



The USE of
NUTRIENTS
in CROP
PLANTS

N.K. Fageria



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The Use Of Nutrients In Crop Plants Nand Kumar Fageria

**Nand Kumar Fageria, Virupax C.
Baligar, Charles Allan Jones**



The Use Of Nutrients In Crop Plants Nand Kumar Fageria:

The Use of Nutrients in Crop Plants Nand Kumar Fageria,2016-04-19 Put Theory into Practice Scarcity of natural resources higher costs higher demand and concerns about environmental pollution under these circumstances improving food supply worldwide with adequate quantity and quality is fundamental Based on the author s more than forty years of experience The Use of Nutrients in Crop Plants Growth and Mineral Nutrition of Field Crops Nand Kumar

Fageria, Virupax C. Baligar, Charles Allan Jones,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 **The Role of Plant Roots in Crop Production** Nand Kumar Fageria,2012-07-23

The Role of Plant Roots in Crop Production presents the state of knowledge on environmental factors in root growth and development and their effect on the improvement of the yield of annual crops This book addresses the role of roots in crop production and includes references to numerous annual crops In addition it brings together the issues and the state of the art technologies that affect root growth with comprehensive reviews to facilitate efficient sustainable economical and environmentally responsible crop production Written for plant scientists crop scientists horticulturalists and soil scientists plant physiologists breeders environmental scientists agronomists and undergraduate and graduate students in different disciplines of agricultural science **The Role of Plant Roots in Crop Production** Addresses root architecture and development dynamics to help users improve crop productivity Emphasizes crop production plant nutrition and soil chemistry relative to root growth and functions Covers root morphology root functions nutrient and water uptake by roots root soil interactions root environment interactions root microbe interactions physiology of root crops and management practices to improve root growth Supports content with experimental results and additional data is presented with pictures Increasing food production worldwide has become a major issue in the 21st century Stagnation in grain yield of important food crops in recent years in developed as well as developing countries has contributed to a sharp increase in food prices Furthermore higher grain yield will be needed in the future to feed a burgeoning world population with a rising standard of living that requires more grain per capita Technologies that enhance productivity ensure environmental safety and conserve natural resources are required to meet this challenge **Phosphorus Management in Crop Production** Nand Kumar Fageria, Zhenli He, Virupax C.

Baligar,2017-02-17 The world population is projected to reach nine billion by 2050 and in the coming years global food demand is expected to increase by 50% or more Higher crop productivity gains in the future will have to be achieved in developing countries through better natural resources management and crop improvement After nitrogen phosphorus P has more widespread influence on both natural and agricultural ecosystems than any other essential plant element It has been estimated that 5.7 billion hectares of land worldwide contain insufficient amounts of available P for sustainable crop

production and P deficiency in crop plants is a widespread problem in various parts of the world. However, it has been estimated that worldwide minable P could last less than 40 years. For sustaining future food supplies, it is vital to enhance plant P use efficiency. To bring the latest knowledge and research advances in efficient management of P for economically viable and environmentally beneficial crop production in sustainable agriculture, *Phosphorus Management in Crop Production* contains chapters covering functions and diagnostic techniques for P requirements in crop plants, P use efficiency and interactions with other nutrients in crop plants, management of P for optimal crop production and environmental quality, and basic principles and methodology regarding P nutrition in crop plants. The majority of research data included are derived from many years of field, greenhouse, and lab work, hence the information is practical in nature and will have a significant impact on efficient management of P fertilizers to enhance P use efficiency, improve crop production, promote sustainable agriculture, and reduce P losses through eluviations, leaching, and erosion to minimize environmental degradation. A comprehensive book that combines practical and applied information, *Phosphorus Management in Crop Production* is an excellent reference for students, professors, agricultural research scientists, food scientists, agricultural extension specialists, private consultants, fertilizer companies, and government agencies that deal with agricultural and environmental issues.

