

Abc Guide To Mineral Fertilizers Yara International

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The Potato Crop P. M Harris 2013-12-19

Sustainable Intensification to Advance Food Security and Enhance Climate Resilience in Africa Rattan Lal 2014-10-10 This 32-chapter volume represents the core of several oral and poster presentations made at the conference. In addition to Introduction and Conclusion sections, the book is thematically divided into 7 sections, namely, 1) Land Use and Farming Systems, 2) Effects of Climate Change on Crop Yield, 3) Soil Nutrient and Water Management for Carbon Sequestration, 4) Rehabilitation of Degraded Lands through Forestry and Agroforestry, 5) Management of Animal Production for Greenhouse Gas Emissions, 6) Smallholder Adaptation to Climate Change, and 7) Economic, Social and Policy Issues. It addresses these themes in the context of sustainable intensification (SI). It implies increasing agronomic production from the existing land while improving/restoring its quality and decreasing the C or environmental footprint. Simply put, SI means producing more from less.

Plant Factory Toyoki Kozai 2019-11-03 *Plant Factory: An Indoor Vertical Farming System for Efficient Quality Food Production, Second Edition* presents a comprehensive look at the implementation of plant factory (PF) practices to yield food crops for both improved food security and environmental sustainability. Edited and authored by leading experts in PF and controlled environment agriculture (CEA), the book is divided into five sections, including an Overview and the Concept of Closed Plant Production Systems (CPPS), the Basics of Physics and Physiology – Environments and Their Effects, System Design, Construction, Cultivation and Management and Plant Factories in Operation. In addition to new coverage on the rapid advancement of LED technology and its application in indoor vertical farming, other revisions to the new edition include updated information on the status of business R&D and selected commercial PFALs (plant factory with artificial lighting). Additional updates include those focused on micro and mini-PFALs for improving the quality of life in urban areas, the physics and physiology of light, the impact of PFAL on the medicinal components of plants, and the system design, construction, cultivation and management issues related to transplant production within closed systems, photoautotrophic micro-propagation and education, training and intensive business forums on PFs. Includes coverage of LED technology Presents case-studies for real-world insights and application Addresses PF from economics and planning, to operation and lifecycle assessment

Integrated Plant Nutrient Management in Sub-Saharan Africa 2002 Soil degradation and nutrient depletion have become serious threats to agricultural productivity in Africa. Soils cannot supply the quantities of nutrients required and yield levels decline rapidly once cropping commences. This book addresses these issues and includes papers from an international symposium held at Cotonou, Benin, October 9-12, 2000, organized by the International Institute of Tropical Agriculture, Ibadan, Nigeria and the Department of Land Management of the Katholieke Universiteit Leuven, Belgium. In five main parts it marks the end of a first phase of collaborative research on "Balanced Nutrient Management Systems for the Moist Savanna and Humid Forest Zones of Africa" and concludes with recommendations, providing essential reading for crop and soil scientists.

Cotton Production Manual S. Johnson Hake 1996 The Cotton Production Manual was written for growers everywhere who strive to improve cotton quality and productivity. Features a season-by season production calendar with pest and disease control, fertilization, and irrigation tips and a Diagnostic Guide to help you identify crop problems in the field with management options. 12 pages of color plates.

