systematic approach to the optimal design, management and operation of these two systems. Focusing on the synthesis of the entire design process, the authors present the chapters in the sequence used to design systems with the analytical material presented and demonstrated in a concise manner. For the first time in any book, Sprinkle and Trickle Irrigation offers complete design strategies and presentations for all of the major types of sprinkle and trickle systems: - Periodic-move - Center-pivot - Traveling sprinkler - Linear-moving - Set sprinkler - Drip, spray and line-source Sequential sample calculations that involve the steps in the design of typical irrigation systems are used extensively. As the book progresses, these calculations become more comprehensive and are linked together to form complete design packages for the various types of pressurized systems. The book also presents a section on selecting pressurized irrigation systems, a review of soil-plant-water relationships, unique insight into pipeline hydraulics and economics, design specifications for fertilization and frost control, a glossary and an annotated bibliography of ASAE Standards for Pressurized Irrigation Systems. Sprinkle and Trickle Irrigation is an important practical reference for agricultural engineers, irrigation system designers and agricultural managers, as well as a vital text for professors and researchers in agricultural engineering. “Sprinkle and Trickle Irrigation presents beginning-to-end coverage of the processes and computations needed in the planning and design of sprinkle and trickle irrigation systems. The textbook is created for the thinking person who desires more than cookie-cutter recipes or simple, routine “rule-of-thumb” designs. Rather, the authors of Sprinkle and Trickle Irrigation present concise rationale and philosophy behind each computation formula, figure and table. They decouple “recommended” design parameters into underlying components that can be recoupled at the time of the design to apply to specific cases and situations. In the process, the reader gains visualization skills that allow him/her to peer “inside” an irrigation system, both hydraulically, economically, and operationally. Sprinkle and Trickle Irrigation is a classic design text and reference that should be on every practitioner’s desk. The chapters on center-pivot, linear-move and
Travelling sprinklers go well beyond other current texts. Solid and encompassing economics are infused into all design topics, including application, distribution, and pumping systems. I have lectured out of Sprinkle and Trickle Irrigation for twelve years at the university-senior level. I am confident that all students who completed this design course know not only how to design efficient and effective pressurized irrigation systems, but also know why they use the procedures that they use.” Dr. Richard G. Allen, Professor, University of Idaho

Sprinkle & Trickle Irrigation Gery P. Merkley 2004
Papers in ITJEMAST 11(7) 2020 International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplin ary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Drip Irrigation of Processing Tomatoes 2008
Quick Bibliography Series 1976
African Handbook of Climate Change Adaptation

Nicholas Oguge 2021-05-20 This open access book discusses current thinking and presents the main issues and challenges associated with climate change in Africa. It introduces evidences from studies and projects which show how climate change adaptation is being - and may continue to be successfully implemented in African countries. Thanks to its scope and wide range of themes surrounding climate change, the ambition is that this book will be a lead publication on the topic, which may be regularly updated and hence capture further works. Climate change is a major global challenge. However, some geographical regions are more severely affected than others. One of these regions is the African continent. Due to a combination of unfavourable socio-economic and meteorological conditions, African countries are particularly vulnerable to climate change and its impacts. The recently released IPCC special report “Global Warming of 1.5°C” outlines the fact that keeping global warming by the level of 1.5°C is possible, but also suggested that an increase by 2°C could lead to crises with crops (agriculture fed by rain could drop by 50% in some African countries by 2020) and livestock production, could damage water supplies and pose an additional threat to coastal areas. The 5th Assessment Report produced...
by IPCC predicts that wheat may disappear from Africa by 2080, and that maize—a staple—will fall significantly in southern Africa. Also, arid and semi-arid lands are likely to increase by up to 8%, with severe ramifications for livelihoods, poverty eradication and meeting the SDGs. Pursuing appropriate adaptation strategies is thus vital, in order to address the current and future challenges posed by a changing climate. It is against this background that the “African Handbook of Climate Change Adaptation” is being published. It contains papers prepared by scholars, representatives from social movements, practitioners and members of governmental agencies, undertaking research and/or executing climate change projects in Africa, and working with communities across the African continent. Encompassing over 100 contributions from across Africa, it is the most comprehensive publication on climate change adaptation in Africa ever produced.

