

Growing Lowland Rice A Production Handbook

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Principles and Practices of Rice Production - Surajit K. De Datta 1981

Rice in the Tropics - Robert Flint Chandler 1979
The importance of rive as a world crops, and its principal characteristics. The modern rice plant and the new technology: Greater potentials for rice production in the tropics. Problems of postharvest technology. Rice marketing. Some successful rice production programs. Promising rice research. Elements of a successful accelerated rice production program. A national rice program: putting the ingredients together.

African Handbook of Climate Change Adaptation - Nicholas Oguge 2021-05-20

This open access book discusses current thinking and presents the main issues and challenges associated with climate change in Africa. It introduces evidences from studies and projects which show how climate change adaptation is being - and may continue to be successfully implemented in African countries. Thanks to its scope and wide range of themes surrounding climate change, the ambition is that this book will be a lead publication on the topic, which may be regularly updated and hence capture further works. Climate change is a major global challenge. However, some geographical regions are more severly affected than others. One of these regions is the African

continent. Due to a combination of unfavourable socio-economic and meteorological conditions, African countries are particularly vulnerable to climate change and its impacts. The recently released IPCC special report "Global Warming of 1.5o C" outlines the fact that keeping global warming by the level of 1.5o C is possible, but also suggested that an increase by 2o C could lead to crises with crops (agriculture fed by rain could drop by 50% in some African countries by 2020) and livestock production, could damage water supplies and pose an additonal threat to coastal areas. The 5th Assessment Report produced by IPCC predicts that wheat may disappear from Africa by 2080, and that maize—a staple—will fall significantly in southern Africa. Also, arid and semi-arid lands are likely to increase by up to 8%, with severe ramifications for livelihoods, poverty eradication and meeting the SDGs. Pursuing appropriate adaptation strategies is thus vital, in order to address the current and future challenges posed by a changing climate. It is against this background that the "African Handbook of Climate Change Adaptation" is being published. It contains papers prepared by scholars, representatives from social movements, practitioners and members of governmental agencies, undertaking research and/or executing climate change projects in Africa, and working with

communities across the African continent. Encompassing over 100 contributions from across Africa, it is the most comprehensive publication on climate change adaptation in Africa ever produced.

Rice - Achim Dobermann 2000

Rice ecosystems; Nutrient management; Mineral deficiencies; Mineral toxicities; Tools and information.

Rice - C. Wayne Smith 2002-09-09

Thorough coverage of rice, from cultivar development to marketing Rice: Evolution, History, Production, and Technology, the third book in the Wiley Series in Crop Science, provides unique, single-source coverage of rice, from cultivar development techniques and soil characteristics to harvesting, storage, and germplasm resources. Rice covers the plant's origins and history, physiology and genetics, production and production hazards, harvesting, processing, and products. Comprehensive coverage includes: * Color plates of diseases, insects, and other production hazards * The latest information on pest control * Up-to-date material on marketing * A worldwide perspective of the rice industry Rice provides detailed information in an easy-to-use format, making it valuable to scientists and researchers as well as growers, processors, and grain merchants and shippers.

Guide to rice production in Borno State, Nigeria

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Upland Rice - Phool Chand Gupta 1986

Upland rice distribution; Climate; Landscape and soils; Cropping systems; Varietal improvement; Soil management; Land preparation and crop establishment; Farm equipment; Weed management; Disease management; Insect pest management; Economics of upland rice production.

Farming Systems and Poverty - John A. Dixon 2001

A joint FAO and World Bank study which shows how the farming systems approach can be used to identify priorities for the reduction of hunger and poverty in the main farming systems of the six major developing regions of the world.

Water-wise Rice Production - B. A. M. Bouman 2002

Rainfed Rice - International Rice Research Institute 2000

Overview of rainfed rice issues; Sustainability issues in rainfed rice farming; Rainfed rice ecosystems; Rainfed rice farming systems; Crop establishment in rainfed environments; Rainfed rice varietal development and improvement: breeding strategies, methods and outputs; Rice seed management; Soil and nutrient management; Rainfall, on-farm water and soil moisture management; Weed management; Pest, disease and rat management; Participatory farming systems technology development.

