

MODERN IRRIGATION TECHNOLOGIES

FOR SMALLHOLDERS IN DEVELOPING COUNTRIES

Gez Cornish



PRACTICAL ACTION

PUBLICATION

Modern Irrigation Technologies For Smallholders In Developing Countries

Peipei Pang



Modern Irrigation Technologies For Smallholders In Developing Countries:

Modern Irrigation Technologies for Smallholders in Developing Countries Gez Cornish, 1998 Modern Irrigation Technologies reviews the experience of smallholders with irrigation technologies in a range of diverse conditions in many different countries Some people argue that modern irrigation technologies are the key to increased food production However projects introducing modern irrigation technologies in the developing world have often failed because the irrigation hardware which has been developed for high technology commercial agriculture cannot be easily adapted for the use of the smallholder The author identifies the pre conditions relating to water availability institutional support and economic opportunity that must be satisfied before smallholders in developing countries can adopt irrigation methods and benefit from them The circumstances in which modern technologies were introduced are identified and the relative success or otherwise of the initiatives are summarized The book also contains a practical review of the range of irrigation hardware that is available and indicates the types of equipment that are more likely to meet the requirements of the smallholder sector G A Cornish is an irrigation engineer with wide experience of technology transfer and staff training on irrigation schemes in sub Saharan Africa and south and southeast Asia He currently works at the Overseas Development Unit of HR Wallingford UK Modern Irrigation Technologies will be an invaluable guide to project workers planners and smallholders involved in planning and designing irrigation projects Smallholder Irrigation Technology Melvyn Kay, 2001-01-01 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 Review of Research and Development Needs in Irrigation and Drainage J. C. Skutsch, J. R. Rydzewski, 2001-01-01 The International Programme for Technology and Research in Irrigation and Drainage IPTRID was established in 1991 to promote technology and research in and by developing countries The purpose of this review is to highlight areas where research and development can improve performance and identify gaps in knowledge In the face of water shortage the problem of one set of water users cannot be considered in isolation from other users and hence there are a number of cross discipline issues that must also be addressed **International Agricultural Development**, 1998

Best practices and technologies for small scale agricultural water management in Ethiopia. Proceedings of a MoARD / MoWR / USAID / IWMI Symposium and Exhibition held at Ghion Hotel, Addis Ababa, Ethiopia, 7-9 March, 2006. Awulachew, Seleshi Bekele, Menker, M., Abesha, D., Atnafe, T., Wondimkun, Y., Policy Irrigation practices Drip irrigation Irrigation systems Water harvesting Irrigation management **Agricultural Development Policy** Roger D. Norton, Food and Agriculture Organization of the United Nations, 2004-01-01 Agricultural Development Policy Concepts and

Experiences prepared under the aegis of the Policy Assistance Division of FAO presents a fresh and comprehensive look at agricultural development policy. It provides a clear systematic review of important classes of policy issues in developing countries and discusses the emerging international consensus on viable approaches to the issues. Topics covered include agriculture's role in economic development, objectives and instruments of agricultural policy, linkages between macroeconomic and agricultural policies, sectoral policies related to agricultural prices, the role of government in the sector, gender issues in agriculture policies for the rural poor, land tenure policies, water management, agricultural finance policies, and agricultural technology development and dissemination. This book is suitable for use in university courses in agricultural and economic development, international development, natural resource management, and specialized topics in agriculture, and it serves as a valuable reference tool for policy makers and other professionals and researchers in the field of international agricultural development. A co-publication with John Wiley Sons Ltd UK. Routledge Handbook of Entrepreneurship in Developing Economies Colin C. Williams, Anjula Gurtoo, 2016-07-22. The Routledge Handbook of Entrepreneurship in Developing Economies is a landmark volume that offers a uniquely comprehensive overview of entrepreneurship in developing countries. Addressing the multi-faceted nature of entrepreneurship, chapters explore a vast range of subject areas including education, economic policy, gender, and the prevalence and nature of informal sector entrepreneurship. In order to understand the process of new venture creation in developing economies, what it means to be engaged in entrepreneurship in a developing world context must be addressed. This handbook does so by exploring the difficulties, risks, and rewards associated with being an entrepreneur and evaluates the impacts of the environment, relationships, performance, and policy dynamics on small and entrepreneurial firms in developing economies. The handbook brings together a unique collection of over forty international researchers who are all actively engaged in studying entrepreneurship in a developing world context. The chapters offer concise but detailed perspectives and explanations on key aspects of the subject across a diverse array of developing economies spanning Africa, Asia, Latin America, and Eastern Europe. In doing so, the chapters highlight the heterogeneity of entrepreneurship in developed economies and contribute to the on-going policy discourses for managing and promoting entrepreneurial growth in the developing world. The book will be of great interest to scholars, students, and policymakers in the areas of development, economics, business, and management, public policy, and development studies. [] **With Design: Reinventing Design Modes** Gerhard Bruyns, Huaxin Wei, 2022-11-05. This collection stems from the International Association of Societies of Design Research (IASDR) congress in 2021, promoting the research of design in its many fields of application. Today's design finds itself at a critical moment where the conventional modes of doing, thinking, and application are increasingly challenged by the troubled ideology of globalisation, climate change, migration patterns, and the rapid restructuring of locally driven manufacturing sectors. The volume presents a selection of papers on state-of-the-art design research work. As rapid technological development has been

