



WATER HARVESTING IN SUB-SAHARAN AFRICA

Edited by William Critchley and John Gowing



Water Harvesting In Sub Saharan Africa

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Water Harvesting In Sub Saharan Africa:

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

Innovative approaches to agricultural water use for improving food security in Sub-Saharan Africa A. Inocencio, H. Sally, D. J. Merrey, 2003 This paper provides an overview of innovative options for developing and using water for food production in sub Saharan Africa SSA in light of the growing scarcity and competition for water resources These options include rainwater harvesting selective development of wetlands for agriculture exploitation of shallow groundwater and recycling urban waste The options are largely based on low cost individualized technologies which lend themselves to private sector promotion Water demand management approaches are also discussed

Water Harvesting for Plant Production Chris Reij, 1988 This report examines specific water harvesting systems in sub Saharan Africa Case studies of thirteen systems from six different countries are presented and conclusions are drawn under the headings of techniques and engineering production socio economic and project management aspects A number of projects throughout the region set up in the 1980 s have included water harvesting components However there is a wide range of techniques approaches and costs and the impact of these projects varies considerably The majority of systems introduced are for crop production but there are examples of water harvesting to establish trees in dry areas and for rehabilitation of grazing land also The need for voluntary participation in all stages of project development is highlighted It is evident that without this participation there is little or no chance of widespread adoption The importance of indigenous systems of water harvesting and their potential role as a base for planning is stressed in the conclusions

OPPORTUNITIES FOR EXPANDING WATER HARVESTING IN SUB-SAHARAN AFRICA Johan A. Van Dijk,

Opportunities for Expanding Water Harvesting in Sub-Saharan Africa Johannes Petrus van Dijk, Mohamed Hassan Ahmed, 1993

Water Harvesting for Plant Production Chris Reij, Paul Mulder, Louis Begemann, 1988 This report examines specific water harvesting systems in sub Saharan Africa Case studies of thirteen systems from six different countries are presented and conclusions are drawn under the headings of techniques and engineering production socio economic and project management aspects A number of projects throughout the region set up in the 1980 s have included water harvesting components However there is a wide range of techniques approaches and costs and the impact of these projects varies considerably The majority of systems introduced are for crop production but there are examples of water harvesting to establish trees in dry areas and for rehabilitation of grazing land also The need for voluntary participation in all stages of project development is highlighted It is evident that without this participation there is little or no chance of widespread adoption The importance of indigenous systems of water harvesting and their potential role as a base for planning is stressed in the conclusions

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

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

Innovative Water Resource Use and Management for Poverty Reduction in Sub-Saharan Africa: An Anthology Paulos Chanie, 2014-04-02 Like in many parts of the world water resources in sub Saharan Africa SSA have been pivotal for human survival economic growth social development and practicing certain religion and cultural ethos However in spite of the intrinsic values of water its use and management in sub Saharan Africa has not been without limitations The demand for water resources is increasing mainly due to rapid population growth industrialization and urbanization and dealing with water related issues has been complex and challenging for sustainable growth Whilst there are various efforts by national governments non government organizations and communities to effectively and efficiently utilize and manage water resources there are few comprehensive studies in sub Saharan Africa that show the impact of the efforts on poverty reduction Although certain reports indicate that many SSA countries lack clear vision on how water use can be harnessed with pro poor growth and how poor communities can be capacitated to use water for poverty reduction there are little exhaustive studies that clearly show familiar and innovative water use and management interventions followed by communities national governments and other stakeholders and demonstrate the challenges and successes of the same Cognizant of the knowledge gap in 2012 OSSREA launched a research project on ordinary and innovative water use and management patterns and practices in SSA with a view to generate new knowledge on unexploited opportunities that could enhance the contribution of water resources to poverty reduction This anthology documents various issues including water use and management in agriculture especially in irrigation projects in Ethiopia Kenya Uganda and Zimbabwe water harvesting in Kenya and Uganda the role of local water use institutions in Ethiopia and water source maintenance and protection in Uganda

Water Harvesting for Plant Production: Case studies and conclusions for sub-Saharan Africa Chris Reij, **Soil and Water Conservation in Sub-Saharan Africa**, 1992 **Proposal for Integrated Fishculture and Water-harvesting in Sub-Saharan Africa** Africa Tomorrow, International Center for Aquaculture, Desert Research Institute, 1987* **Water Management, Food Security and Sustainable Agriculture in Developing Economies** M. Dinesh Kumar, M. V. K. Sivamohan, Nitin Bassi, 2013 This book addresses strategies for food security and sustainable agriculture in developing economies The book focuses primarily on India a fast developing economy whose

natural resource base comprising land and water supporting agricultural production is not only under enormous stress but also complex and not amenable to a uniform strategy. It critically reviews issues which continue to dominate the debate on water management for agricultural and food production. The book examines the validity of the claim that large water resources projects cause serious social and environmental damages using global and national datasets. The authors examine claims that the future of Indian agriculture is in rain fed farming supported by small water harvesting. They question whether water abundant eastern India could become the granary of India through a groundwater revolution with the right policy inputs. In the process they look at the less researched aspect of the food security challenge which is land scarcity in eastern India. The book analyzes the physical economic and social impacts of large scale adoption of micro irrigation systems using a farming system approach for north Gujarat. Through an economic valuation of the multiple use benefits from tank systems in western Orissa it shows how value of water from large public irrigation systems could be enhanced. The book also looks at the reasons for the limited success in bringing about the much needed institutional reforms in canal irrigation for securing higher productivity and equity using case studies of Gujarat, Madhya Pradesh and Maharashtra. Finally it addresses how other countries in the developing world particularly Sub Saharan Africa could learn from Indian experience.

