



# Flood Based Farming Systems In East Africa Spate Irrigation

**Philip Tow, Ian Cooper, Ian  
Partridge, Colin Birch**



## **Flood Based Farming Systems In East Africa Spate Irrigation:**

*Proceedings of the Workshop on Flood-based Farming for Food Security and Adaption to Climate Change in Ethiopia: Potential and Challenges, Adama, Ethiopia, 30-31 October 2013* Erkossa, Teklu,Hagos, Fitsum,Lefore, Nicole,2014-05-30

**Integrated flood management for resilient agrifood systems and rural development** Food and Agriculture Organization of the United Nations,2023-12-07 This report presents a perspective on the impacts of flooding in rural areas and how to address them in an integrated way that delivers multiple long term benefits for people food water and economic security and nature The challenges faced by rural communities are illustrated and a strategic approach to flood management is presented The approach advocated is based on a paradigm of planning that connects the short and long term seeks to simultaneously manage flood risk to people their agrifood systems related livelihoods and the economy while promoting the positive and necessary role floods play in maintaining productive agriculture and aquaculture and ecosystem health In doing so the approach embeds the concepts of disaster risk reduction DRR that are integral to the Sendai Framework for Disaster Risk Reduction 2015 2030 which contributes to the 2030 Agenda for Sustainable Development and the crucial need to progress at pace towards the Sustainable Development Goals The report highlights how flood management practice has evolved throughout history largely in response to flood events This heuristic approach has yielded some important advances in both policy and planning Central to this has been the shift from a reactive emergency based response towards a proactive approach aimed at reducing and managing flood risks There is however more to do Recognizing that rural areas have received disproportionately less attention and current approaches to planning and management are less well established in rural areas compared to urban areas Asian Development Bank 2018 a small number of recommendations are set to help make more rapid progress towards flood resilience in rural settings *Water-smart agriculture in East Africa* Nicol, A.,Langan, S.,Victor, M.,Gonsalves, J.,2015-03-01 *Water management for sustainable 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 **Land Management and Food/Nutrition (In)Security In Mixed Farming Systems** Ermias Teferi Demessie,Karuturi Venkata Suryabhagavan,Tibebu Kassawmar,Matebu Tadesse,Abebe Shiferaw Dakka,Gizaw Desta,Mirgissa Kaba,2025-03-21 The need to increase agricultural productivity due to the high demand of animal feeding and to provide food for growing global population has placed intense pressure on the agriculture landscape causing land degradation This issue has heavy consequences on smallholder farmers which constitute the majority of the global agricultural community making the access to sustainable nutrition ambitious for many communities Reducing land degradation understanding the process causes and effects and improving the management of natural resources became among the targets of Sustainable Development Goals

Nowadays the implementation of context specific and innovative land management practices is a widely recognized solutions to ending land degradation Hurni et al 2010 Despite this it has never been implemented as widely as intended and little is known about their effectiveness in terms of restoring landscapes and boosting food and nutrition security The lack of long term observations and actions contributed to the limited knowledge available about the role of land management practices in food security To this end assessing and documenting the role and effectiveness of land management practices in food security is a relevant and critical research issue that requires appropriate attention This Research Topic aims to collect articles to address i best land management practices in effectively transforming degraded landscapes to food producing landscapes and ii documenting success and failure stories of land management practices in addressing food and nutrition security