Sprinkle Irrigation of Row and Field Crops B Hanson
This manual gives a practical, in-depth look at sprinkle irrigation in California as used on vegetable crops. This manual provides practical information on the design, management, and maintenance of the sprinkle irrigation methods commonly used in California for irrigating field and row crops, with a focus on hand-move, wheel line, and portable solid-set systems. Other systems, not commonly used in California are also discussed. Inside you’ll find discussion of management considerations such as when to irrigate, how much water to apply, and how to monitor soil moisture. You’ll also find an overview of uniformity and efficiency, sprinkle lateral design considerations, calculating pressure losses along laterals, factors affecting uniformity, effect of pressure spacing, and wind on catch can uniformity, as well as evaluating and improving sprinkle irrigation systems. A chapter on energy considerations covers pump selection, factors that affect pumping plant performance, pump performance tests, variable speed drives for pumping plants, and measures to consider to reduce energy use. Handy tables clearly illustrate key concepts to help you with decision making and trouble-shooting. Contains 46 illustrations and 28 tables, as well as 8 appendices of selected cover-crop coefficient relationships.

Hydronomic Zones for Developing Basin Water Conservation Strategies D. J. Molden 2001 In this report, the concept and procedures of hydronomic (hydro water + nomus management) zones are introduced. A set of six hydronomic zones are
developed and defined based on key differences between reaches or areas of river basins. These are the: Water Source Zone, Natural Recapture Zone, Regulated Recapture Zone, Stagnation Zone, Final Use Zone, and Environmentally Sensitive Zone. The zones are defined based on similar hydrological, geological and topographical conditions and the fate of water outflow from the zone. In addition, two conditions are defined which influence how water is managed: whether or not there is appreciable salinity or pollution loading; and whether or not groundwater that can be used for utilization or storage is present. Generic strategies for irrigation for four water management areas, the Natural Recapture, Regulated Recapture, Final Use, and Stagnation Zones, are presented. The Water Source Zone and Environmentally Sensitive Zone are discussed in terms of their overall significance in basin water use and management.

Modern and Traditional Irrigation Technologies in the Eastern Mediterranean Ozay Mehmet 2002 Modern and Traditional Irrigation Technologies in the Eastern Mediterranean Horticultural Reviews Jules Janick 2011-01-11 Horticultural Reviews presents state-of-the-art reviews on topics in horticultural science and technology covering both basic and applied research. Topics covered include the horticulture of fruits, vegetables, nut crops, and ornamentals. These review articles, written by world authorities, bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers.

Bibliography of Agriculture 1972 Landscape Irrigation Stephen W. Smith 1997 Irrigation methods and components Drawing techniques and presentation Sprinkler and drip irrigation methods and hardware Pipe characteristics and hydraulics Control systems CSI irrigation specifications

Innovations in Micro Irrigation Technology Megh R. Goyal 2016-03-30 The tenth and final volume in the series Research Advances in Sustainable Micro Irrigation, this valuable book focuses on new and recent innovations in technology, methods, and applications for micro irrigation. The book covers a wide variety of topics, including successes in micro irrigation in India, how new methods have helped the local economies in several areas, ways to enhance crop yield through new building programs, and new technology and systems. It looks at different aspects of these new innovations in micro irrigation, including economic impact, evaluation methods, bubbler
systems, success with particular crops, scheduling, and more. This book is sure to be a helpful resource for professionals and practitioners in the field as well as for students pursuing the field of agriculture.

**Handbook on Pressurized Irrigation Techniques**  
Andreas Phocaides 2007  
Increasing the efficiency of water use and enhancing agricultural water productivity at all levels of the production chains are becoming priorities in a growing number of countries. In particular, shifting to modern on-farm irrigation practices can contribute to a substantial increase in both water use efficiency and water productivity. The objective of this handbook is to provide a practical guide on the use of pressurised irrigation techniques to farmers, irrigation technicians, and extension workers in the field. In this second edition, the handbook has been considerably revises, including new chapters on low-cost drip irrigation and pipe distribution systems for smallholders. (Also available in French)