



GREEN REVOLUTION IN INDIA

The Green Revolution

**Andre Bationo, Boaz Waswa, Jeremiah
M. Okeyo, Fredah Maina, Job Maguta
Kihara**

The Green Revolution:

Green Revolution H. K. Jain, 2010 **The Doubly Green Revolution** Gordon Conway, 1998 The original Green Revolution generated new technologies for farmers creating food abundance A second transformation of agriculture is now required specifically Gordon Conway argues a doubly green revolution that stresses conservation as well as productivity He calls for researchers and farmers to forge genuine partnerships in an effort to design better plants and animals **Beyond the Green Revolution** Kenneth Dahlberg, 2012-12-06 This book which is the result of an intellectual odyssey began as an attempt to explore and map the environmental and cross cultural dimensions of the continuing spread of the green revolution that package of high yielding varieties of grain fertilizers irrigation and pesticides that constitutes the core of modern industrial agriculture In the process of traversing the terrain of several intellectual traditions and cutting through various disciplinary forests and thickets a number of striking observations were made all leading to two sobering conclusions First most intellectual maps dealing with agriculture fail to recognize it as the basic interface between human societies and their environment Because of this they are little better than the flat earth maps of earlier centuries in helping to understand global realities Second when agriculture is analyzed from a global perspective that takes evolution seriously one sees that the ecological risks as well as the energy and social costs of modern industrial agriculture make it largely inappropriate for developing countries Beyond that one can see a great need within industrialized countries to develop less costly less risky and more sustainable agricultural alternatives Early in the journey it became clear that conventional disciplinary approaches were inadequate to comprehend the scope and diversity of global agriculture and that a new multilevel approach was needed It also became clear that any new approach would have to try to correct certain Western biases and blind spots **The Green Revolution in the Global South** R. Douglas Hurt, 2020-03-03 A synthesis of the agricultural history of the Green Revolution The Green Revolution was devised to increase agricultural production worldwide particularly in the developing world Agriculturalists employed anhydrous ammonia and other fertilizing agents mechanical tilling hybridized seeds pesticides herbicides and a multitude of other techniques to increase yields and feed a mushrooming human population that would otherwise suffer starvation as the world's food supply dwindled In *The Green Revolution in the Global South* Science Politics and Unintended Consequences R Douglas Hurt demonstrates that the Green Revolution did not turn out as neatly as scientists predicted When its methods and products were imported to places like Indonesia and Nigeria or even replicated indigenously the result was a tumultuous impact on a society's functioning A range of factors including cultural practices ethnic and religious barriers cost and availability of new technologies climate rainfall and aridity soil quality the scale of landholdings political policies and opportunism the rise of industrial farms civil unrest indigenous diseases and corruption entered into the Green Revolution calculus producing a series of unintended consequences that varied from place to place As the Green Revolution played out over time these consequences rippled throughout societies affecting environments

economies political structures and countless human lives Analyzing change over time almost decade by decade Hurt shows that the Green Revolution was driven by the state as well as science Rather than acknowledge the vast problems with the Green Revolution or explore other models Hurt argues scientists and political leaders doubled down and repeated the same missteps in the name of humanity and food security In tracing the permutations of modern science s impact on international agricultural systems Hurt documents how beyond increasing yields the Green Revolution affected social orders politics and lifestyles in every place its methods were applied usually far more than once

The Origins of the Green Revolution

Harry McBeath Cleaver,1974 **The Green Revolution** M. Bazlul Karim,1986-05-20 Product information not available

The Green Revolution Stanley Johnson,1972

Measuring the Green Revolution Dana G. Dalrymple,1975

Seeds of Change Lester Russell Brown,1970

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

Geopolitics and the Green

Revolution John H. Perkins,1997 During the last 100 years the worldwide yields of cereal grains such as wheat and rice have increased dramatically Since the 1950s developments in plant breeding science have been heralded as a Green Revolution in modern agriculture But what factors have enabled and promoted these technical changes And what are the implications for the future of agriculture This new book uses a framework of political ecology and environmental history to explore the Green Revolution s emergence during the 20th century in the United States Mexico India and Britain It argues that the national security planning efforts of each nation were the most important forces promoting the development and spread of the Green Revolution when viewed in the larger scheme this period can be seen as the latest chapter in the long history of wheat use among humans which dates back to the neolithic revolution Efforts to reform agriculture and mitigate some of the harsh environmental and social consequences of the Green Revolution have generally been insensitive to the deeply embedded nature of high yielding agriculture in human ecology and political affairs This important insight challenges those involved in agriculture reform to make productivity both sustainable and adequate for a growing human population

The Green

Revolution H. K. Jain,2012

The Green Revolution

Patrick Kilby,2019-03-04 This book reviews the Green Revolution

starting with its inception and development from the 1940s to the 1970s and leading to what is commonly referred to as a second Green Revolution in the 2000s Building on the historical assessment it draws insights for contemporary policy debates and demonstrates important lessons for the here and now Green Revolution refers to the technical measures

employed to increase food particularly grain production based mainly on improved seed varieties for higher yields and pest resistance. For it to be successful the Green Revolution often required land reform, investments in irrigation and fertilizer supply that were not available to women and marginal farmers. This book analyses three underlying principles that have guided green revolutions: the political environment in which they were set; how they contributed to both the successes and challenges the Green Revolution continues to face; and the systemic institutional barriers for access to these agricultural production advances, with a focus on how gender relations limit the inclusion of women even when they are the principle cultivators and farm managers. The book draws on experiences in Mexico, India and China, examining government policy, the role of the family farm and key issues around the inclusion of women. In doing so, this book connects the history of the Green Revolution with contemporary policy debates on the developing world, particularly in relation to Africa and Asia, around foreign aid and agricultural research. It also specifically establishes that greater inclusivity for women and other marginalised farming communities will significantly enhance the effectiveness of these programs. Interlinking themes of development, policy, gender and agricultural research, this book will be of great interest to students and scholars of agricultural development, food security and sustainable development, as well as policymakers and practitioners working in international aid and agri-food policies.

