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# Growing Lowland Rice A Production Handbook

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*Growing  
Lowland Rice  
A Production  
Handbook* 2022-01-05

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**MCKEE GREER**

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White Gold: The

Commercialisation of  
Rice Farming in the  
Lower Mekong Basin  
Int. Rice Res. Inst.  
Life cycle of the rice  
plant; The seed;

Seedling growth; How to select good seedlings; Transplanting; The leaves; The roots; The tillers; The panicle; Dormancy; Fertilizers; How much nitrogen to apply; How to increase the efficiency of nitrogen fertilizer; Why more nitrogen fertilizer is applied during the dry season; Carbohydrates production; Water; Yield components; Plant type of a lowland rice variety with high grain potential; Factors affecting lodging; Weeds; Control of weeds; Herbicides; How to judge a rice crop at flowering.

**Classification and Management of Rice Growing Soils** BoD –

Books on Demand  
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.

*Water-wise Rice Production* Springer  
Nature

This book includes twenty-one comprehensive chapters addressing various soil and crop management issues, including modern

techniques in enhancing crop production in the era of climate change. There are a few case studies and experimental evidence about these production systems in specific locations. Particular focus is provided on the state-of-the-art of biotechnology, nanotechnology, and precision agriculture, as well as many other recent approaches in ensuring sustainable crop production. This book is useful for undergraduate and graduate students, teachers, and researchers, particularly in the fields of crop science, soil science, and agronomy.

*Major Research in Upland Rice* IRRI

These proceedings present the results of

five years collaborative research involving scientists from Australia, Thailand and Lao PDR on the breeding of strategies for rainfed lowland rice in drought-prone environments.

*Rainfed Lowland Rice Improvement* Int. Rice Res. Inst.

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 though 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.

*Breeding Strategies for Rainfed Lowland Rice in Drought-prone*

*Environments* DIANE Publishing

Rice growing soils: constraints, utilization and research needs; Rice soils of Asia: distribution and management; Classification of rice growing soils; Rice soils of Japan; Rice soils of

Sri Lanka; Process of padification in Korea; Fertility management of rice soils in R.O.C. on Taiwan; Fertility capability classification of Taiwan soils; Constraints to the use of rice soils for upland crops in R.O.C. on Taiwan, with particular reference to corn; The soil taxonomy system: important rice soils of Asia.

### **RICE SCIENCE**

Springer

This book is aimed at providing a comprehensive text on rice cultivation/production with major emphasis on rice based integrated farming system models, organic farming aspects, alternate cropping, new techniques like SRI, role of biotechnology etc., in an easily

understandable manner. This book will also help to enrich the knowledge of young researchers in various fields of agriculture and in particular, agronomy, as well as to the teachers and researchers of the Agricultural Universities/Research Organisations.

*A Farmer's Primer on Growing Rice* Int. Rice Res. Inst.

Fertilizer in crop production;

Relationship between crop production, crop yield and fertilizer use;

Yield response to fertilizer; Economics of fertilizer use;

Government programmes and policies affecting fertilizer use.

ORYZA2000 Int. Rice Res. Inst.

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.

**Sustainable Crop Production** Int. Rice Res. Inst.

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; Hot to judge a rice crop at flowering; Harvest and postharvest; Cropping systems.

**International Symposium on Technology for Double Cropping of Rice in the Tropics**

Intl Food Policy Res Inst  
Scenes of starvation have drawn the world's attention to Africa's

agricultural and environmental crisis. Some observers question whether this continent can ever hope to feed its growing population. Yet there is an overlooked food resource in sub-Saharan Africa that has vast potential: native food plants. Africa has more than 2,000 native grains and fruits--"lost" species due for rediscovery and exploitation. This volume focuses on native cereals, presenting information on where and how they are grown, harvested, and processed, their benefits and limitations as a food source, and the the futures of each grain.

Scientific Publishers  
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.

Crop Production Levels  
and Fertilizer Use

Asian  
and Pacific Region  
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.

*Terminology for Rice Growing Environments*

Int. Rice Res. Inst. International networks; Varietal improvement; Soil, crop, and water management; Pest management; Technology transfer.

*Rice in Laos* IRRI

Principles and Practices of Rice Production Int. Rice Res. Inst. Rainfed Lowland Rice Improvement Int. Rice Res. Inst.

**Nutrient Management in Rainfed Lowland Rice in the Lao PDR**  
IITA

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.

*Guide to rice production in Borno State, Nigeria* IRRI

As rice imports surge ahead of production in Ghana, increasing rice production and yields has become a priority. Annual per capita consumption of rice in Ghana grew from 17.5 kg during 1999–2001 to 24 kg during 2010–2011. President Mahama, concerned with rising importation costs, suggested that rice should be



produced locally (Asare-Boadu & Syme 2014). As only 5 percent of global production is traded, local production would also protect consumers from price shocks in the world rice market (World Bank 2013). While substantial investments in national rice production have been made, local production is still not able to keep up with growing demand for rice in Ghana. Substituting for rice imports in Ghana Int. Rice Res. Inst. 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.

**A Farmer's Primer on Growing Rice** Int. Rice Res. Inst.

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. Lowland Rice Growing Suggestions IRRI "The objective of this book is to review the research that has been conducted on nutrient management of lowland rice in Laos from 1991 to 2000 and to present an integrated and sustainable nutrient management approach that is relevant to Lao farmers."--Page 1.