

## CHAPTER 1

# PRODUCTION AND UTILIZATION OF RICE

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## I. INTRODUCTION

Rice (*Oryza sativa* L.) is one of the leading food crops of the world, the staple food of over half the world's population. It is generally considered a semiaquatic, annual, grass plant. Cultivars of the two cultivated species, *O. sativa* L. and *O. glaberrima* Steud., can grow in a wide range of water-soil regimes, from deeply flooded land to dry, hilly slopes (Lu and Chang, 1980). Both *O. sativa* and *O. glaberrima* have 12 pairs of chromosomes. Because of its long history of cultivation and selection under diverse environments, remarkable diversity exists in rice. This grain is grown in over 100 countries on every continent except Antarctica, extending from 53° north to 40° south and from sea level to an altitude of 3,000 m. However, *O. glaberrima* is grown only in Africa and only on a limited scale. Production practices for rice range from very primitive to highly mechanized.

Detailed descriptions of aspects of rice production have been published by De Datta (1981) and Yoshida (1981), and Luh (1980) has described production and utilization of rice.

## II. RICE PRODUCTION COMPARED WITH THAT OF OTHER CEREALS

Annual production of rough rice approaches that of wheat and corn (FAO, 1982) (Table I). Rice and wheat are the two most important food cereals, since corn is mainly a feed grain except in Latin America and parts of Asia.

Rice is the staple food of East, Southeast, and South Asia, where 90% of the world's rice crop is produced and consumed (Table I). Mean yields of rice are second only to those of corn (Table II). Cereal yields are generally higher in the temperate countries in Europe, Oceania, and America than in Asia and Africa.

When the actual extraction rates of the cereals (the fraction of each grain utilized as food) are considered (Lu and Chang, 1980), rice actually is calculated to produce more food energy per hectare than the other cereals (Eggum, 1969,

# Rice Production And Utilization

**Food and Agriculture Organization of  
the United Nations**



## **Rice Production And Utilization:**

**Rice--production and Utilization** Bor Shiun Luh,1980 Abstract A comprehensive treatise on the development utilization and production of rice throughout the world presents the newest technology relating to this ancient staple in the diet of more than one third of the world's population Topics include the biological aspects of rice such as growth genetics culture chemical properties nutritional quality diseases and pests the handling of rice from harvest and drying to milling and storage and the various uses of rice in baking flours cereals fermented products and snack foods Rice can be enriched or fortified with vitamins and amino acids It can be marketed parboiled as quick cooking rice or canned frozen or dried Methods for utilizing the hulls oils and bran of rice are becoming more widely used

**Rice** Bor S. Luh,2013-11-11 Rice is one of the principal cereals used by the world's inhabitants The hope for improved nourishment of the world's population depends on the development of better rice varieties and improved methods for rice production and utilization During the past four decades interest in rice research and production has increased in many countries The development of new and better varieties by the International Rice Research Institute in the Philippines and other rice research institutes has stimulated numerous research stations to test the performance of these varieties in many countries under different climates soil properties cultural practices and environmental conditions The methods of harvesting handling drying and milling rough rice have improved as a result of research efforts by the engineers and the rice milling industries The first edition of Rice Production and Utilization was published in 1980 This second edition presents the recent developments and progress made by the researchers the industries and various experiment stations Because of the large amounts of literature available in recent years on rice production and utilization this edition is divided into two volumes Volume 1 Production and Volume II Utilization It is hoped that the books will be useful to rice researchers processors and people interested in rice production and utilization Those studying the agronomy of rice plants especially the genetics breeding cultivation diseases and insects that attack both the rice plant and the stored grain will find this edition helpful in their search for new knowledge