pushing and breaking new ground in society the broad field of design is facing many unprecedented changes In combination with the environmental cultural technological and crucially pandemic transitions design at large is called to fundamentally alter its modes of practice Beyond the conventional models of conducting research or developing solutions to wicked problems the recoupling of design with different modes should be seen as an expression to embrace other capacities of thinking criticisms and productions This selection of proceedings papers delivers the latest insights into design from a multitude of perspectives as reflected in the eight thematic modes of the congress i e social making business critical historical projective impact pandemic and alternative with design modes The book benefits design researchers from both academia and industry who are interested in the latest design research results as well as in innovative design research methods In presenting an interesting corpus of design case studies as well as studies of design impact this comprehensive collection is of relevance to design theorists and students as well as scholars in related fields seeking to understand how design plays a critical role in their respective domains *New Directions for Smallholder Agriculture* Peter B. R.

Hazell,Atiqur Rahman,2014-03-06 The majority of the poor and hungry people in the world live on small farms and struggle to subsist on too little land with low input low yield technologies At the same time many other smallholders are successfully intensifying and succeeding as farm businesses often in combination with diversification into off farm sources of income This book examines the growing divergence between subsistence and business oriented small farms and discusses how this divergence has been impacted by population growth trends in farm size distribution urbanization off farm income diversification and the globalization of agricultural value chains It finds that policy makers need to differentiate more sharply between different types of small farms than they did in the past both in terms of their potential contributions towards achieving national economic growth poverty alleviation and food security goals and the types of assistance they need The book distinguishes between smallholders that are business oriented subsistence oriented and at various stages of transition to the non farm economy and discusses strategies appropriate for assisting each type The book draws on a wealth of recent experience at IFAD and elsewhere to help identify best practice approaches **African Farming and Food Processing**

,1997 *Climate Vulnerability, Volume 4* ,2013-06-14 *Climate Vulnerability Volume 4* **Sustainable intensification of smallholder farming systems in Sub-Saharan Africa and South Asia** Benjamin Karikari,Francis Tetteh,Fred

Kizito,Folorunso Mathew Akinseye,Christopher Mutungi,Bekele Hundie Kotu,Terry Ansah,2024-04-17 [Agricultural Development Policy](#) Roger D. Norton,2005-08-05 Prepared under the aegis of the Food and Agriculture Organization of the United Nations FAO this text presents a fresh and comprehensive look at agricultural development policy It provides a clear systematic review of important classes of policy issues in developing countries and discusses the emerging international consensus on viable approaches to the issues The text is unique in its coverage and depth and it Summarises hundreds of references on agricultural development policies Cites policy experiences and applied studies in more than 70 countries

Provides guidance for policy makers giving examples of successes and failures Reviews issues related to the formulation of strategies and the requirements for making them successful Develops the conceptual foundations and illustrates policies that have worked and some that have not with explanations Topics covered include agriculture's role in economic development the objectives and strategies of agricultural policy linkages between macroeconomic and agricultural policy policies for the agricultural financial system and agricultural technology development Upper level undergraduates taking courses in Economic Development and International Development and graduates taking courses in Agricultural Development International and Economic Development Natural Resource Management and specialised topics in agriculture will find this text of great interest It also serves as a reference for professionals and researchers in the field of International Development

Technological and Institutional Innovations for Marginalized Smallholders in Agricultural Development Franz W.