The Impact of Climate Change on Our Life Abdelnaser Omran 2018-02-23 This book introduces the highly topical issue from many different angles, sensitizing readers to the various challenges to human life posed by climate change, identifying possible intentional and inadvertent anthropogenic factors and consequences, and seeking socially and environmentally viable solutions. The book begins by examining the impact of the climate change discussion on science, politics, economy and culture – from its historical origin in the first Club of Rome Report and its inclusion in the UN's SDGs to the Paris Agreement and beyond. Comprising 12 chapters, it analyses the factors which caused the catastrophic 2014 Kelantan flood in Malaysia, focusing on the Kuala Krai district and discusses mud architecture in Wadi Hadramout, Yemen and mitigating the expected effects of climate change on this unique architecture and cultural heritage. It also examines the economic costs of climate change on health and the increased burden on individual expenditures and national health systems. The role of climate change in the water-energy nexus and efforts to increase efficiency in energy and water end-use to increase Queensland's agricultural sector's resilience in Australia is addressed, as is water security and climate change issues in developing countries and the potential of partnership procurement strategies for managing sustainable urban water supply in Nigerian cities. It also includes a chapter offering a new approach to waste management, exploring to what extent waste can complicate our daily actions and influence environmental decay, and recommending that renewable materials be sorted and separated from other types of materials to avoid cross-contamination, to increase the value of the materials, and to ease the process of manufacturing. Subsequent chapters identify factors sustaining the municipal solid waste management and practices in Ajdabiya city in Libya, and look at accounting disclosure remedies by exploring areas in which sustainability reporting could expand beyond corporate environmental reporting to additional disclosures, curbing recklessness in pursuing merely economic goals. The book shows – from the perspective of agriculture – how human activities can increase the negative impacts of climate change on lifestyle in Malaysia, suggesting alternative lifestyles and encouraging international cooperative efforts. The last chapters evaluate the impacts of various environmental factors on the local tourism sector in Pakistan, and discuss strategies to tackle climate change, focusing on the opportunities and risks of climate engineering. Since these risks encompass inadvertent negative effects and targeted abuse for covert weather warfare and terrorism that violate the UN's ENMOD convention, the author recommends viable alternatives to deal with climate change.

Food Rebellions Eric Holt-Gimenez 2012-11-06 Today there are over a billion hungry people on the planet, more than ever before in history. While the global food crisis dropped out of the news in 2008, it returned in 2011 (and is threatening us again in 2012) and remains a painful reality for the world's poor and underserved. Why, in a time of record harvests, are a record number of people going hungry? And why are a handful of corporations making record profits? In *Food Rebellions! Crisis and the Hunger for Justice*, authors Eric Holt-Giménez and Raj Patel with Annie Shattuck offer us the real story behind the global food crisis and document the growing trend of grassroots solutions to hunger spreading around the world. *Food Rebellions!* contains up to date information about the current political and economic realities of our food systems. Anchored in political economy and an historical perspective, it is a valuable academic resource for understanding the root causes of hunger, growing inequality, the industrial agri-foods complex, and political unrest. Using a multidisciplinary approach, Holt-Giménez and Patel give a detailed historical analysis of the events that led to the global food crisis and document the grassroots initiatives of social movements working to forge food sovereignty around the world. These social movements and this inspiring book compel readers to confront the crucial question: Who is hungry, why, and what can we do about it?

Sudan United Nations Environment Programme 2007 This report presents the findings of the Post-Conflict Environmental Assessment of Sudan and provides detailed recommendations for follow-up action. The sectors investigated include natural disasters and desertification, linkages between conflict and environment, the impacts of population displacement, urban environment and environmental health, industry, agriculture, forest resources, freshwater resources, wildlife and protected areas, marine environments, environmental governance and international aid.--Publisher's description.

Úrsula Oswald Spring: Pioneer on Gender, Peace, Development, Environment, Food and Water Úrsula Oswald Spring 2018-09-04 This book aims to initiate among students and other readers critical and interdisciplinary reflections on key problems concerning development, gender relations, peace and environment, with a special emphasis on North-South relations. This volume offers a selection of the author's research in different parts of the world during 50