White Gold: The Commercialisation of Rice Farming in the Lower Mekong Basin - Rob Cramb 2020-01-03

This open access book is about understanding the processes involved in the transformation of smallholder rice farming in the Lower Mekong Basin from a low-yielding subsistence activity to one producing the surpluses needed for national self-sufficiency and a high-value export industry. For centuries, farmers in the Basin have regarded rice as "white gold", reflecting its centrality to their food security and well-being. In the past four decades, rice has also become a commercial crop of great importance to Mekong farmers, augmenting but not replacing its role in securing their subsistence. This book is based on collaborative research to (a) compare the current situation and trajectories of rice farmers within and between different regions of the Lower Mekong, (b) explore the value chains linking rice farmers with new technologies and input and output markets within and across national borders, and (c) understand the changing role of government policies in facilitating the on-going evolution of commercial rice farming. An introductory section places the research in geographical and historical context. Four major sections deal in turn with studies of rice farming, value chains, and policies in Northeast Thailand, Central Laos, Southeastern Cambodia, and the Mekong Delta. The final section examines the implications for rice policy in the region as a whole.

Growth and Mineral Nutrition of Field Crops - Nand Kumar Fageria 2010-10-19

By the year 2050, the world's population is expected to reach nine billion. To feed and sustain this projected population, world food

production must increase by at least 50 percent on much of the same land that we farm today. To meet this staggering challenge, scientists must develop the technology required to achieve an "evergreen" revolution-one

Fundamentals of Rice Crop Science -

Shouichi Yoshida 1981

Growth and development of the rice plant. Climatic environments and its influence. Mineral nutrition of rice. Nutritional disorders. Photosynthesis and respiration. Rice plant characters in relation to yielding ability. Physiological analysis of rice yield.

Routledge Handbook of Food and Nutrition Security - Bill Pritchard 2016-03-31

The concept of food and nutrition security has evolved and risen to the top of the international policy agenda over the last decade. Yet it is a complex and multi-faceted issue, requiring a broad and inter-disciplinary perspective for full understanding. This Handbook represents the most comprehensive compilation of our current knowledge of food and nutrition security from a global perspective. It is organized to reflect the wide scope of the contents, its four sections corresponding to the accepted current definitional frameworks prevailing in the work of multilateral agencies and mainstream scholarship. The first section addresses the struggles and progression of ideas and debates about the subject in recent years. The other sections focus on three key themes: how food has been, is and should be made available, including by improvements in agricultural productivity; the ways in which politico-economic and social arenas have shaped access to food; and the effects of food and nutrition systems in addressing human health, known as food utilisation. Overall, the volume synthesizes a vast field of information drawn from agriculture, soil science, climatology, economics, sociology, human and physical geography, the nutrition and health sciences, environmental science and development studies.

A Farmer's Primer on Growing Upland Rice -

M. A. Arraudeau 1988

Upland rice plant types; Life cycle of the rice plant; Seeds; Factors that affect seedling growth; What is a good seedling; How to grow good seedlings; Leaves; Roots; Tillers; Panicles; Dormancy; Fertilizers; How much nitrogen to

apply; How to increase the efficiency of nitrogen fertilizer; Other fertilizers and organic matter; Carbohydrate production; Water; Yield components; Plant type with good yield potential; Factors that affect lodging; Land conservation and crop management; Weeds; Control of weeds; Herbicides; Major diseases; Major soil-borne insect pests; Major insect pests during vegetative phase; Major insect pests during reproductive phase; Other pests; Soil problems; How to judge a rice crop at flowering; Harvest and postharvest; Cropping systems. *Water Management in Irrigated Rice* - B. A. M. Bouman 2007

Civil Affairs Handbook - United States. Army Service Forces 1944

Agriculture Handbook - 1949

Set includes revised editions of some issues.

A Handbook for Weed Control in Rice - Kwesi Ampong-Nyarko 1991

Significance of weeds in rice farming; Rice weeds of world importance; Weed control; Principles of herbicide use; Principal rice herbicides; Weed control in irrigated rice; Weed control in rainfed lowland rice; Weed control in upland rice; Weed control in deepwater and floating rice; Management of some difficult weeds.

