Rice Production Guide

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

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

A Handbook of Rice Seedborne Fungi - T. W. Mew 2002
Seed health testing assures the safe movement of seed of different crops, for research or trade. It is premised on the hypothesis that many harmful organisms are carried by and moved with the seed which have the potential to harm crops. This text provides details of rice seed-borne fungi.
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.
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
Advances in Rice Research for Abiotic Stress Tolerance - Mirza Hasanuzzaman 2018-11-12
Advances in Rice Research for Abiotic Stress Tolerance provides an important guide to recognizing, assessing and addressing the broad range of environmental factors that can inhibit rice yield. As a staple food for nearly half of the world’s population, and in light of projected population growth, improving and increasing rice yield is imperative. This book presents current research on abiotic stresses including extreme temperature variance, drought, hypoxia, salinity, heavy metal, nutrient deficiency and toxicity stresses. Going further, it identifies a variety of approaches to alleviate the damaging effects and improving the stress tolerance of rice. Advances in Rice Research for Abiotic Stress Tolerance provides an important reference for those ensuring optimal yields from this globally important food crop. Covers aspects of abiotic stress, from research, history, practical field problems faced by rice, and the possible remedies to the adverse effects of abiotic stresses Provides practical insights into a wide range of management and crop improvement practices Presents a valuable, single-volume sourcebook for rice scientists dealing with agronomy, physiology, molecular biology and biotechnology
Rice - 2007

Training Manual for Organic Agriculture - I. Gomez 2017-09-01
The production of this manual is a joint activity between the Climate, Energy and Tenure Division (NRC) and the Technologies and practices for smallholder farmers (TECA) Team from the Research and Extension Division (DDNR) of FAO Headquarters in Rome, Italy. The realization of this manual has been possible thanks to the hard review, compilation and edition work of Nadia Scialabba, Natural Resources officer (NRC) and Ilka Gomez and Lisa Thivant, members of the TECA Team. Special thanks are due to the International Federation of Organic Agriculture Movements (IFOAM), the Research Institute of Organic Agriculture (FiBL) and the International Institute for Rural Reconstruction (IIRR) for their valuable documents and publications on organic farming for smallholder farmers.
A Manual of Rice Seed Health Testing - T. W. Mew 1994
Rice seed health and quarantine; The rice plant and its environment; Equipment; Samples and sampling; dry seed inspection; Fungi; Bacteria; Nematodes; Viruses and mycoplasmalike organisms; Field inspection; Seed treatment; Weed seed; Insect pests; Fungal pathogens; Bacterial pathogens; Nematode pest; Organisms causing grain discoloration and damage.
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.
A Farmer's Primer on Growing Rice - B. S. Vergara 1992
The plant; Farm management; Farm analysis and improvement.
Fertilizer Use in African Agriculture - 2007
The good practice guidelines - which form the basis of an interactive policymaker's tool kit included on a CD accompanying the book - relate not only to the more focused problem of encouraging increased fertilizer use by farmers, but also to the broader challenge of creating the type of enabling environment that is needed to support the emergence of efficient, dynamic and commercially viable fertilizer marketing systems."--Jacket.
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.
Rice Handbook - 1994

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 though 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.

The Power of Duck - Takao Furuno 2001-01-01

A Practical Field Guide to Weeds of Rice in Asia - B.A.S. Caton 2010
Weed infestations are a concern for every farmer . Depending on the type of rice production system, farmers across Asia often contend with the same or similar weed species. This group of species is relatively small, but of great importance, and includes many of the "world's worst weeds." In this guide, we have tried to collect practical information about some of the most common weeds of rice in Asia. The guide contains information about the botany, ecology, herbicide resistance, and cultural control of these species in a short text that should be easy to use in the field. In addition, it includes pictures to aid in early and accurate species identification.

Guide to Participatory Varietal Selection for Submergence-tolerant Rice - T. R. Paris 2011
The Green Revolution averted the threat of famine through the rapid adoption of improved rice varieties. However, despite this huge success, hundreds of millions of poor rice-farming families in rainfed areas still live in poverty and suffer from food (rice) insecurity. Despite many released improved rice varieties for rainfed conditions, farmers still use local varieties that can withstand drought and floods but have low yields or they use the same varieties for many years because of a lack of better varieties. Rainfed rice farmers are slow to adopt improved varieties because of several problems. One problem is more of extension than breeding - many farmers, particularly those living in remote rainfed areas, may not have access to or information about the seed of new varieties. Another problem is that variety testing programs are often conducted on-station, which does not represent farmers' fields. Moreover, conventional rice breeding programs usually seek farmers' input only at the very end of the process, when newly released varieties, usually one or two per year, are evaluated in on-farm demonstration trials. Often, in remote and unfavorable areas, subsistence farmers, who comprise the majority of the rural farming population in Asia, give importance to social and cultural dimensions aside from the agronomic performance of the new rice varieties. The complexities of developing acceptable varieties for variable and stressful rainfed environments require that breeders become deeply familiar with men and women farmers' needs and preferences. Since 1977, IRRI has been making efforts to improve communication among farmers, breeders, and extension workers so that men and women farmers' concerns and preferences are considered in plant breeding objectives. Participatory varietal selection (PVS) is a simple way for breeders and agronomists to learn which varieties perform well on-station and on-farm and to obtain feedback from the potential end users in the early phases of the breeding cycle. It is a means for social scientists to identify the varieties that most men and women farmers prefer, including the reasons for their preference and constraints to adoption. Based on IRRI's experience in collaboration with national agricultural research and extension system partners and farmers, PVS, which includes "researcher-managed" and "farmer-managed" trials, is an effective strategy for accelerating the dissemination of stress-tolerant varieties. PVS has also been instrumental in the fast release of stress-tolerant varieties through the formal varietal release system. This guide on PVS will complement the various training programs given by IRRI for plant breeders, agronomists, and extension workers engaged in rice varietal development and dissemination.
Growing Food - Tony Winch 2007-09-27
A reference book that answers basic questions about how food is produced from plants.
Laboratory Manual for Physiological Studies of Rice -