Nitrogen Management in Crop Production Nand Kumar Fageria, 2014-06-25. One of the main approaches for safeguarding food security, sustainable development has increased demand for knowledge on fertilizer management in crop production. Among essential plant nutrients, nitrogen is one of the most important yield-limiting nutrients, mainly responsible for determining yield and yield components in cereals and legumes. It is the third most important cereal crop after wheat and corn. Rice is a staple food for more than half of the world's population. This includes regions of high population density and rapid growth, indicating that rice will continue to be a major food crop in the next century. *Mineral Nutrition of Rice* brings together a wealth of information on the ecology, growth, and mineral nutrition of field crops. *Mineral Nutrition of Rice* N.K. Fageria, 2013-08-22. The third most important cereal crop after wheat and corn, rice is a staple food for more than half of the world's population. This includes regions of high population density and rapid growth, indicating that rice will continue to be a major food crop in the next century. *Mineral Nutrition of Rice* brings together a wealth of information on the ecophysiology and nutrient requirements of rice. Compiling the latest scientific research, the book explains how to manage essential nutrients to maximize rice yield. The book examines 15 essential or beneficial nutrients used in irrigated upland and floating

rice across a range of geographic regions For each mineral the text details the cycle in the soil plant system as well as the mineral s functions deficiency symptoms uptake in plants harvest index and use efficiency It then outlines management practices covering application methods and timing adequate rates the use of efficient genotypes and more The author an internationally recognized expert in mineral nutrition for crop plants also proposes recommendations for the judicious use of fertilizers to reduce the cost of crop production and the risk of environmental pollution Color photographs help readers identify nutrient deficiency symptoms and take the necessary corrective measures Packed with useful tables and illustrations this comprehensive reference guides readers who want to know how to increase rice yield reduce production costs and avoid environmental pollution from fertilizers It offers practical information for those working in agricultural research fields in laboratories and in classrooms around the world

Nitrogen Management in Crop Production Nand Kumar

Fageria,2014-06-25 One of the main approaches for safeguarding food security sustainable development has increased demand for knowledge on fertilizer management in crop production Among essential plant nutrients nitrogen is one of the most important yield limiting nutrients mainly responsible for determining yield and yield components in cereals and legumes It is also responsible for the activation of many enzymes and of course plays an important role in photosynthesis With a recovery efficiency of less than 50 percent in most cropping systems a large portion of the nitrogen applied as fertilizer is not used by plants creating environmental and economic issues Nitrogen Management in Crop Production covers the critical aspects for the judicious use of nitrogen in cropping systems This includes appropriate methods of nitrogen application effective source and timing of application during crop growth cycles use of an adequate application rate to avoid loss and reduce cost use of nitrogen efficient crop genotypes and use of legumes that fix sufficient amounts of atmospheric nitrogen There is also a chapter on organic matter and its role in sustainability This book presents recent information from the international literature making it relevant for most agroecological regions Chapters provide experimental results to aid in practical application of the information The book contains color photos of nitrogen deficiency symptoms to serve as a guide for important crop species such as rice dry bean wheat soybean and corn It also includes numerous tables and figures providing an easy to read reference

Technical Manpower Council of Scientific & Industrial Research (India),1974

Phosphorus Management in Crop Production Nand Kumar Fageria,Zhenli He,Virupax C. Baligar,2017-02-17 The world population is projected to reach nine billion by 2050 and in the coming years global food demand is expected to increase by 50% or more Higher crop productivity gains in the future will have to be achieved in developing countries through better natural resources management and crop improvement After nitrogen phosphorus P has more widespread influence on both natural and agricultural ecosystems than any other essential plant element It has been estimated that 5 7 billion hectares of land worldwide contain insufficient amounts of available P for sustainable crop production and P deficiency in crop plants is a widespread problem in various parts of the world However it has been estimated that worldwide

minable P could last less than 40 years For sustaining future food supplies it is vital to enhance plant P use efficiency To bring the latest knowledge and research advances in efficient management of P for economically viable and environmentally beneficial crop production in sustainable agriculture Phosphorus Management in Crop Production contains chapters covering functions and diagnostic techniques for P requirements in crop plants P use efficiency and interactions with other nutrients in crop plants management of P for optimal crop production and environmental quality and basic principles and methodology regarding P nutrition in crop plants The majority of research data included are derived from many years of field greenhouse and lab work hence the information is practical in nature and will have a significant impact on efficient management of P fertilizers to enhance P use efficiency improve crop production promote sustainable agriculture and reduce P losses through eluviations leaching and erosion to minimize environmental degradation A comprehensive book that combines practical and applied information Phosphorus Management in Crop Production is an excellent reference for students professors agricultural research scientists food scientists agricultural extension specialists private consultants fertilizer companies and government agencies that deal with agricultural and environmental issues **The Indian Journal of Agricultural Sciences** ,2015-07 Répertoire des thèses de doctorat européennes Université de Liège. Bibliothèque,1972