years of contributing to an interdisciplinary scientific debate and addressing social answers to urgent global problems. After the author's biography and bibliography, the second part analyses the development processes of several countries in the South that resulted in a dynamic of underdevelopment. The deep-rooted gender discrimination is also reflected in the destructive exploitation of natural resources and the pollution of soils, water and air. Since the beginning of the Anthropocene in the mid-20th century, the management of human society and global resources has been unsustainable and has created global environmental change and multiple conflicts over scarce and polluted resources. Peace and development policies aiming at gender equity and sustainable environmental management, where water and food are crucial for the survival of humankind, focus on systemic alternatives embedded in a path of sustainability transition. • This book reviews multiple influences from Europe, Africa and Latin America on a leading social scientist and activist on gender, development and environment aiming at a world with equity, sustainability, peace and harmony between nature and humans. • This pioneer volume analyses social and environmental conflicts and peace processes in Latin America, with a special focus on Mexico, by addressing the development of under-development, global environmental change, poverty, nutrition and the North-South gap. • This volume focuses on environmental deterioration with a special emphasis on food and water and proposes systemic changes towards a sustainability transition with peace, regional development and gender equity. • This pioneering work offers alternative approaches to regional development, food sovereignty and holistic development processes from a gender perspective.

Agarwood Rozi Mohamed 2016-06-01 This book gives readers new information to understand the mechanism of agarwood induction and therefore eradicate the myths surrounding agarwood formation. One of the challenges in conserving agarwood resources is species identification. In this book, taxonomy and systematics of agarwood-producing trees from historical and recent perspectives is discussed, and tips are given for identifying cultivated species. In addition, color illustrations are given to highlight vegetative and reproductive characteristics as well as anatomical features, for identification purposes of both plant and agarwood sources. Another challenge that planters are facing is in acquiring the correct method for agarwood induction, thus development of agarwood induction technologies will be reviewed. A chapter dedicated to bioinduction is included. The book will comprise a chapter on the use of non-destructive technology as a management tool for cultivating agarwood. The book also discusses issues relating to agarwood grades. The absence of an international standard that is acceptable by producer and consumer countries further complicates the issue. Other useful information includes a systematic revelation of agarwood constituents and their complex chemistry, and highlights on a specific pharmaceutical property.

Fertilizers and Their Use Julius Terrass Willard 1910

Legacy Phosphorus in Agriculture: Role of Past Management and Perspectives for the Future Luke Gatiboni 2021-01-07

Working with Smallholders International Finance Corporation 2018-12-05 This handbook addresses the challenges that agribusiness companies face when working with smallholder suppliers in their value chain.

Biological Activities and Application of Marine Polysaccharides Emad Shalaby 2017-01-11 Marine organisms have been under research for the last decades as a source for different active compounds with various biological activities and application in agriculture, pharmacy, medicine, environment, and industries. Marine polysaccharides from these active compounds are used as antibacterial, antiviral, antioxidant, anti-inflammation, bioremediations, etc. During the last three decades, several important factors that control the production of phytoplankton polysaccharides have been identified such as chemical concentrations, temperature, light, etc. The current book includes 14 chapters contributed by experts around the world; the chapters are categorized into three sections: Marine Polysaccharides and Agriculture, Marine Polysaccharides and Biological Activities, and Marine Polysaccharides and Industries.

Sustainable Intensification Jules Pretty 2011 Continued population growth, rapidly changing consumption patterns and the impacts of climate change and environmental degradation are driving limited resources of food, energy, water and materials towards critical thresholds worldwide. These pressures are likely to be substantial across Africa, where countries will have to find innovative ways to boost crop and livestock production to avoid becoming more reliant on imports and food aid. Sustainable agricultural intensification – producing more output from the same area of land while reducing the negative environmental impacts – represents a solution for millions of African farmers. This volume presents the lessons

learned from forty sustainable agricultural intensification programmes in twenty countries across Africa, commissioned as part of the UK Government's Foresight project. Through detailed case studies, the authors of each chapter examine how to develop productive and sustainable agricultural systems and how to scale up these systems to reach many more millions of people in the future. Themes covered include crop improvements, agroforestry and soil conservation, conservation agriculture, integrated pest management, horticulture, livestock and fodder crops, aquaculture, and novel policies and partnerships.