*Rainwater-Smart Agriculture in Arid and Semi-Arid Areas* Walter Leal Filho, Josep de Trincheria Gomez, 2017-12-28 This book introduces state of the art approaches methods and research focusing on smart management of rainwater In addition it provides an overview of projects from across the world illustrating how rainwater smart management has been implemented in drylands Focusing on the scientific perspective it demonstrates how rural dryland agriculture can be improved It also documents the wealth of rainwater smart know how available today and replicates and transfers results to other countries and regions to encourage cross sector interactions among various stakeholders such as practitioners from governmental and public organisations policy and decision makers and teaching staff from academic scientific institutions The contributors showcase vital lessons learned from research field projects and best practice examples They address the integrated use of rainwater harvesting management with landscape restoration practices and water and climate smart agriculture for food security and poverty alleviation in arid and semi arid areas Original research combined with the contributors synthetic approach lays a foundation for new concepts and ideas Through case studies and research reports the book discusses all the relevant issues necessary for the comprehensive analysis and successful implementation of the technologies in rainwater management Highlighting the working principles and technical recommendations with regard to cost efficient rainwater smart solutions it is of interest to practitioners It is also a valuable resource for academic specialists professionals and students since many development agencies are funding rainwater harvesting for irrigation purposes

*Rainfed Farming Systems* Philip Tow, Ian Cooper, Ian Partridge, Colin Birch, 2011-09-16 While a good grasp of the many separate aspects of agriculture is important it is equally essential for all those involved in agriculture to understand the functioning of the farming system as a whole and how it can be best managed It is necessary to re assess and understand rain fed farming systems around the world and to find ways to improve the selection design and operation of such systems for long term productivity profitability and sustainability The components of the system must operate together efficiently yet many of the relationships and interactions are not clearly understood Appreciation of these matters and how they are affected by external influences or inputs are important for decision making and for achieving desirable outcomes for the farm

as a whole This book analyses common rain fed farming systems and defines the principles and practices important to their effective functioning and management

**Overview of water and soil nutrient management under smallholder rain-fed agriculture in East Africa**

Mati, Bancy Mbura,2006-05-02 Agricultural extension Agroforestry Farmers associations Non governmental organizations Fertilizers Soil fertility Water storage Pitcher irrigation Spate irrigation Sugarcane Bunds Cropping systems Ridging Tillage Terraces Water harvesting Water conservation Soil conservation

**East Africa Animal Feed Action Plan** Food and Agriculture Organization of the United Nations,Intergovernmental Authority on Development,2019-09-10 The regional animal feed action plan was formulated through a consultative and participatory process building on experiences and lessons learnt by wide spectrum of key stakeholders in public and private sectors notably policy makers traders pastoralist and farmers organizations civil society NGOs and the development partners It builds on the earlier consultative experience sharing workshop on feed by USAID ILRI IGAD and FAO in the region The plan provides broad opportunities for partnerships with producers governments and private sector development and humanitarian organizations at the national and regional levels It provides a guided approach to collectively tackle the problems of animal feed and pave the way for sustainable production of quality animals and products while improving competitiveness profitability and ensuring sustainable feed resource management for the entire Eastern African region The aim of the action plan is to provide guidelines to communities countries private sector and livestock stakeholders to optimally utilize the available feed resources in East Africa to increase the supply as well as improve the quality of animals products and by products and to maximize the economic and social benefits of the livestock sector

The Soils of Ethiopia Sheleme Beyene,Alemayehu Regassa,Bipin B. Mishra,Mitiku Haile,2023-01-05 This book addresses Ethiopia s extremely rich soil diversity and resources which have developed under various climatic conditions Featuring contributions by a group of respected experts on Ethiopian soils and agriculture it provides comprehensive information on the management approaches needed for sustainable soil utilization and conservation under such conditions and the attendant challenges It offers a valuable resource for anyone interested in soils and agriculture in Ethiopia but also in other African countries with similar climatic conditions The book contains 13 chapters which illustrate the long history of knowledge and soil research climate geology and geomorphology soil forming factors processes and classification major soil types their properties fertility status and management land evaluation and land use planning soils and society industry and future emerging soil issues