**Chemistry and Technology of Cereals as Food and Feed** Samuel A. Matz,1991-04-30 This is a completely revised and updated edition of the comprehensive and widely used survey of cereal technology The first section describes the botany classification structure composition nutritional importance and uses of wheat corn oats rye sorghum rice and barley as well as six other grains The book also details the latest methods of producing cleaning and storing these grains The second section of the book offers current information on the technological and engineering principles of feed milling flour milling baking malting brewing manufacturing breakfast cereals snack food production wet milling starch and oil production from grains rice processing and other upgrading procedures applied to cereal grains This section also explains the value and utilization of by products and examines many rarely discussed processing methods In addition the book provides reviews of current knowledge on the dietary importance of cereal proteins lipids fibre vitamins minerals and anti nutrient factors as well

as the effects of processing methods on these materials      **Rice, Volume 1: Production** Bor S. Luh,1991-03-31

**Agronomic Rice Practices and Postharvest Processing** Deepak Kumar Verma,Prem Prakash Srivastav,Altafhusain B. Nadaf,2018-12-07 This volume addresses three important agricultural aspects of rice physical characteristics physico chemical characteristics and the organoleptic aspects Divided into sections the book first examines recent trends and advances for higher production and quality improvement focusing on the effects of climate on rice cultivation and climate resilient agricultural practices in rice The volume goes on to cover nutrient management for rice production and quality improvement Chapters also address weed management and postharvest processing practices for improved rice production With chapters from renowned scientists researchers and professors this book will be a useful reference for rice researchers working in the area of agronomic practices postharvest processing and quality improvement in rice      **Food Outlook -**

**Biannual report on global food markets** Food and Agriculture Organization of the United Nations,2024-06-13 FAO s latest forecasts point to increased production and higher stocks for several basic foodstuffs However global food production remains susceptible to shocks arising from weather conditions geopolitical tensions and policies These factors could disrupt the delicate balance between supply and demand impacting global food security Issued twice a year the June issue of the Food Outlook offers FAO s reviews of market supply and demand trends for the world s major foodstuffs namely cereals oilcrops sugar meat dairy and fish It also looks at trends in food import bills Ocean freight rates international food prices and futures markets The Markets and Trade Division of FAO as part of the Global Information and Early Warning System GIEWS produces and publishes the Food Outlook to enhance transparency in global food markets Concerning global cereal markets the Food Outlook maintains a close synergy with the quarterly GIEWS publication Crop Prospects and Food Situation Food Outlook is available in English The summary section is available in Arabic Chinese French Russian and Spanish      **Land**

**Utilization in the Hawaiian Islands** John Wesley Coulter,1933      **Recent Advances on Nitrogen Use Efficiency in Crop Plants and Climatic Challenges** Hamada AbdElgawad,2023-08-25 Nitrogen N is a mineral nutrient that is essential for the normal growth and development of plants that is required in the highest quantity It is an element of nucleic acids proteins and photosynthetic metabolites therefore crucial for crop growth and metabolic processes Recently it was estimated that N fertilizers could meet the 48% demand of the world s population However overuse and misuse of N fertilizers raised environmental concerns associated with N losses by nitrous oxide N<sub>2</sub>O emissions ammonia NH<sub>3</sub> volatilization and nitrate NO<sub>3</sub> leaching For instance NH<sub>3</sub> is a pollutant in the atmosphere N<sub>2</sub>O is a greenhouse gas that has a warming potential 298 times higher than CO<sub>2</sub> and contributes to ozone depletion and NO<sub>3</sub> causes eutrophication of water bodies Agricultural practices account for about 90% of NH<sub>3</sub> and 70% of N<sub>2</sub>O anthropogenic emissions worldwide The efficient use of N chemical fertilizers can be attained through cultural and agronomic practices Nitrogen use efficiency NUE is an important trait that has been studied for decades in different crops The grain production or economic return from the per unit supply of N