An Insight into Mergers and Acquisitions Vinod Kumar 2019-06-18 This book provides an insight in the phenomenon of Mergers and Acquisitions (M&A), including the various forms of corporate restructuring. It highlights the importance of M&A as a strategy for faster growth in the corporate. The book provides an enriched experience of the art of valuation with detailed description of M&A process, deal structuring and financing. The book also provides the broader perspective of Accounting and Regulatory aspects of M&A. While covering the conceptual underpinnings of M&A, the book supplements it with real life examples on each sub-topic with various numeric examples. Thus the judicious blend of theory and practical aspects, through numerical as well as real life case-studies, make the book a source of vast knowledge in the complicated and dynamic world of M&A.

Sustainable Solutions for Elemental Deficiency and Excess in Crop Plants Kumkum Mishra 2020-11-28 This book covers all aspects of deficiency of essential elements and excess of toxic ones in crop plants. The metal deficiency and toxicity are the two sides of same problem that are threatening to sustainable agricultural growth. The book presents prospective strategies for the management of elemental nutrition of crop plants. Chapters are arranged in a manner so as to develop a lucid picture of the topic beginning from basics to advanced research. The content is supplemented with flow charts and figures to make it convenient for readers to holistically grasp the concepts. It will be a value addition for students, research scholars and professionals in understanding the basics as well latest developments in the area of metal deficiency and excess in crop plants.

Fertilizer Manual Travis P. Hignett 2013-04-17 This Fertilizer Manual was prepared by the International Fertilizer Development Center (IFDC) as a joint project with the United Nations Industrial Development Organization (UNIDO). It is designed to replace the UN Fertilizer Manual published in 1967 and intended to be a reference source on fertilizer production technology and economics and fertilizer industry planning for developing countries. The aim of the new manual is to describe in clear, simple language all major fertilizer processes, their requirements, advantages and disadvantages and to show illustrative examples of economic evaluations. The manual is organized in five parts. Part I deals with the history of fertilizers, world outlook, the role of fertilizers in agriculture, and raw materials and includes a glossary of fertilizer-related terms. Part II covers the production and transportation of ammonia and all important nitrogen fertilizers-liquids and solids. Part III deals with the characteristics of phosphate rock, production of sulfuric and phosphoric acid, and all important phosphate fertilizers, including nitrophosphates and ammonium phosphates. Part IV deals with potash fertilizers-ore mining and refining and chemical manufacture; compound fertilizers; secondary and micronutrients; controlled-release fertilizers; and physical properties of fertilizers. Part V includes chapters on planning a fertilizer industry, pollution control, the economics of production of major fertilizer products and intermediates, and problems facing the world fertilizer industry.

Durum Wheat Breeding and Genetics Pasquale de Vita 2020-09-16 The Mediterranean basin is the main area both for the cultivation of durum wheat and for the consumption of derived food products such as pasta, couscous, and bulgur. The ongoing climate changes and new consumer preferences make the selection of genetic materials suitable for the present scenarios particularly difficult. This Special Issue Book covers several aspects of the genetic improvement of durum wheat, collected in seven chapters including two review papers focused on milestones in durum wheat breeding programs across the countries of the Mediterranean basin and sub-Saharan Africa. Water deficit and heat stress occurring during the reproductive stage of wheat have a detrimental effect on yield and grain quality of durum wheat. The papers included in this Special Issue propose selection strategies for traits associated with yield and grain quality (e.g., root architecture, carbon isotope composition of grain, and gluten quality) under natural or artificial environmental conditions of drought, heat, and nutrient stress. This Special Issue presents new breeding opportunities for selecting modern varieties adapted to climate change and expanding durum wheat production.