Redesigning Rice Photosynthesis to Increase Yield - J. E. Sheehy 2000

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.
Homegrown Whole Grains - Sara Pitzer 2009-01-01
A resource that has everything gardeners need to know to grow, harvest, store, grind, and cook small crops of nine types of whole grains also includes fifty recipes to bring whole grains to the family table. Original.
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 ests during vegetative phase; Major insect pests during reproductive phase; Other pests; Soil problems; Hot to judgea rice crop at flowering; Harvest and postharvest; Cropping systems.
Advances in Rice Cultivation - C. Karthikeyan 2017
In this book experts from various disciplines were contributed to bring out the book on rice cultivation to facilitate the dissemination of advanced rice information to the Rice Scientists, Extension Officials and other Stakeholders. This book will explain the present and future scenario of rice at national and international level. It covers the following major aspects such as new rice varieties, seed technology, soil science, agronomy, crop physiology, plant protection, harvest, value addition, traditional varieties, rice machineries and rice economics. The organic rice cultivation, water management and experience of successful farmers in rice were added increase to the essence of this book. Advances in rice cultivation deals on rice cultivation with advanced aspects suitable for the present and future rice-farming scenario.
Soil health for paddy rice - Food and Agriculture Organization of the United Nations 2021-02-20
The contents of the manual are intended for use by FFS facilitators and trainers in the implementation of a season-long FFS on paddy rice with a strengthened component on soil health. Some of the exercises presented in this manual were adapted from existing manuals, some were developed during a series of workshops on soil health for FFS facilitators, and some were developed based on activities carried out with farmers during pilot soil health-FFSs in the Philippines. The content and relevant exercises can also be adapted for use in other crops and farming systems such as other cereals, pulses or vegetables, with or without livestock. The Manual contains basic concepts on soil health with related exercises pertaining to the following areas that are usual components of a FFS: ● Baseline survey ● Participatory technology development (PTD)/field studies ● Agroecosystem analysis (AESA) ● Special topics. As the Manual was developed together with FFS facilitators and trainers, it demonstrates the ability of trainers to adapt to the local situation and develop methods and materials accordingly. It is hoped that this output will encourage further experimentation in the field on the topic of soils, soil health and nutrient management, and for FFSs to document their experiences and exchange learnings with other FFSs, farmers and colleagues working in the field of soil health and sustainable intensification of crop production.
Rice Improvement - Peter Randolph Jennings 1979

Techniques for Field Experiments With Rice - K. A. Gomez 1972

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.
Alfalfa Management Guide - Dan Undersander 2021-07-07
Learn how to achieve top yields to maximize profits. This 2011 edition offers the latest information and strategies for alfalfa establishment, production, and harvest. Includes many color photos and charts.
Weed Control in U.S. Rice Production - Roy Jefferson Smith 1977

Hybrid Rice Breeding Manual - S. S. Virmani 1997
Heterosis breeding and hybrid rice; Male sterility systems in rice; Organization of hybrid rice breeding program using CMS system; Source nursery; CMS maintenance and evaluation nursery; Testcross nursery; Restorer purification nursery; Backcross nursery; Combining ability nursery; Breeding rice hybrids with TGMS system; Nucleus and breeder seed production of A, B, R, and TGMS lines; Seed production of

experimental rice hybrids; Evaluation of experimental rice hybrids; Improvement of parental lines; Methods of enhancing the levels of heterosis; Quality assurance procedures in hybrid rice breeding.

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.

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 wateer and soil moisture management; Weed management; Pest, disease and rat management; Participatory farming systems technology development.

Rice - C. Wayne Smith 2002-09-09

Thorough coverage of rice, from cultivar development tomarketing Rice: Evolution, History, Production, and Technology, the thirdbook in the Wiley Series in Crop Science, provides unique,single-source coverage of rice, from cultivar developmenttechniques and soil characteristics to harvesting, storage, andgermplasm 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 productionhazards * 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, makingit valuable to scientists and researchers as well as growers,processors, and grain merchants and shippers.

Rice Production - Michael L. Morris 1980

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 telerance; Disease and insect resistance; Grain quality; Selecting parents and making crosses; Managing segregating generations; Evaluating advanced breeding lines; Releasing varieties.

Rice Farming - Lucky James 2017-11-16

This book Contains a step by step guide on how to grow rice. Everything about rice farming are contain in this book. If you want to venture into commercial rice farming you really need this book.

Guide to rice production in Borno State, Nigeria -

Breadfruit Production Guide - Craig R. Elevitch 2014-01-31

Despite increasing consumer demand and an imminent production surge in breadfruit, a number of barriers must be overcome in order to increase the market availability, distribution, and commercial competitiveness of breadfruit. Many growers have limited understanding of when a fruit is ready to harvest and how to best harvest and handle the fruit to ensure a high quality product is delivered to market. As with any perishable crop-producers must learn proper handling of breadfruit to optimize its value to consumers, and therefore its commercial value. Similarly, chefs and consumers also need essential information on handling and preparation of breadfruit. This comprehensive 36-page guide will help growers ensure that the existing and future breadfruit crop will be used on farm, in the marketplace, or in the consumer's kitchen. This second edition adds kitchen handling tips, nutritional information, and descriptions for three important breadfruit varieties.