Reportorium van doctorale proefschriften ,1972 Pesquisa agropecuária Brasileira ,1990 **Growth and Mineral Nutrition of Field Crops** N. K. Fageria,V. C. Baligar,C. Allan Jones,1991 Emphasizing soil as the substrate for plant growth this volume examines climate soil plant relationships governing growth and mineral nutrition of most vital temperate and tropical field crops around the world including cereal legume and pasture crops Covers recent studies of genetic physiolog

Physiology of Crop Production N.K. Fageria,V.C. Baligar,Ralph Clark,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

Nutrient Use Efficiency: from Basics to Advances Amitava Rakshit, Harikesh Bahadur Singh, Avijit Sen, 2014-12-26 This book addresses in detail multifaceted approaches to boosting nutrient use efficiency NUE that are modified by plant interactions with environmental variables and combine physiological microbial biotechnological and agronomic aspects Conveying an in depth understanding of the topic will spark the development of new cultivars and strains to induce NUE coupled with best management practices that will immensely benefit agricultural systems safeguarding their soil water and air quality Written by recognized experts in the field the book is intended to provide students scientists and policymakers with essential insights into holistic approaches to NUE as well as an overview of some successful case studies In the present understanding of agriculture NUE represents a question of process optimization in response to the increasing fragility of our natural resources base and threats to food grain security across the globe Further improving nutrient use efficiency is a prerequisite to reducing production costs expanding crop acreage into non competitive marginal lands with low nutrient resources and preventing environmental contamination The nutrients most commonly limiting plant growth are N P K S and micronutrients like Fe Zn B and Mo NUE depends on the ability to efficiently take up the nutrient from the soil but also on transport storage mobilization usage within the plant and the environment A number of approaches can help us to understand NUE as a whole One involves adopting best crop management practices that take into account root induced rhizosphere processes which play a pivotal role in controlling nutrient dynamics in the soil plant atmosphere continuum New technologies from basic tools like leaf color charts to sophisticated sensor based systems and laser land leveling can reduce the dependency on laboratory assistance and manual labor Another approach concerns the development of crop plants through genetic manipulations that allow them to take up and assimilate nutrients more efficiently as well as identifying processes of plant responses to nutrient deficiency stress and exploring natural genetic variation Though only recently introduced the ability of microbial inoculants to induce NUE is gaining in importance as the loss immobilization release and availability of nutrients are mediated by soil microbial processes

Crops as Enhancers of Nutrient Use R Duncan, 2012-12-02 Crops as Enhancers of Nutrient Use examines the various plant and soil factors that contribute to nutrient use efficiency of plants It attempts to address policies regarding Low Input Sustainable Agriculture LISA conservation oriented cropping systems and reductions in environmental contaminants It also presents longer term remedies to some of the inherent problems of high volume applications of expensive fertilizer nutrients This book emphasizes plant soil

interaction particularly nutritional interactions involving rhizosphere microbes and stress on the root system Stress factors include moisture and low and high pH The book also covers the genetic and physiological response of plant to nutrients at the cellular level on a whole plant basis and when subjected to stress This book will contribute to the development of a more cost effective and judicious nutrient usage of major crops

Principles of Plant Nutrition Konrad Mengel, Ernest A. Kirkby, 2012-12-06 This is the 5th edition of a well established book Principles of Plant Nutrition which was first published in 1978 The same format is maintained as in previous editions with the primary aim of the authors to consider major processes in soils and plants that are of relevance to plant nutrition This new edition gives an up to date account of the scientific advances of the subject by making reference to about 2000 publications An outstanding feature of the book which distinguishes it from others is its wide approach encompassing not only basic nutrition and physiology but also practical aspects of plant nutrition involving fertilizer usage and crop production of direct importance to human nutrition Recognizing the international readership of the book the authors as in previous editions have attempted to write in a clear concise style of English for the benefit of the many readers for whom English is not their mother tongue The book will be of use to undergraduates and postgraduates in Agriculture Horticulture Forestry and Ecology as well as those researching in Plant Nutrition

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