

Balancing Water for Humans and Nature

The New Approach in
Ecohydrology



Edited by Wolfgang Schwangauer and Johannes Rockenbach

Balancing Water For Humans And Nature Balancing Water For Humans And Nature

Marta Antonelli, Francesca Greco



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Balancing Water for Humans and Nature Johan Rockstrom, 2013-06-17 *Balancing Water for Humans and Nature* authored by two of the world's leading experts on water management examines water flows the blood stream of both nature and society in terms of the crucial links balances conflicts and trade offs between human and environmental needs The authors argue that a sustainable future depends fundamentally on our ability to manage these trade offs and encourage long term resilience They advocate an ecohydrological approach to land water environmental problems and advance a strong reasoned argument for viewing precipitation as the gross fresh water resource ultimately responsible for sustaining all terrestrial and aquatic ecosystem services This book makes the most coherent and holistic argument to date for a new ecological approach to understanding and managing water resources for the benefit of all Basing their analysis on per capita needs for an acceptable nutritional diet the authors analyse predictions of the amounts of water needed for global food production by 2050 and identify potential sources Drawing on small scale experiences in Africa and Asia they also cover the vulnerability of the semi arid tropics through a simplified model of green and blue water scarcity components

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Balancing Water For Humans And Nature - The New Approach In Ecohydrology Malin Falkenmark,Johan Rockstrom,2005

Balancing Water for Humans and Nature Malin Falkenmark And Johan|Savenije Rockstrom (With Contributions By Hubert),2004

Rainfed Agriculture Suhas Pralhad Wani,Johan Rockström,Theib Yousef Oweis,2009-01-01 Rainfed agriculture is generally overlooked by development investors researchers and policy makers due to limited confidence in its ability to increase agricultural production and development However research undertaken by a team of leading scientists from global organizations demonstrates its potential in achieving food security improving livelihoods and most importantly addressing issues of equity and poverty reduction in dryland areas the hot spots of poverty On the basis of case studies from varied agricultural and ecological regions in Asia and Africa chapters discuss the need for adopting new paradigms between rainfed and irrigated agriculture catchment micro watershed management approaches upgrades in science based development and more investments in rainfed areas Yield gaps for major rainfed crops are analysed globally and possible ways and means including technological social and institutional options to bridge the yield gaps are discussed in detail Covering areas such as rainwater harvesting and its efficient use the rehabilitation of degraded land and assessment methods for social environmental and economic impacts this book will be necessary for both academics and policy makers working in water management agriculture and sustainable development

Water Resilience for Human Prosperity Johan Rockström,Malin Falkenmark,Carl Folke,Mats Lannerstad,Jennie Barron,Elin Enfors,Line Gordon,Jens Heinke,Holger Hoff,Claudia Pahl-Wostl,2014-03-27 The world s human population now constitutes the largest driving force of changes to the biosphere Emerging water challenges require new ideas for governance and management of water resources in the context of rapid global change This book presents a new approach to water resources addressing global sustainability and focusing on socio ecological resilience to changes Topics covered include the risks of unexpected change human impacts and dependence on global water the prospects for feeding the world s population by 2050 and a pathway for the future The book s innovative and integrated approach links green and blue freshwater with terrestrial and aquatic ecosystem functions and use It also links changes arising from land use alteration with the impacts of those changes on social ecological systems and ecosystem services This is an important state of the art resource for academic researchers and water resource professionals and a key reference for graduate students studying water resource governance and management

The Oxford Handbook of Food, Water and Society John Anthony Allan,Brendan Bromwich,Anthony Colman,Martin Keulertz,2019 Society s greatest use of water is in food production which makes farmers central to global environmental management Current food value chains

however do not enable farmers to both feed a growing population and steward natural resources Through a carefully curated collection of articles written by water and food system scientists and professionals including farmers this Oxford Handbook considers the interconnected issues of real water in the environment and virtual water in food value chains and investigates society's influence on both This perspective highlights considerable challenges for food security and environmental stewardship in the context of ongoing global change The book discusses these issues by region and by selected commodities emphasizing innovation needed for the food system to meet future challenges

Competition for Water Resources

Jadwiga R Ziolkowska, Jeffrey M Peterson, 2016-09-09 Competition for Water Resources Experiences and Management Approaches in the U S and Europe addresses the escalation of global issues regarding water scarcity and the necessary cost effective strategies that must be put in place in order to deal with escalating water crisis The book evaluates use and competition for water resources in the U S and Europe emphasizing the problems and challenges of dealing with tradeoffs in water In addition the book discusses water management strategies that can be used to optimize water use and allocation mitigate water scarcity and adapt to water scarcity Supplementing the numerous case studies the book includes lessons learned from applying specific strategies and approaches This comprehensive overview and comparison of management practices across two continents is an invaluable resource for researchers policymakers and educators in water Provides a national and regional perspective through the use of country specific case study examples Includes a comparative analysis between the U S and Europe illustrating experiences in water management from two sides of the Atlantic Covers interdisciplinary topics related to water such as agriculture and energy

The Water We Eat

Marta Antonelli, Francesca Greco, 2015-04-11 This book pursues a comprehensive multidisciplinary approach in order to analyze the relationship between water and food security It demonstrates that most of the world's economies lack sufficient water resources to secure their populations food requirements and are thus virtual importers of water One of the most inspiring cases which this book is rooted in is Italy the third largest net virtual water importer on earth The book also shows that the sustainability of water depends on the extent to which societies recognize and take into account its value and contribution to agricultural production Due to the large volumes of water required for food production water and food security are in fact inextricably linked Contributions from leading international experts and scholars in the field use the concepts of virtual water and water footprints to explain this relationship with an eye to the empirical examples of wine tomato and pasta production in Italy This book provides a valuable resource for all researchers professionals policymakers and everyone else interested in water and food security

Enjoying the Beat of Appearance: An Emotional Symphony within **Balancing Water For Humans And Nature Balancing Water For Humans And Nature**

In a world used by screens and the ceaseless chatter of immediate connection, the melodic beauty and emotional symphony created by the published word often disappear in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Balancing Water For Humans And Nature Balancing Water For Humans And Nature** an enchanting fictional value overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that captivating masterpiece conducts viewers on a mental trip, skillfully unraveling the concealed songs and profound influence resonating within each carefully crafted phrase. Within the depths with this moving examination, we shall explore the book is central harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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