Handbook on Rice Cultivation and Processing - NPCS Board of Consultants & Engineers 2007-10-01

Rice is the staple food of over half the world population. Rice is normally grown as an annual plant, although in tropical areas it can survive as a perennial crop and can produce a ratoon crop for up to 30 years. The rice plant can grow to 1 to 1.8 m tall, occasionally more depending on the variety and soil fertility. Since its origin, the spread of rice cultivation is extensive and rice is now being grown wherever water supply is adequate and ambient temperature are suitable. The rice grain is covered with a woody husk or hull, which is indigestible and is to be removed in the first step during processing for making the rice edible. Rice cultivation is well suited to countries and regions with low labor costs and high rainfall, as it is labor intensive to cultivate and requires ample water. Rice can be grown practically anywhere, even on a steep hill or

mountain. The traditional method for cultivating rice is flooding the fields while, or after, setting the young seedlings. This simple method requires sound planning and servicing of the water damming and channeling, but reduces the growth of less robust weed and pest plants that have no submerged growth state, and deters vermin. While flooding is not mandatory for the cultivation of rice, all other methods of irrigation require higher effort in weed and pest control during growth periods and a different approach for fertilizing the soil. Drying is an essential step in the processing and preservation of paddy; it is the process that reduces grain moisture content to a safe level for storage. Milling is a crucial step in post production of rice. The basic objective of a rice milling system is to remove the husk and the bran layers, and produce an edible, white rice kernel that is sufficiently milled and free of impurities. India is the second largest rice producing country of the world after China. India also grows some of the finest quality aromatic rice of which basmati is the most high quality rice. This book basically deals with history, origin and antiquity of rice, seed rice and seed production, harvest and post harvest operations, water management practices for rice, diseases and pests of rice and their control, application of biotechnology in aromatic rice improvement, traditional methods of parboiling, modernization of parboiling process, solvent extractive rice milling, general types of quick cooking rice processes, dry milled rice products in brewing, breakfast cereals, rice flakes, puffed rice, rice in multi grain cereals etc. The present book contains cultivation and processing of rice in various ways. The book is very resourceful for the entrepreneurs, technocrats, research scholars etc.

Upland Rice In India - Singh, R.K. 2011-07-01
This book presents a comprehensive account of upland rice cultivation in different states of India. Upland rice system is considered as most diverse of all rice systems and each states of the country grow different varieties under a range of management conditions and cropping patterns. The 23 chapters in the book consolidate and share the knowledge on rainfed upland rice cultivation practiced in different states. It analyzes the upland rice agro-ecosystem in different states and encompasses various

aspects of integrated nutrient management, pest management, varieties available and newer technologies introduced for adoption by farmers to improve the productivity of this fragile ecosystem.

Direct Seeding - 2002

Rice Production - Michael L. Morris 1980

Rice Production in Cambodia - Harry J. Nesbitt 1997

Rice in the Cambodian economy: past and present; Topography, climate, and rice production; Soils and rice; Rice-based farming systems; Rice ecosystems and varieties; Pest management in rice; Farm mechanization; Capture and culture ricefield fisheries in Cambodia; Constraints to rice production and strategies for improvement.

Rice Handbook - 1994

Handbook of Soil Acidity - Zdenko Rengel 2003-01-17

This handbook offers effective strategies to modify and adjust crop production processes to decrease the toxicity of soil contaminants, balance soil pH, improve root growth and nutrient uptake, and increase agricultural yield. The Handbook of Soil Acidity provides methods to, measure soil acidity, determine the major causes of soil acidification, c

[Laos Business Law Handbook Volume 1 Strategic Information and Basic Laws](#) - IBP USA 2013-08

Laos Business Law Handbook - Strategic Information and Basic Laws
Rice - 2007

Growing Food - Tony Winch 2007-09-27

A reference book that answers basic questions about how food is produced from plants.

ORYZA2000 - 2001

Rice Production Worldwide - Bhagirath S. Chauhan 2017-02-16

This book addresses aspects of rice production in rice-growing areas of the world including origin, history, role in global food security, cropping systems, management practices, production systems, cultivars, as well as fertilizer and pest management. As one of the

three most important grain crops that helps to fulfill food needs all across the globe, rice plays a key role in the current and future food security of the world. Currently, no book covers all aspects of rice production in the rice-growing areas of world. This book fills that gap by highlighting the diverse production and management practices as well as the various rice genotypes in the salient, rice-producing areas in Asia, Europe, Africa, the Americas, and Australia. Further, this text highlights harvesting, threshing, processing, yields and rice products and future research needs.