Gatzweiler, Joachim von Braun, 2016-02-19 The aim of the book is to present contributions in theory policy and practice to the science and policy of sustainable intensification by means of technological and institutional innovations in agriculture The research insights re from Sub Saharan Africa and South Asia The purpose of this book is to be a reference for students scholars and practitioners in the field of science and policy for understanding and identifying agricultural productivity growth potentials in marginalized areas

Potential Use of Solar Energy and Emerging Technologies in Micro Irrigation

Megh R. Goyal, Manoj K. Ghosal, 2016-12-01 This new book the fourth volume in the Innovations and Challenges in Micro Irrigation book series examines the potential of solar energy and other emerging energy technologies in micro irrigation to create sustainable energy sources The authors discuss a variety of innovative micro irrigation system designs with a special focus on solar energy and photovoltaic PV energy

Opportunities for private sector participation in agricultural water development and management F. W. T. Penning de Vries, H. Sally, A. Inocencio, 2005

This study examines ways to increase food security reduce poverty and achieve economic growth in sub Saharan Africa with water through increased participation of the private sector and publicprivate partnerships This report is a summary of the findings from a review of the literature and critical analysis thereof The private sector includes all farmers farm households and agriculture based micro small and medium enterprises MSMEs That is all entities involved in crop livestock and fish production and marketing in post harvest activities and food processing and in supply chains for the goods services and information used in the process The study examines different types of agricultural water development and management These include smallholder subsistence farming cultivation of profit oriented high value crops and peri urban agriculture as well as successful examples of private sector involvement in various functions or processes including planning design construction operations and maintenance The spotlight on water does not imply that other factors such as off farm employment market development and education are unimportant

The sustainable intensification of smallholder farming systems Dr Dominik Klauser, Dr Mike

Robinson, 2020-11-24 Strong coverage of improving smallholder access to key inputs from seeds to nutrition and pest

management Reviews ways of improving public and private sector extension support as well as market access for smallholders Chapter authors mix research expertise and practical experience of successful project implementation on the ground

Smallholders and family farms in the Republic of Moldova Food and Agriculture Organization of the United Nations ,2020-09-01 The background for conducting country studies on the challenges needs and constraints of smallholders and family farms in seven countries has been a wish to further strengthen the Regional Initiative and develop the initiative towards a stronger programmatic approach at both the regional and country levels To provide support to smallholders and family farms there has been a need to develop a better understanding and knowledge platform of the main challenges needs and constraints of smallholders and family farms in the specific country context Even though many of the challenges are the same throughout the region there are still significant variations among the countries it is important to recognize and understand these variations when designing support to smallholders and family farms in each specific country It has been the objectives of the country studies first to analyze the development trend and current state of smallholders and family farms in the specific country second to study the current political priorities and policies affecting smallholders and family farms and finally based on the conclusions made to provide recommendations mainly at the policy level on how to further support the development of commercial family farms and at the same time ensure in general inclusive growth improved rural livelihood for women and men and the reduction of rural poverty for all It is hoped that each country study will not only be relevant for FAO but also for governments donors and other international organizations when formulating policy and preparing programmes

Microirrigation H. P. Singh,2001 Summary Contributed articles

[Integrating Indigenous and Scientific Knowledge for Sustainable Food Systems in Africa](#) Saa Dittoh,Anna Bon,Hans Akkermans,2025-04-25 This open access book presents a novel approach to food security research SDG 2 Zero Hunger by integrating indigenous and scientific knowledge Through extensive field based research in Burkina Faso Ghana Kenya Mali and South Africa it explores the impact of merging traditional practices and local knowledge with scientific methods Through field studies the book shows the value of local knowledge and community led innovations in combating hunger achieving food security and enhancing nutrition sustainably and food sovereignty Drawing on decades of research in rural Africa the authors introduce the Plug In Principle a theory for integrating indigenous and modern knowledge systems to foster sustainable agricultural practices and enriched food ecosystems in Africa The Plug In Principle advocates that advancements in science and technology should enhance rather than replace existing indigenous knowledge This principle emerged from the failures of many development interventions where attempts at replacement often led to challenges and failures In agriculture for instance interventions in mechanization soil amendments seed and breed improvements and extension services have seldom succeeded due to a lack of integration with existing practices The Plug In Principle emphasizes that effective knowledge integration hinges on a deep understanding and appreciation of prevailing systems By designing interventions that seamlessly plug in to existing

technologies we can ensure the co creation of effective solutions to the challenges we face This book is a testament to the potential of collaborative innovation in fostering sustainable development Development workers policymakers researchers students and donor agencies in agriculture and other development areas will find this volume invaluable Additionally scholars focused on decolonization and indigenous knowledge in the Global South will uncover insightful case studies and analyses

Fuel your quest for knowledge with is thought-provoking masterpiece, **Modern Irrigation Technologies For Smallholders In Developing Countries** . This educational ebook, conveniently sized in PDF (PDF Size: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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