

**Bulletin 61** 

SOIL AND WATER
CONSERVATION IN
SEMI-ARID KENYA

Overseas Development Administration

# **Soil And Water Conservation In Semi Arid Kenya**

**Carol A. Singer** 

# Soil And Water Conservation In Semi Arid Kenya:

Soil and Water Conservation in Semi-arid Kenya ,1993 Soil and Water Conservation in Semi-arid Areas Norman Hudson, 1987-01-01 The problems of agriculture in the semi arid regions Assessing the possibilities for improving agriculture Soil conservation Water conservation Water harvesting and use Applications of water conservation **Soil and Water** Conservation in Semi-arid Kenya R. M. Kiome, 1993 Innovations as Key to the Green Revolution in Africa Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina, Job Maguta Kihara, 2011-08-30 Africa can achieve self sufficiency in food production through adoption of innovations in the agriculture sector Numerous soil fertility and crop production technologies have been generated through research however wide adoption has been low African farmers need better technologies more sustainable practices and fertilizers to improve and sustain their crop productivity and to prevent further degradation of agricultural lands The agricultural sector also needs to be supported by functional institutions and policies that will be able to respond to emerging challenges of globalization and climate change **Soil and Water Conservation** Manual for Kenya Donald Birket Thomas, 1997 Review of Soil and Water Conservation Research in the Semi Arid **Areas of Eastern Kenya** G. M. Darby, 1982 Coping with Drought Elijah K. Biamah, 2005 **Soil and Water** Conservation for Improved Soil Moisture and Crop Production Romano Mungiiria Kiome, 1992 **Sustainable Land** Management in the Tropics Fred Zaal, 2016-04-01 Bringing together case studies from Kenya Benin Cameroon and the Philippines this volume provides a multidisciplinary overview of the economics of natural resource management in Tropical regions at household and village level By comparing a wide array of climatic and economic conditions it examines the effect of location and access to the market as well as the importance of national policies have on soil and water conservation The book not only analyzes the benefits of soil and water conservation based on econometric studies but also assesses the costs involved In doing so it challenges commonly held assumptions about poorer community s ability to finance such measures

Agriculture and the Environment Ernst Lutz,1998-01-01 Agriculture in developing countries has been remarkably productive during the last few decades however the production levels were achieved at the cost of placing more stress on natural resources and the environment This volume brings together state of the art applied practical research related to agriculture development and the environment in the developing world It attempts to distill current knowledge and to summarize it in readable form for development practitioners Where possible authors use specific examples to indicate which approaches have worked and which have not under which conditions and why \*\*Integrated Watershed Management in Rainfed Agriculture\*\* Suhas P. Wani, Johan Rockstrom, Kanwar Lal Sahrawat, 2011-09-16 This book provides a comprehensive presentation of the realization of improved rainfed agriculture yield in semi arid and dry land areas The incentive of watershed programs is to increase the return on investment with over 20% for 65% of the projects that are currently underperforming Besides techniques to improve the livelihood of the many small scale farmers in developing countries it

includes examples and case studies for further support The methods discussed have recently shown to be successful and economically remunerative in India and in various African countries Intended for professionals investors policy makers researchers and post graduate students working on dry land and sustainable agriculture and water and natural resources management Suited for courses in dry land agriculture soil and water management and watershed development Concepts and Approaches to Land Management in the Tropics with Emphasis on Steeplands T. F. Shaxson, 1999-01-01 In the tropics most of the steepland areas are settled by small scale farming families where livelihoods may be endangered by land degradation and associated loss of productivity This bulletin brings concepts and principles of good land husbandry into 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 Soil Fertility Management in sub-Saharan Africa: Challenges and Opportunities Andre Bationo, Boaz Waswa, Job Kihara, Joseph Kimetu, 2007-10-16 Food insecurity is a fundamental challenge to human welfare and economic growth in Africa Low agricultural production leads to low incomes poor nutrition vulnerability to risk and threat and lack of empowerment This book offers a comprehensive synthesis of agricultural research and development experiences from sub Saharan Africa The text highlights practical lessons from the sub Saharan Africa region Soil and Water Conservation ,1998 Conference held in New Delhi on Dec 4 8 1994 and organized by the Indian Association of Soil and Water Conserevationists Farming in Arid and Semiarid Lands Carol A. Singer, 1994 **Lessons learned from Long-term Soil** Fertility Management Experiments in Africa Andre Bationo, Boaz Waswa, Job Kihara, Ivan Adolwa, Bernard Vanlauwe, Koala Saidou, 2012-03-12 This book elucidates the importance of long term experiments in revealing evidence of soil fertility decline in Africa An evaluation of experiences from on going long term experiments is given in broad detail The first chapter explains the paradigm shift in soil fertility management then provides justification for long term experiments before illuminating experiences from long term experiments in East West and Southern Africa The second sixth eighth and ninth chapters give an in depth account of crop management practices and soil fertility interventions in long term trials within specific agro ecological zones in West Africa The rest of the chapters chapter three four five and seven address crop management tillage practices and organic and inorganic fertilizer applications in the context of long term experiments in specific agro ecological zones in East Africa 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 Water Use in Crop Production M.b. Kirkham, 2024-11-01 Make the best use of available water for your crops Water Use in Crop Production explores innovative methods that determine how much water certain crops need in certain climates in order to ensure adequate plant growth and help eliminate water waste Through this informative book agronomists growers researchers and graduate students will find methods and techniques for effective water management that will save money and conserve water Water Use in Crop Production will enable you enhance crop quality and quantity and save one of the earth s most important resource Comprehensive and thorough this essential book combines two vital needs food and water and examines what must be done in order to keep up with the ever growing human population Explaining conservation techniques used in Argentina Australia Israel Morocco New Zealand the Philippines Spain and the United States Water Use in Crop Production will help you achieve this goal as it discusses water management measures including avoiding excessive deep percolation reducing runoff lessening water evaporation through methods such as reducing the capillary water flow to the surface of the soil determining the rates at which water is demanded and can be supplied in a specific area to create a plan for limiting water loss studying the root structure of plants to calculate how much water they need using deficit irrigation to help plants save water for future use evaluating citrus water use through the Penman Monteith model Containing charts tables and examples of the concepts it discusses this book is the culmination of the latest studies on water storage Water Use in Crop Production provides you with reliable strategies and methods that will help you lessen water expenditures and improve the vitality of crops anywhere in the world Adapting African Agriculture to Climate Change Walter Leal Filho, Anthony O. Esilaba, Karuturi P.C. Rao, Gummadi Sridhar, 2014-11-26 This book summarizes the evidence from different African countries about the local impacts of climate change and how farmers are coping with current climate risks The different contributors show how agricultural systems in developing countries are affected by climate changes and how communities prepare and adapt to these changes

Embracing the Song of Term: An Psychological Symphony within Soil And Water Conservation In Semi Arid Kenya

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