Supplemented with illustrations and tables, this text is essential for students taking courses in agronomy and production systems as well as for agricultural advisers, county agents, extension specialists, and professionals throughout the industry.

Save and Grow - Food and Agriculture Organization of the United Nations 2018-06-22

The book offers a rich toolkit of relevant, adoptable ecosystem-based practices that can help the world's 500 million smallholder farm families achieve higher productivity, profitability and resource-use efficiency while enhancing natural capital.

Rice Production in Uttar Pradesh - M. D. Pathak 1991

Suggestions for improving rice production in Uttar Pradesh.

Sustainable Agriculture and the Environment in the Humid Tropics - National Research Council 1993-02-01

Rainforests are rapidly being cleared in the humid tropics to keep pace with food demands, economic needs, and population growth. Without proper management, these forests and other natural resources will be seriously depleted within the next 50 years. Sustainable Agriculture and the Environment in the Humid Tropics provides critically needed direction for developing strategies that both mitigate land degradation, deforestation, and biological resource losses and help the economic status of tropical countries through promotion of sustainable agricultural practices. The book includes: A practical discussion of 12 major land use options for boosting food production and enhancing local economies while protecting the natural resource base. Recommendations for

developing technologies needed for sustainable agriculture. A strategy for changing policies that discourage conserving and managing natural resources and biodiversity. Detailed reports on agriculture and deforestation in seven tropical countries.

Integrated Management of Salt Affected Soils in Agriculture - Nesreen Houssein

Ahmen Abou-Baker 2015-09-25

Integrated Management of Salt Affected Soils in Agriculture is a concise guide to evaluating and addressing soil issues related to saline content.

Methods focused, the book combines agricultural and soil-based insights to efficiently remediate salt-affected soil. Environmental stress conditions such as salinity have a devastating impact on plant growth and yield, causing considerable loss to agricultural production worldwide. Soil salinity control prevents soil degradation by salinization and reclaim already saline soils. This book will help develop the proper management procedures, to solve problems of crop production on salt-affected soils. Provides both agricultural science and soil science perspectives on soil salinity Identifies differences in salt-affected soils and appropriate remediation options Includes methodologies based on existing scenario and targeted outcomes

Rainfed Lowland Rice Improvement - David J. Mackill 1996

What is rainfed lowland rice? The rainfed lowland ecosystem; The cultivars; Agronomic traits; Growth duration; Drought resistance; Submergence tolerance; Cold tolerance; Adverse soils tolerance; Disease and insect resistance; Grain quality; Selecting parents and making crosses; Managing segregating generations; Evaluating advanced breeding lines; Releasing varieties.

A Farmer's Primer on Growing Rice - B. S. Vergara 1992

The plant; Farm management; Farm analysis and improvement.

Rice - Frans R. Moormann 1978

Chapter 1: Rice and its environment. Chapter 2: The geography of rice (oryza sativa L.). Chapter 3: The hidrology of rice-lands. Chapter 4: Classification of soils on which rice is Grown. Chapter 5: Soil-forming process in aquatic rice lands. Chapter 6: Soil and land properties that

affect the growth of rice. Chapter 7: Elements for evaluation of land for rice growing.

Major Research in Upland Rice -

International Rice Research Institute 1975

Upland rice around the world. Climate of upland rice regions. Soils on which upland rice is

grown. Growth-limiting factors of aerobic soils.

Factors that limit the growth and yields of

upland rice. Varietal diversity and morpho-agronomic characteristics of upland rice.

Agronomic traits needed in upland rice varieties.

Drought tolerance in upland rice. Control of

upland rice insects through varietal resistance.

Diseases of upland rice and their control through

varietal resistance. Varietal resistance to

adverse chemical environments of upland rice soils. Breeding methods for upland rice. Cultural practices for upland rice. Studies on insect pests of upland rice. Pesticide residue in upland rice soil. Mineral microbial transformations in upland rice soil. Future emphasis on upland rice.

Agronomic Handbook - Jr., J. Benton Jones

2002-10-29

Many agronomic reference books either focus on a single crop, several related crops, or specific soil topics but not on a full range of both crop and soil subjects. This unique handbook covers both major agronomic fields. Containing essential data and information on the culture of the world's major agronomic grain, oil, fiber, and sugar crops grown