Nutritional Biochemistry Chad Cox 2015-06-01 This title includes a number of Open Access chapters. Nutrition is becoming ever more central to our understanding of metabolic

processes. Nutritional biochemistry offers insight into the mechanisms by which diet influences human health and disease. This book focuses on five aspects of this complex field of study: nutritional genomics, clinical nutrition and biochemistry, vitamins and minerals, macronutrients and energy, and cell function and metabolism. Collected in this research compendium are recent studies within each of these topics. Each chapter contributes to a well-rounded and up-to-date picture of nutritional biochemistry. Appropriate for graduate-level and post-doctorate students, this book will stimulate further study into this important field of research.

Food Security and Safety Olubukola Oluranti Babalola 2021-09-01 This book focuses on food security and safety issues in Africa, a continent presently challenged with malnutrition and food insecurity. The continuous increase in the human population of Africa will lead to higher food demands, and climate change has already affected food production in most parts of Africa, resulting in drought, reduced crop yields, and loss of livestock and income. For Africa to be food-secure, safe and nutritious food has to be available, well-distributed, and sufficient to meet people's food requirements. Contributors to *Food Security and Safety: African Perspectives* offer solutions to the lack of adequate safe and nutritious food in sub-Saharan Africa, as well as highlight the positive efforts being made to address this lack through a holistic approach. The book discusses the various methods used to enhance food security, such as food fortification, fermentation, genetic modification, and plant breeding for improved yield and resistance to diseases. Authors emphasize the importance of hygiene and food safety in food preparation and preservation, and address how the constraints of climate change could be overcome using smart crops. As a comprehensive reference text, *Food Security and Safety: African Perspectives* seeks to address challenges specific to the African continent while enhancing the global knowledge base around food security, food safety, and food production in an era of rapid climate change.

Optical Sensors Moh Yasin 2014-03-19 This book is a compilation of works presenting recent developments and practical applications in optical sensor technology. It contains 10 chapters that encompass contributions from various individuals and research groups working in the area of optical sensing. It provides the reader with a broad overview and sampling of the innovative research on optical sensors in the world.

Nutrient Use Efficiency in Plants Malcolm J. Hawkesford 2014-11-14 *Nutrient Use Efficiency in Plants: Concepts and Approaches* is the ninth volume in the *Plant Ecophysiology* series. It presents a broad overview of topics related to improvement of nutrient use efficiency of crops. Nutrient use efficiency (NUE) is a measure of how well plants use the available mineral nutrients. It can be defined as yield (biomass) per unit input (fertilizer, nutrient content). NUE is a complex trait: it depends on the ability to take up the nutrients from the soil, but also on transport, storage, mobilization, usage within the plant, and even on the environment. NUE is of particular interest as a major target for crop improvement. Improvement of NUE is an essential pre-requisite for expansion of crop production into marginal lands with low nutrient availability but also a way to reduce use of inorganic fertilizer.

Biokerosene Martin Kaltschmitt 2017-08-09 This book provides a detailed overview of aspects related to the overall provision chain for biokerosene as part of the global civil aviation business. Starting with a review of the current market situation for aviation fuels and airplanes and their demands, it then presents in-depth descriptions of classical and especially new types of non-edible biomass feedstock suitable for biokerosene provision. Subsequent chapters discuss those fuel provision processes that are already available and those still under development based on various biomass feedstock materials, and present e.g. an overview of the current state of the art in the production of a liquid biomass-based fuel fulfilling the specifications for kerosene. Further, given the growing interest of the aviation industry and airlines in biofuels for aviation, the experiences of an air-carrier are presented. In closing, the book provides a market outlook for biokerosene. Addressing a broad range of aspects related to the pros and cons of biokerosene as a renewable fuel for aviation, the book offers a unique resource.

Integrated Plant Protection Iu.N. Fadeev 1988-12-31 .

