SUSTAINABLE AGRICULTURE AND THE INTERNATIONAL RICE-WHEAT SYSTEM

edited by RATTAN LAL PETER R. HOBBS NORMAN UPHOFF DAVID O. HANSEN



<u>Sustainable Agriculture And The International Rice</u> <u>Wheat System</u>

Hermann Waibel, David Zilberman

Sustainable Agriculture And The International Rice Wheat System:

Sustainable Agriculture and the International Rice-Wheat System Rattan Lal, Peter R. Hobbs, Norman Uphoff, 2004-05-24 Addressing a topic of major importance to the maintenance of world food supplies this reference identifies knowledge gaps defines priorities and formulates recommendations for the improvement of the rice wheat farming system The book reveals new systems of rice intensification and management and illustrates the application of no till and conser Agriculture in the Rice-Wheat System Rattan Lal, 2004 Annotation Addressing a topic of major importance to the maintenance of world food supplies this reference identifies knowledge gaps defines priorities and formulates recommendations for the improvement of the rice wheat farming system. The book reveals new systems of rice intensification and management and illustrates the application of no till and conservation farming to the rice wheat system With contributions from 65 international experts and case studies from India Nepal Pakistan and Bangladesh Sustainable Agriculture and the International Rice Wheat System focuses on seeding equipment and residue management weed control water and nutrient efficiency and integrated pest management **No-till Farming Systems for Sustainable Agriculture** Yash P. Dang, Ram C. Dalal, Neal W. Menzies, 2020-09-03 This book is a comprehensive summary of current global research on no till farming and its benefits and challenges from various agronomic environmental social and economic perspectives It details the characteristics and future requirements of no till farming systems across different geographic and climatic regions and outlines what is needed to increase the uptake of no till farming globally Over 35 chapters this book covers in detail the agronomic and soil management issues that must be resolved to ensure the successful implementation of these systems Important economic environmental social and policy considerations are discussed It also features a series of case studies across a number of regions globally highlighting the challenges and opportunities for no till and how these may vary depending on climate and geopolitical location This book is a remarkable compilation by experts in no till farming systems The promotion and expansion of no till farming systems worldwide will be critical for food security and resource and environmental sustainability This is an invaluable reference for both researchers and practitioners grappling with the challenges of feeding the world's rising population in an environment increasingly impacted by climate change It is an essential reading for those seeking to understand the complexity of no till farming systems and how best to optimise these systems in their region Biological Approaches to Sustainable Soil Systems Norman Uphoff, Andrew S. Ball, Erick Fernandes, Hans Herren, Olivier Husson, Mark Laing, Cheryl Palm, Jules Pretty, Pedro Sanchez, Nteranya Sanginga, Janice Thies, 2006-03-03 Global agriculture is now at the crossroads The Green Revolution of the last century is losing momentum Rates of growth in food production are now declining with land and water resources becoming scarcer while world population continues to grow We need to continue to identify and share the knowledge that will support successful and sustainable Sustainable Agriculture Reviews Eric Lichtfouse, 2013-08-30 Sustainable agriculture is a rapidly growing field