fertilizer simply explained the NUE Several definitions were suggested by different researchers NUE can be defined as the product of N uptake efficiency NUpE and N utilization efficiency NUtE An increase in NUE increases the yield biomass quality and quantity of crops N is generally applied as chemical fertilizer to the soil whereas a small amount is added to some crops like grain legumes through the fixation process On the other hand crop plants take N through the root system in the form of nitrate or ammonium which is thereby used in different metabolic processes A number of studies have been conducted to increase the NUE in different crops and it has been indicated that NUE can be improved by agronomic physiological biochemical breeding as well as molecular approaches Nitrogen is the main limiting nutrient after carbon hydrogen and oxygen for the photosynthetic process phyto hormonal and proteomic changes and the growth development of plants to complete their lifecycle Excessive and inefficient use of N fertilizer results in enhanced crop production costs and atmospheric pollution Atmospheric nitrogen 71% in the molecular form is not available for the plants For the world's sustainable food production and atmospheric benefits there is an urgent need to upgrade nitrogen use efficiency in the agricultural farming system Nitrogen losses are too high due to excess amount low plant population poor application methods etc which can go up to 70% of total available nitrogen These losses can be minimized up to 15-30% by adopting improved agronomic approaches such as optimal dosage of nitrogen application of N by using canopy sensors maintaining plant population drip fertigation and legume based intercropping Therefore the major concern of modern days is to save economic resources without sacrificing farm yield as well as the safety of the global environment i.e. greenhouse gas emissions ammonium volatilization and nitrate leaching

Export Administration Report United States. Bureau of East-West Trade, 1991      *Export Administration Annual Report* United States. Office of Export Administration, 1993      Export Administration United States. Bureau of Export Administration, 1991      *Export administration annual report ... and ... report on foreign policy export controls* United States. Bureau of Export Administration, 1995

**Input Use Efficiency for Food and Environmental Security** Rajan Bhatt, Ram Swaroop Meena, Akbar Hossain, 2022-01-11 Ending hunger achieving food security and promoting sustainable development are at the top of the list of United Nations UN sustainable global development priorities In the times of high population growth and increasing pressure of agricultural systems efficiency in use of natural resources has been at the epicenter of sustainable agriculture The concept of Input efficiency implies production of high quantity and quality of food from using only finite natural resources as inputs in the form of mainly land water nutrients energy or biological diversity In this book editors provide a roadmap to the food nutritional and environmental security in the agricultural systems They share insight into the approaches that can be put in practice for increasing the input use efficiency in the cropping systems and achieve stability and sustainability of agricultural production systems This book is of interest to teachers researchers climate change scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of agriculture agroforestry

agroecology and environmental sciences National and international agricultural scientists policymakers will also find this to be a useful read      **Food Outlook - Biannual report on global food markets** FAO,2024-11-14 FAO s latest assessments indicate differing trajectories across different commodities with wheat maize and sugar production set to decline while outputs of dairy fisheries meats oilseeds and rice are expected to increase with implications for utilization trade and stock levels However global food production remains susceptible to shocks arising from weather conditions geopolitical tensions and policies These factors could disrupt the delicate balance between supply and demand impacting global food security

**Rural Development, Agriculture, and Related Agencies Appropriations for 1989** United States. Congress. House. Committee on Appropriations. Subcommittee on Rural Development, Agriculture, and Related Agencies,1988      Food Outlook Food and Agriculture Organization of the United Nations,2018-06-06 According to the latest issue of this biannual outlook food commodity markets remain well supplied The cost of importing food is expected to rise by 6 percent compared to last year s due to a sharp increase in freight rates stronger import demand and firmer prices for most food commodities This would bring the global food import bill to the second highest level on record      *Export Administration Annual Report* United States. Bureau of Export Administration,1991      **Biomass** Shi Yuanchun,2013-11-14 After addressing the basic knowledge of bioenergy and its development in the United States the European Union and Brazil this book places emphasis on the introduction of China s bioresources its development since 2001 and the difficulties it encountered In the concluding chapter Shi presents his ideas about a Green Civilization This book analyzes bioenergy from a natural science perspective but is also accessible to the social scientist interested in sustainable development      *Foreign Crops and Markets* ,

**Bibliography of Agriculture** ,1974

Rice Production And Utilization: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Rice Production And Utilization : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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prédilection de c calyptratus est relativement humide et il ne fréquente pas les territoires arides

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web comportement général le caméléon casqué du yémen est un reptile peu actif il est naturellement arboricole interactions avec les congénères cette espèce étant très territoriale il est préférable d élever un individu seul si aucune reproduction n est voulue et sans contact visuel avec des congénères

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