Horticulture: Plants for People and Places, Volume 2 Geoffrey R. Dixon 2014-06-10 This Trilogy explains "What is Horticulture?". Volume two of *Horticulture: Plants for People and Places* analyses in depth the scientific, managerial and ecological concepts which underpin Environmental Horticulture. Chapters describe: Horticulture and the Environment, Woody Ornamentals, Herbs and Pharmaceuticals, Urban Greening, Rural Trees, Urban Trees, Turfgrass Science, Interior and External Landscaping, Biodiversity, Climate Change and Organic

Production. Each is written by leading international experts. Sustainable use of resources and careful conservation are critically essential for the continuation of life on this Planet. Achieving this is where horticulture, natural flora and fauna and the environment interact in achieving sustainable development. Horticulture is the fundamental partner of ecological and environmental science and provides an understanding of eco-system services. Live plant networks are essential for rural and urban life. They are integral parts of natural communities, the context of historic and modern architecture and a means for rejuvenating cities and uniting communities. Plants provide urban, peri-urban and rural employment, business and tourism opportunities, leisure, rest and relaxation. These facets of Environmental Horticulture are clearly described in this book.

Minerals Yearbook 2007

More Crop Per Drop Meredith Giordano 2007-01-01 This volume is an analytical summary and a critical synthesis of research at the International Water Management Institute over the past decade under its evolving research paradigm known popularly as 'more crop per drop'. The research synthesized here covers the full range of issues falling in the larger canvas of water-food-health-environment interface. Besides its immediate role in sharing knowledge with the research, donor, and policy communities, this volume also has a larger purpose of promoting a new way of looking at the water issues within the broader development context of food, livelihood, health and environmental challenges. More crop per drop: Revisiting a research paradigm contrasts the acquired wisdom and fresh thinking on some of the most challenging water issues of our times. It describes new tools, approaches, and methodologies and also illustrates them with practical application both from a global perspective and within the local and regional contexts of Asia and Africa. Since this volume brings together all major research works of IWMI, including an almost exhaustive list of citations, in one single set of pages, it is very valuable not only as a reference material for researchers and students but also as a policy tool for decision-makers and development agencies.

Fertigation Uzi Kafkafi 2011

Field Crops and Vegetables United States. Bureau of the Census 1942

A History of the Cuban Revolution Aviva Chomsky 2015-02-02 A fully-revised and updated new edition of a concise and insightful socio-historical analysis of the Cuban revolution, and the course it took over five and a half decades. Now available in a fully-revised second edition, including new material to add to the book's coverage of Cuba over the past decade under Raul Castro All of the existing chapters have been updated to reflect recent scholarship Balances social and historical insight into the revolution with economic and political analysis extending into the twenty-first century Juxtaposes U.S. and Cuban perspectives on the historical impact of the revolution, engaging and debunking the myths and preconceptions surrounding one of the most formative political events of the twentieth century Incorporates more student-friendly features such as a timeline and glossary

Reassessing Lukashenka G. Ioffe 2014-10-05 What are the factors of Lukashenka's longevity at the helm of power? This question is addressed in the context of Belarusian history and identity, not as an outcome of a form of government deceitfully imposed on an allegedly benighted people whom better positioned and informed outsiders seek to enlighten and liberate.

Sustainable Soil Management Deirdre Rooney 2013-03-22 Changing land-use practices and the role of soil biological diversity has been a major focus of soil science research over the past couple of decades—a trend that is likely to continue. The information presented in this book points to a holistic approach to soil management. The first part looks at the land use effects on soil carbon storage, and considers a range of factors including carbon sequestration in soils. The second part of the book presents research investigating the interactions between soil properties, plant species, and the soil biota.

Editor & Publisher Market Guide 1948

Turfgrass: Science and Culture James B Beard 1972 A classic and best-selling text for sod and turfgrass courses covering lawnkeeping and athletic groundskeeping.

Advances in Integrated Soil Fertility Management in sub-Saharan Africa: Challenges and Opportunities Andre Bationo 2007-10-16 Food insecurity is a fundamental challenge to human welfare and economic growth in Africa. Low agricultural production leads to low incomes, poor nutrition, vulnerability to risk and threat and lack of empowerment. This book offers a comprehensive synthesis of agricultural research and development experiences from sub-Saharan Africa. The text highlights practical lessons from the sub-Saharan Africa region.