aiming at producing food and energy in a sustainable way for humans and their children It is a discipline that addresses current issues climate change increasing food and fuel prices poor nation starvation rich nation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion This series gathers review articles that analyze current agricultural issues and knowledge then proposes alternative solutions Green Manure Production Systems for Asian Ricelands Jagdish Kumar Ladha, Dennis P. Garrity, 1994 Selected papers from a symposium held as part of the 1992 International Rice Research Conference Climate Change and Agricultural Development Udaya Sekhar Nagothu, 2016-07-15 Two of the greatest current challenges are climate change and variability and food security Feeding nine billion people by 2050 will require major efforts aimed at climate change adaptation and mitigation One approach to agriculture has recently been captured by the widely adopted term of Climate Smart Agriculture CSA This book not only explains what this entails but also presents practical on the ground studies of practices and innovations in agriculture across a broader spectrum including agroecology and conservation agriculture in less developed countries It is shown that CSA is not a completely new science and a number of its recommended technologies have been used for some time by local farmers all over the world What is relevant and new is the approach to exploit their adaptation and mitigation potential However a major limitation is the lack of evidence based knowledge that is necessary for policy makers to prepare strategies for adaptation and mitigation This book assembles knowledge of CSA agroecology and conservation agriculture and perspectives from different regions of the world to build resilient food systems. The first part analyzes the concept opportunities and challenges and provides a global perspective drawing particularly on studies from Africa and Asia The second part of the book showcases results from various studies linked to soil water and crop management measures from an ongoing program in India as well as experiences from other regions The third section assesses the needs for an enabling policy environment mainstreaming gender and sime final recommendations for up scaling and or out scaling innovations Advances in Agronomy Donald L. Sparks, 2012-09-07 Advances in Agronomy continues to be recognized as a leading reference and a first rate source for the latest research in agronomy As always the subjects covered are varied and exemplary of the myriad of subject matter dealt with by this long running serial Maintains the highest impact factor among serial publications in agriculture Presents timely reviews on important agronomy issues Enjoys a long standing reputation for excellence in the Advances in Conservation Agriculture Volume 3 Prof Amir Kassam, 2022-02-08 Summarises current research on field the adoption of Conservation Agriculture CA principles in different regions around the world Highlights the emergence of CA as a key alternative to tillage based agriculture Reviews the challenges of effective implementation of CA in different contexts e g drier conditions poor soil quality Climate Change and Terrestrial Carbon Sequestration in Central Asia Rattan Lal, M. Suleimenov, B.A. Stewart, D.O. Hansen, 2007-08-02 This book brings together current knowledge of terrestrial C sequestration in Central Asia The themes treated include biophysical environments water resources sustainable agriculture

soil degradation the effects of irrigation schemes on secondary salinization soil management and its relationship to carbon dynamics the relationship between f Conservation Agriculture: A Sustainable Approach for Soil Health and Food Security Somasundaram Jayaraman, Ram C. Dalal, Ashok K. Patra, Suresh K. Chaudhari, 2021-08-20 Feeding the increasing global population which is projected to reach 10 billion by 2050 there has been increasing demands for more improved sustainable agricultural management practices that can be followed by farmers to improve productivity without jeopardizing the environment and ecosystem Indeed about 95% of our food directly or indirectly comes from soil It is a precious resource and sustainable soil management is a critical socio economic and environmental issue Maintaining the environmental sustainability while the world is facing resource degradation increasing climate change and population explosion is the current challenge of every food production sectors. Thus there is an urgent need to evolve a holistic approach such as conservation agriculture to sustain higher crop productivity in the country without deteriorating soil health Conservation Agriculture CA is a sustainable approach to manage agro ecosystems in order to improve productivity increase farm profitabilty and food security and also enhance the resource base and environment Worldwide it has been reported various benefits and prospects in adopting CA technologies in different agro climatic conditions Yet CA in arid and semi arid regions of India and parts of south Asia raises uncertainities due to its extreme climates large scale residue burning soil erosion and other constraints such as low water holding capacity high potential evapotranspiration etc Thus the proposed book has 30 chapters addressing all issues relevant to conservation agriculture no till farming system The book also gives further strengthening existing knowledge in relation to soil physical chemical and biological processes and health within close proximity of CA as well as machinery requirements Moreover the information on carbon C sequestration C credits greenhouse gas GHG emission mitigation of climate change effects and socio economic view on CA under diverse ecologies namely rainfed irrigated and hill eco region is also deliberated For large scale adoption of CA practices in South Asian region especially in India and other countries need dissemination of best bet CA technologies for dominant soil types cropping systems through participatory mode strong linkages and institutional mechanism and public private policy support We hope this book gives a comprehensive and clear picture about conservation agriculture no till farming and its associated problem challenges prospects and benefits This book shall be highly useful reference material to researchers scientists students farmers and land managers for efficient and sustainable management of natural resources Sustainable Agriculture Reviews 32 Eric Lichtfouse, 2018-11-08 This book summarise advanced knowledge and methods to recycle waste and fertilise soils in agriculture In the near future waste recycling will no longer be an option because natural resources become rare and costly urbanisation is blooming and population is growing In theory most waste could be recycled In practice most waste is wasted Remarkable aspects include the concepts of waste hierarchy eco houses in smart cities microbes and fungi for plant nutrition and benefits of legume cultivation biochar application and agropastoralism Growing a Revolution: Bringing Our