**The State of Food and Agriculture 2020** Food and Agriculture Organization of the United Nations ,2020-11-26 Intensifying water constraints threaten food security and nutrition Thus urgent action is needed to make water use in agriculture more sustainable and equitable Irrigated agriculture remains by far the largest user of freshwater but scarcity of freshwater is a growing problem owing to increasing demand and competition for freshwater resources At the same time rainfed agriculture is facing increasing precipitation variability driven by climate change These trends will exacerbate disputes among water

users and inequality in access to water especially for small scale farmers the rural poor and other vulnerable populations The State of Food and Agriculture 2020 presents new estimates on the pervasiveness of water scarcity in irrigated agriculture and of water shortages in rainfed agriculture as well as on the number of people affected It finds major differences across countries and also substantial spatial variation within countries This evidence informs a discussion of how countries may determine appropriate policies and interventions depending on the nature and magnitude of the problem but also on other factors such as the type of agricultural production system and countries level of development and their political structures Based on this the publication provides guidance on how countries can prioritize policies and interventions to overcome water constraints in agriculture while ensuring efficient sustainable and equitable access to water Strategies to Cope with Risks of Uncertain Water Supply in Spate Irrigation Systems Eiman Fadul Bashir,2020-02-07 Flood based irrigation in particular spat irrigation relies on variable flood scenarios occurring every year Management of spat flood for spat irrigation must cope with the variability and uncertainty of water supply Coping with water supply risks is often the only way to harness the opportunities for a productive use of water in arid environment Integrating and strengthening community responses into irrigation policies and improvement plans could ensure sustainable and productive spat irrigated systems that can achieve food security for the poor population This research analyses and evaluates risks and coping strategies developed by farming communities in the Gash spat irrigation system in Sudan Eastern Africa The research has synthesized different coping strategies developed by farmers water user associations and water managers to cope with low high and untimely flood risks The research provide different frameworks that can assist with the identification of risk sources pathways and propagation as well as evaluation of locally developed strategies at field secondary and intake systems The findings of this study contribute to scarce knowledge on spat irrigation system and provide scientifically sound and evidence based insights to aid informed policy and decision making to improve productivity and sustainability of the spat irrigation systems **Irrigation Principles. Theory and Application** Raphael Muli Wambua,2019-04-09 Research Paper postgraduate from the year 2019 in the subject Agrarian Studies grade 1 0 Egerton University language English abstract Irrigation Principles Theory and Application is a text book intended for students and instructors in University or higher education for Certificate Diploma and Degree students in a number of courses such as Irrigation and Drainage Agricultural Engineering General Agriculture Agricultural Education and Extension Horticulture Water Resources Engineering applied irrigation engineering and other allied professions The content of the text book has been presented in a lucid style arranged in coherent sequence that adheres to University and higher education curriculum This makes the book suitable for relaxed reading For the calculations worked examples have been solved in a way of illustration and details are presented Each chapter is concluded with the examples and review questions for the readers to expound on subject knowledge For the purpose of improvement any criticism from students trainers and practitioners will be thankfully received by the author

## **Community-based Water Law and Water Resource Management Reform in Developing Countries** Mark

Giordano, John Butterworth, 2007-01-01 The fifteen chapters of this book analyse the living community based water laws in Africa Latin America and Asia and critically examine the interface between community based water laws formal water laws and a variety of other key institutional ingredients of on going water resources management reform Handbook of Water Harvesting and Conservation Saeid Eslamian, Faezeh Eslamian, 2021-03-01 Water harvesting is gaining more and more recognition as a sustainable and resilient water supply options It is economically viable socially compatible and environmentally friendly Water harvesting has proven to be a robust solution to overcome or reduce water shortages all over the world It is important to understand how to apply this practice in a sustainable and effective way to make full use of its potential in a world increasingly threatened by water scarcity The Handbook of Water Harvesting and Conservation Basic Concepts and Fundamentals is the most comprehensive up to date and applied handbook on water harvesting and conservation yet published The book s 30 chapters written by 84 outstanding international experts from approximately 20 selected countries faced by drought explore critique and develop concepts and systems for water harvesting The editors bring together many perspectives into a synthesis that is both academically based and practical in its potential applications The Handbook of Water Harvesting and Conservation Basic Concepts and Fundamentals is an important tool for education research and technical works in the areas of soil water and watershed management and is highly useful for drought strategy planning flood management and developing techniques to adapt to climate change in urban agricultural forest and rangeland areas *Reengaging in Agricultural Water Management* , 2006-01-01 In order to face the challenge of disappointing returns on public investment in irrigation and drainage new solutions have emerged These solutions are based on widely available technology and new management and governance options The main message of Re engaging in Agricultural Water Management is that the irrigation and drainage sector should not continue to be dealt with as a standalone sector but should be integrated into a broader perspective one that embraces the objectives of productivity growth poverty reduction natural resources management and environmental protection