Hydroponics for the Home Grower Howard M. Resh 2015-02-09 Hydroponics offers many advantages to traditional soil-based horticulture. These include greater control over many of the

limiting factors, such as light, temperature, and pests, as well as the ability to grow plants in all seasons. With instruction from one of the top recognized authorities worldwide, *Hydroponics for the Home Grower* gives you step-by-step guidance on how to grow tomatoes, peppers, cucumbers, eggplant, lettuce, arugula, bok choy, and various herbs year-round within your home or in a backyard greenhouse. Read an Interview with Dr. Resh here With Dr. Howard Resh's help, you'll learn: Background information on how hydroponics evolved The nutritional and environmental demands of plants and how to control these factors How to provide formulations of nutrients optimal to the plants you wish to grow The many different hydroponic systems you can purchase or build for yourself Designs for different types of greenhouses with components to fit your personal taste and budget Crop selection and step-by-step procedures, including seeding, transplanting, training, pest and disease control, and harvesting—along with when to plant and when to change crops How you can grow microgreens on your kitchen counter The book includes an appendix with sources of seeds and other supplies, along with helpful websites and lists of books, articles, and conferences on growing hydroponically and caring for your crops. By following the guidelines in this book, you'll understand everything you need to know to get your home-growing operation up and running in no time.

World Agricultural Supply and Demand Estimates 2007

Precision Crop Protection - the Challenge and Use of Heterogeneity Erich-Christian Oerke 2010-08-03 Precision farming is an agricultural management system using global navigation satellite systems, geographic information systems, remote sensing, and data management systems for optimizing the use of nutrients, water, seed, pesticides and energy in heterogeneous field situations. This book provides extensive information on the state-of-the-art of research on precision crop protection and recent developments in site-specific application technologies for the management of weeds, arthropod pests, pathogens and nematodes. It gives the reader an up-to-date and in-depth review of both basic and applied research developments. The chapters discuss I) biology and epidemiology of pests, II) new sensor technologies, III) applications of multi-scale sensor systems, IV) sensor detection of pests in growing crops, V) spatial and non-spatial data management, VI) impact of pest heterogeneity and VII) precise mechanical and chemical pest control.

Physiology of Crop Production N.K. Fageria 2006-05-16 This single volume explores the theoretical and the practical aspects of crop physiological processes around the world The marked decrease over the past century in the land available for crop production has brought about mounting pressure to increase crop yields, especially in developing nations. *Physiology of Crop Production* provides cutting-edge research and data for complete coverage of the physiology of crop production, all in one source, right at your fingertips. This valuable reference gives the extensive in-depth information soil and crop professionals need to maximize crop productivity anywhere the world. Leading soil and plant scientists and researchers clearly explain theory, practical applications, and the latest advances in the field. Crop physiology is a vital science needed to understand crop growth and development to facilitate increases of plant yield. *Physiology of Crop Production* presents a wide range of information and references from varying regions of the world to make the book as complete and broadly focused as possible. Discussion in each chapter is supported by experimental data to make this book a superb resource that will be used again and again. Chapter topics include plant and root architecture, growth and yield components, photosynthesis, source-sink relationship, water use efficiency, crop yield relative to water stress, and active and passive ion transport. Several figures and tables accompany the extensive referencing to provide a detailed, in-depth look at every facet of crop production. *Physiology of Crop Production* explores management strategies for: ideal plant architecture maximizing root systems ideal yield components maximizing photosynthesis maximizing source-sink relationship sequestration of carbon dioxide reducing the effects of drought improving N, P, K, Ca, Mg, and S nutrition improving micronutrient uptake *Physiology of Crop Production* is an essential desktop resource for plant physiologists, soil and crop scientists, breeders, agronomists, agronomy administrators in agro-industry, educators, and upper-level undergraduate and graduate students.

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