Soil Back to Life David R. Montgomery, 2017-05-09 Finalist for the PEN E O Wilson Literary Science Writing Award A call to action that underscores a common goal to change the world from the ground up Dan Barber author of The Third Plate For centuries agricultural practices have eroded the soil that farming depends on stripping it of the organic matter vital to its productivity Now conventional agriculture is threatening disaster for the world's growing population In Growing a Revolution geologist David R Montgomery travels the world meeting farmers at the forefront of an agricultural movement to restore soil health From Kansas to Ghana he sees why adopting the three tenets of conservation agriculture ditching the plow planting cover crops and growing a diversity of crops is the solution When farmers restore fertility to the land this helps feed the world cool the planet reduce pollution and return profitability to family farms Organic Fertilisation, Soil Quality and Human Health Eric Lichtfouse, 2012-05-02 Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for our children This discipline addresses current issues such as climate change increasing food and fuel prices starvation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel solutions are proposed based on integrated knowledge from agronomy soil science molecular biology chemistry toxicology ecology economy philosophy and social sciences As actual society issues are now intertwined sustainable agriculture will bring solutions to build a safer world This book series analyzes current agricultural issues and proposes alternative solutions consequently helping all scientists decision makers professors farmers and politicians wishing to build safe agriculture energy and food systems for future generations Adoption and Impacts of Zero Tillage as a Resource Conserving **Technology in the Irrigated Plains of South Asia**, 2007 The recent stagnation of productivity growth in the irrigated areas of the Indo Gangetic Plains of South Asia has led to a quest for resource conserving technologies that can save water reduce production costs and improve production The present synthesis of two detailed country studies confirmed widespread adoption of zero tillage ZT wheat in the rice wheat systems of India's Haryana State 34 5% of surveyed households and Pakistan's Punjab province 19% The combination of a significant yield effect and cost saving effect makes adoption worthwhile and is the main driver behind the rapid spread and widespread acceptance of ZT in Haryana India In Punjab Pakistan adoption is driven by the significant ZT induced cost savings for wheat cultivation Thus the prime driver for ZT adoption is not water savings or natural resource conservation but monetary gain in both sites Water savings are only a potential added benefit ZT adoption for wheat has accelerated from insignificant levels from 2000 onwards in both sites Geographic penetration of ZT is far from uniform suggesting the potential for further diffusion particularly in Haryana India Diffusion seems to have stagnated in the Punjab study area and further follow up studies are needed to confirm this The study also revealed significant dis adoption of ZT in the survey year Punjab Pakistan 14 percent and Haryana India 10 percent Better understanding the rationale for dis adoption merits further scrutiny Our findings suggest that there is no clear single overarching constraint but that a combination of factors is at play including technology performance technology access