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## **Indigenous**

**Agricultural Revolution** Paul Richards, 2023-07-26 Originally published in 1985 this book argues forcefully and practically for new relationship between science and the small farmer It advocates scientific research seeking out changes which are already taking place within the smallholder farming sector and building on local initiatives Drawing on his experience of West Africa the author demonstrates that many of the most successful innovations in food crop production during the 20th century have indigenous roots and that there should therefore be less emphasis on teaching farmers how to farm and more emphasis on how to foster and support local adaptation and inventiveness This book will be of interest to students of agriculture environmental studies and rural development as well as those working with relief and development agencies

**The State of the World's Land and Water Resources for Food and Agriculture** Food and Agriculture Organization of the United Nations, 2013-06-17 The State of the World's Land and Water Resources for Food and Agriculture is FAO's first flagship publication on the global status of land and water resources. It is an advocacy report to be published every three to five years and targeted at senior level decision makers in agriculture as well as in other sectors. SOLAW is aimed at sensitizing its target audience on the status of land resources at global and regional levels and FAO's viewpoint on appropriate recommendations for policy formulation. SOLAW focuses on these key dimensions of analysis: i) quantity/quality of land and water resources; ii) the rate of use and sustainable management of these resources in the context of relevant socio-economic driving factors and concerns including food security and poverty and climate change. This is the first time that a global baseline status report on land and water resources has been made. It is based on several global spatial databases e.g. land suitability for agriculture, land use and management, land and water degradation and depletion for which FAO is the world recognized data source. Topical and emerging issues on land and water are dealt with in an integrated rather than sectoral manner. The implications of the status and trends are used to advocate remedial interventions which are tailored to major farming systems within different geographic regions.

**Supplemental Irrigation in the Near East and North Africa** Eugene R. Perrier, Abdul Bari Salkini, 2012-12-06 This book is the product of an ICARDA project to define supplemental irrigation in the Near East and North Africa. In cooperation with the Food and Agriculture Organization of the United Nations, FAO a meeting was held in Rabat, Morocco on 7-9 December 1987 entitled Regional Consultation on Supplemental Irrigation. Specialists from 11 different countries were brought together to discuss priorities for supplemental irrigation within their specific regions. The participants were asked to focus on developing an information base using both primary data results of surveys administered to district level agricultural personnel and secondary data sources with a particular interest in the application of state-of-the-art knowledge and technology to the problems of supplemental irrigation. The authors have willingly and thankfully responded to the suggestions and criticisms of Ms Kate Ward, Institute of Irrigation Studies, Department of Civil Engineering, University of Southampton, U.K. who accepted the soporific position of Review Editor and performed miracles. Chapter 2 and parts of chapters 15 and 16 are a partial rendering of a forthcoming book on systems analysis by Janice R. Perrier. The authors recognize the inclusion of this material which outlines the basic philosophical perspective of supplemental irrigation as utilized in the book. The assistance of Mr Maurice Saade, Agricultural Economist is greatly appreciated for the understanding of Chapter 14. The section on the phenology of cereals near the end of chapter 4 was written by Mr



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diversity the variety of ecosystems that are present in the biosphere

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