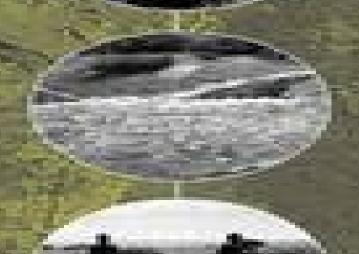
Balancing Water for Humans and Nature

The New Approach in Ecohydrology



Matter Felfreremark and Johan Rockstrom

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Marta Antonelli, Francesca Greco

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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

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