seasonal constraints and particularly in the case of Punjab Pakistan the institutional ZT controversy In terms of technology performance the relative ZT yield was particularly influential dis adopters of ZT reporting low ZT yields as a major contributor to farmer disillusionment in Punjab Pakistan and the lack of a significant yield effect in Haryana India In neither site did the ZT induced time savings in land preparation translate into timelier establishment contributing to the general lack of a yield increase Knowledge blockages resource constraints and ZT drill cost and availability all contributed to nonadoption This suggests that there is potential to further enhance access to this technology and thereby its penetration The study highlights that in both Haryana India and Punjab Pakistan ZT has been primarily adopted by the larger and more productive farmers The structural differences between the adopters and non adopters dis adopters in terms of resource base crop management and performance thereby easily confound the assessment of ZT impact across adoption categories This calls for the comparison of the ZT plots and conventional tillage plots on adopter farms ZT induced effects primarily apply to the establishment and production costs of the wheat crop Both the Haryana India and Punjab Pakistan studies confirmed significant ZT induced resource saving effects in farmers fields in terms of diesel and tractor time for wheat cultivation Water savings are however less pronounced than expected from on farm trial data It was only in Haryana India that there were significant ZT induced water savings in addition to significant yield enhancement The higher yield and water savings in Haryana India result in significantly Abstract vi higher water productivity indicators for ZT wheat In both sites there are limited implications for the overall wheat crop management the subsequent rice crop and the rice wheat system as a whole The ZT induced yield enhancement and cost savings provide a much needed boost to the returns to and competitiveness of wheat cultivation in Haryana India In Punjab Pakistan ZT is primarily a cost saving technology Based on these findings the study provides a number of recommendations for research and development in South Asia's rice wheat systems Neutral and Resilient Farming Systems Udaya Sekhar Nagothu, 2022-11-08 This book presents evidence based research on climate neutral and resilient farming systems and further provides innovative and practical solutions for reducing greenhouse gas emissions and mitigating the impact of climate change Intensive farming systems are a significant source of greenhouse gas emissions thereby contributing to global warming and the acceleration of climate change As paddy rice farming is one of the largest contributors and environmentally damaging farming systems it will be a particular focus of this book The mitigation of greenhouse gas emissions needs to be urgently addressed to achieve the 2 C target adopted by COP21 and the 2015 Paris Agreement but this is not possible if local and national level innovations are not accompanied by international level cooperation mutual learning and sharing of knowledge and technologies This book therefore brings together international collaborative research experiences on climate neutral and resilient farming systems compiled by leading scientists and experts from Europe Asia and Africa The chapters present evidence based research and innovative solutions that can be applied or upscaled in different farming systems and regions across the world Chapters also present

models and technologies that can be used for practical implementation at the systemic level and advance the state of the art knowledge on carbon neutral farming Combining theory and practice this interdisciplinary book provides guidance which can inform and increase cooperation between researchers from various countries on climate neutral and resilient farming systems Most importantly the volume provides recommendations which can be put into practice by those working in the agricultural industry especially in developing countries where they are attempting to promote climate neutral and resilient farming systems The book will be of great interest to students and academics of sustainable agriculture food security climate mitigation and sustainable development in addition to policymakers and practitioners working in these areas The Open Access version of this book available at www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4 0 license Innovation in Small-Farm Agriculture Amitava Rakshit, Somsubhra Chakraborty, Manoj Parihar, Vijay Singh Meena, Pradeep Kumar Mishra, Harikesh Bahadur Singh, 2022-05-04 Innovation in Small Farm Agriculture Improving Livelihoods and Sustainability is an invaluable resource focussing on the current state of knowledge and scientific advances about the complex and intertwined issues of innovation and how they relate to livelihood of small scale farmers This book exposes readers with a holistic overview on how agriculture is most associated with the development and transfer of technologies to farmers and their participation in research and development initiatives to improve the relevancy and usefulness of its outputs and innovation which is not well documented The book offers comprehensive coverage of the most essential topics including Recent scientific advances on agricultural innovations for small farmers Emphasizes on opportunities and constraints of techno institutional paradigms Highlight low cost and eco friendly interventions Case studies on various innovations in agriculture spanning the different agricultural gamut Conservation Agriculture in Subsistence Farming Catherine Chan, Jean Fantle-Lepczyk, 2015-06-16 Conservation agriculture systems have long term impacts on livelihoods agricultural production gender equity and regional economic development of tribal societies in South Asia This book presents South Asia as a case study due to the high soil erosion caused by monsoon rainfall and geophysical conditions in the region which necessitate conservation agriculture approaches and the high percentage of people in South Asia relying on subsistence and traditional farming The book takes an interdisciplinary approach to analyse systems at scales ranging from household to regional and national levels

Conservation Agriculture Ram A. Jat, Kanwar L. Sahrawat, Amir H. Kassam, 2013-12-13 The book covers the spread of conservation agriculture CA to regions including Brazil Argentina Canada Australia Europe and emerging CA destinations in Asia and Africa Topics covered include the various components of CA and how their individual and combined implementation influence productivity soil health and environmental quality under diverse edaphic and climatic conditions The book will be useful to teachers researchers extensionists farmers and students interested in environmental quality **International Research on Natural Resource Management** Hermann Waibel, David Zilberman, 2007-01-01 Over the past two decades

significant investment has been made into agriculture related natural resource management research in developing countries. This collection of case studies establishes a methodological foundation for impact assessments of NRMR through a discussion of research conducted by the CGIAR around the world

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