50 Years of Green Revolution M. S. Swaminathan, 2017-03-14. The green revolution in India about 50 years ago transformed India's image then as a begging bowl to a bread basket. This transformation during the 1960s took just about 4 years. The yield increases achieved in wheat and then in rice, which occurred in just about half a decade, is far in excess of the yield increases during the preceding 4000 years. This remarkable feat was achieved with the leadership of the author using the dwarf wheat types which had been produced by Norman Borlaug in Mexico. The research and development of green revolution of wheat and rice at the Indian Agricultural Research Institute, New Delhi, was led by the author along with his team of students and co-workers. He has published over 100 papers on green revolution and the ever green revolution, which is a refinement of the former. This book is a compilation of just about 40 of his numerous research papers, monographs and books published by him on this subject. The papers in this book bring out the scientific basis of the modification of the plant type so as to be responsive to exogenous addition of chemical fertilizers and irrigation. The ideal plant type enables capture of adequate sunlight and using the chemical fertilizers added to the soil produce substantial photosynthetic starch. And because the plants have short and thick culm, they are able to withstand enormous amounts of grains in their ears. This indeed was the basis of breaking the yield barriers associated with native varieties. The book also brings out that green revolution had established food security at the national level but not at the individual household levels of millions of resource-poor rural small and marginal farming, fishing and landless families. Further, green revolution was commodity-centric and the manner of its practice led to environmental degradation and social inequities. This author realized as early as 1972 that a system of agriculture in India should be designed to fight both the famines of food and rural

livelihoods In pursuit of it this author further designed an evergreen revolution with systems approach What this means is providing concurrent attention to ecological foundations of agriculture and the livelihoods of the rural people The book also brings out that green revolution was a team effort involving scientists policy makers administrators farmers and students This book is an outstanding example of green revolution providing a breathing space by putting the cereal grain production rate ahead of the population growth rate and then when food security has been adequately established the system is changed to achieve productivity in perpetuity without causing environmental and social harm

Nature and Impact of the Green Revolution in Bangladesh Mahabub Hossain,1988 Technological progress and growth of crop production a macro picture Nature of alternative rice technologies Productivity and efficiency of resource use Farm size tenancy and adoption of modern technology Labor market and employment effects of modern technology Linkage effects of agricultural growth Effect on income distribution and poverty

The Green Revolution in the Global South R. Douglas Hurt,2020 The Green Revolution was devised to increase agricultural production worldwide particularly in the developing world Agriculturalists employed anhydrous ammonia and other fertilizing agents mechanical tilling hybridized seeds pesticides herbicides and a multitude of other techniques to increase yields and feed a mushrooming human population that would otherwise suffer starvation as the world's food supply dwindled In this work R Douglas Hurt demonstrates that the Green Revolution did not turn out as neatly as scientists predicted When its methods and products were imported to places like Indonesia and Nigeria or even replicated indigenously the result was a tumultuous impact on a society's functioning A range of factors including cultural practices ethnic and religious barriers cost and availability of new technologies climate rainfall and aridity soil quality the scale of landholdings political policies and opportunism the rise of industrial farms civil unrest indigenous diseases and corruption entered into the Green Revolution calculus producing a series of unintended consequences that varied from place to place As the Green Revolution played out over time these consequences rippled throughout societies affecting environments economies political structures and countless human lives Analyzing change over time almost decade by decade Hurt shows that the Green Revolution was driven by the state as well as science Rather than acknowledge the vast problems with the Green Revolution or explore other models Hurt argues scientists and political leaders doubled down and repeated the same missteps in the name of humanity and food security In tracing the permutations of modern science's impact on international agricultural systems Hurt documents how beyond increasing yields the Green Revolution affected social orders politics and lifestyles in every place its methods were applied usually far more than once

The Green Revolution Keith B. Griffin,1972 SCOTT Copy 1 From the John Holmes Library Collection

The Green Revolution Reconsidered Peter B. R. Hazell,C. Ramasamy,1991

The Violence of the Green Revolution Vandana Shiva,2016-01-14 The Green Revolution has been heralded as a political and technological achievement unprecedented in human history Yet in the decades that have followed it this supposedly nonviolent revolution has left lands ravaged by violence and ecological

scarcity A dedicated empiricist Vandana Shiva takes a magnifying glass to the effects of the Green Revolution in India examining the devastating effects of monoculture and commercial agriculture and revealing the nuanced relationship between ecological destruction and poverty In this classic work the influential activist and scholar also looks to the future as she examines new developments in gene technology The Green Revolution Revisited, Critique and Alternatives Bernhard Glaeser, 1987

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The Green Revolution Introduction

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What We Do by Edward L. Deci, Richard Flaste Aug 1, 1996 — The best way to motivate people—at school, at work, or at

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