Some Lessons from Water Harvesting in Sub-Saharan Africa Will Critchley, World Bank. Eastern and Southern Africa Projects Department, 1987

Sustainable Water Management in Smallholder Farming Sara Finley, 2016-07-27 Water is critical to all human activities but access to this crucial resource is increasingly limited by competition and the effects of climate change. In agriculture water management is key to ensuring good and sustained crop yields, maintaining soil health and safeguarding the long term viability of the land. Water management is especially challenging on smallholder farms in resource poor areas which tend to be primarily rainfed and thus highly dependent on unreliable rainfall patterns. Sustainable practices can help farmers promote the development of soils, plants and field surfaces to allow maximum retention of water between rains and encourage the efficient use of each drop of water applied as irrigation. Especially useful for farmers, groups, agricultural extension workers, NGOs, students and researchers working with farmers in dryland areas, this comprehensive yet concise book is a practical and accessible resource for anyone interested in sustainable water management.

Rainwater Harvesting for Agriculture in the Dry Areas Theib Y. Oweis, Dieter Prinz, Ahmed Y. Hachum, 2012-05-21 Dry areas suffer not only from limited rainfall but also natural leakage. 90% of rainwater is lost directly or indirectly and is unavailable for agriculture or domestic use. Water harvesting is a low cost, easy to use, environmentally friendly way to recover a large part of this lost water. How does water harvesting work? Which sites or areas are best suited and how can these areas be identified? How to design, build and maintain a water harvesting system tailored to local needs? How can water harvesting contribute to combating land degradation, enhancing food security and adapting to climate change? This book provides the answers. The book is based on many years of research, training and development by three of the world's leading experts in water

management and agriculture It is authoritative comprehensive and easy to read containing practical examples many illustrations and little jargon This volume will be of great interest to researchers development workers farmers policymakers students of the natural sciences in fact anyone interested in efficient sustainable management of water resources and agriculture

AD13E Water harvesting and soil moisture retention, 2003 Agrodoks provide practical information on small scale sustainable agriculture in the tropics

The Arid Frontier Hendrik J. Bruins,Harvey Lithwick,2012-12-06 The arid frontier has been a challenge for humanity from time immemorial Drylands cover more than one third of the global land surface distributed over Africa Asia Australia America and Southern Europe Disasters may develop as a result of complex interactions between drought desertification and society Therefore proactive planning and interactive management including disaster coping strategies are essential in dealing with arid frontier development This book presents a conceptual framework with case studies in dryland development and management The option of a rational and ethical discourse for development that is beneficial for both the environment and society is emphasized avoiding extreme environmentalism and human destructionism combating both desertification and human livelihood insecurity Such development has to be based on appropriate ethics legislation policy proactive planning and interactive management Excellent scholars address these issues focusing on the principal interactions between people and dryland environments in terms of drought food land water renewable energy and housing Audience This volume will be of great value to all those interested in Dryland Development and Management professionals and policy makers in governmental international and non governmental organizations NGOs as well as researchers lecturers and students in Geography Environmental Management Regional Studies Development Anthropology Hazard and Disaster Management Agriculture and Pastoralism Land and Water Use African Studies and Renewable Energy Resources

Water, Energy, Food and People Across the Global South Larry A. Swatuk,Corrine Cash,2017-10-16 This collection critically engages the resource use nexus Clearly a nexus approach to resource policy planning and practice is essential if sustainable development goals are to be met In particular in an era of climate change an integrated approach to water energy and agriculture is imperative Agriculture accounts for 70% of global water withdrawals food production accounts for 30% of global energy use and a rising global population requires more of everything As shown in this collection scholars of resource development governance and management are nexus sensitive utilizing a sort of nexus sensibility in their work as it focuses on the needs of people particularly but not only in the global South Importantly a nexus approach presents academics and practitioners with a discursive space in which to shape policy through research to deepen and improve understandings of the interconnections and impacts of particular types of resource use and to critically reflect on actions taken in the name of the nexus

The Marginal Soils of Africa Adornis Dakarai Nciizah,Ashira Roopnarain,Busiswa Ndaba,Mashapa Elvis Malobane,2024-04-25 This book addressed the pressing challenges of climate change land scarcity and food security offering a comprehensive synthesis of research on using managing and reclaiming

marginal lands in Africa Unfavourable climatic conditions and rapid population growth intensify competition for land putting pressure on traditional agricultural soils thus necessitating a transition towards underutilized marginal lands Reclaiming these damaged and undervalued areas through various technologies presents a promising path not only to food independence but also to second generation biofuel feedstock production utilizing excess biomass from these revived lands While recent years have seen increased focus on restoring degraded lands a crucial gap remains i e a unified knowledge base detailing the efficacy of various reclamation technologies This book fills that void empowering farmers and policymakers with the insights they need to make informed decisions mobilize resources effectively and ultimately help Africa meet its projected 60% food demand increase

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Witness the Wonders in **Water Harvesting In Sub Saharan Africa** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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