

Doug Johnson



Roots, Nutrient and Water Influx, and Plant Growth

ASA Special Publication Number 49

Roots Nutrients And Water Influx And Plant Growth

Brendan G. Carr



Roots Nutrients And Water Influx And Plant Growth:

Roots, Nutrient and Water Influx, and Plant Growth David M. ed Kral,1984 *Roots, Nutrient and Water Influx, and Plant Growth* Soil Science Society of America,1990 *Roots* S A. Barber,1984 **Roots** Jun J. Abe,2013-04-17 The root is the organ that functions as the interface between the plant and the earth environment Many human management practices involving crops forests and natural vegetation also affect plant growth through the soil and roots Understanding the morphology and function of roots from the cellular level to the level of the whole root system is required for both plant production and environmental protection This book is at the forefront of plant root science rhizology catering to professional plant scientists and graduate students It covers root development stress physiology ecology and associations with microorganisms The chapters are selected papers originally presented at the 6th Symposium of the International Society of Root Research where plant biologists ecologists soil microbiologists crop scientists forestry scientists and environmental scientists among others gathered to discuss current research results and to establish rhizology as a newly integrated research area *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 *Tomato Plant Culture* J. Benton Jones Jr.,2007-08-03 While tomatoes continue to be one of the most widely grown plants the production and distribution of tomato fruits have been changing worldwide Smaller flavorful tomatoes are becoming more popular than beefsteak tomatoes greenhouse grown tomatoes have entered the marketplace and home

gardeners are using the Internet to obtain information for g **Bibliographies and Literature of Agriculture** ,1978

Hydroponics J. Benton Jones Jr.,2016-04-19 Revolutionary hydroponic soilless advances are being achieved by efficiently improving results with the application of new concepts methods and equipment The new edition of a bestseller Hydroponics A Practical Guide for the Soilless Grower has been revised to reflect these advances with new chapters that provide essential information on greenh *Advances in Agronomy* ,1988-02-01 Advances in Agronomy **Crops Residue Management** J. L. Hatfield,2018-01-18 Recent changes in the Conservation Compliance Plans for farmers shows the need for improved information on the effective management of crop residues Residue management requires an understanding of the crop soil and climate in which the farming system is located In this volume the strategies for effective residue management are described for each region of the country to provide a comparison of the regional differences The chapters not only describe the knowledge in each region but also suggest some of the needed areas of research required to develop an improved understanding of the processes involved in effective residue management World Soybean Research Conference III Richard Shibles,2022-02-26 This volume consists of full length manuscripts of 159 of the 165 invited papers presented at World Soybean Research Conference III that was held in the Scheman Continuing Education Building at Iowa State University August 12 17 1984 The authors widely recognized as world authorities in their fields represent all aspects of soybean research activity breeding and genetics crop and soil management economics entomology food science international programs nematology pathology physiology plant nutrition rhizobiology utilization and weed science This proceedings which contains more than 1200 pages of information including many tables and figures represents the most extensive compilation of soybean research results since the previous proceedings were published in 1980 It should be of value to research scientists students and administrators alike *Genetic Aspects of Plant Mineral Nutrition* W.H. Gabelman,B.C. Loughman,2012-12-06 This volume presents the proceedings of the Second International Symposium on Genetic Aspects of Plant Mineral Nutrition held in Madison Wisconsin in 1985 The mechanisms by which plants acquire transport and utilize essential mineral nutrients are highly complex The means by which plants either exclude or tolerate ions of metals toxic to plants are equally complex The first symposium attempted to convene research scientists concerned with mineral nutrition for the purpose of exploring the kinds of mineral nutrition phenomena identified as being under genetic control The first symposium also placed much emphasis on research to which genetic intervention might be applied At the second symposium more papers were presented on genetic and breeding research a long term objective of the first symposium The second symposium also included biotic interactions under genetic control that either enhanced or impeded ion uptake e.g. mycorrhizae and nitrogen fixing bacteria This continuing dialogue is essential for a research area the complexity of which is due to its interdisciplinary nature **Vadose Zone Hydrology** Daniel B. Stephens,2018-02-06 Vadose Zone Hydrology describes the elements of the physical processes most often encountered by hydrogeologists and ground water engineers in

their vadose zone projects It illustrates the application of soil physics to practical problems relevant to the characterization and monitoring of the vadose zone It includes an introduction to physical processes including basic flow theory and provides examples of important field scale processes that must be recognizable by hydrogeologists Considerable attention is given to the concepts of recharge including how it is most accurately evaluated in the vadose zone Field and laboratory methods for characterizing hydraulic properties in the vadose zone are also covered and case studies illustrating these methods are provided New and emerging technologies for monitoring the vadose zone particularly for the purpose of detecting contaminants are highlighted In the last section of the book additional case studies are presented demonstrating applications related to seepage detection landfill monitoring and soil gas investigations This book is written from the perspective of hydrogeologists and is designed to be directly applicable and to maintain continuity and consistency between chapters It will be an invaluable primer for environmental or geotechnical consultants regulators or students who have no prior formal academic training in unsaturated flow concepts Because the text contains some of the latest advances in this field it will be an excellent reference for geologists and engineers currently working on problems of vadose zone hydrology

Nitrogen in Organic Wastes Bozzano G Luisa, 2012-12-02 Organic wastes are traditionally applied to land to recover their fertilizer value but the microbial turnover of such organic matter in soil is often out of phase with the requirements of growing plants Therefore nutrients may be lost and may even act as potential pollutants of water and air posing a particular challenge to agricultural and environmental engineers This book addresses both experimental and modeling methodology under the main headings of nitrogen and carbon transformations gaseous losses chemical means of controlling nitrification and nitrate leaching The articles are based on material presented at a specialized seminar held under the auspices of ISWA and DAKOFA at Aalborg University Denmark in September 1988

Earthworm Ecology Clive A. Edwards, 2004-03-29 Earthworm Ecology Second Edition updates the most comprehensive work available on earthworm ecology with extensive revisions of the original chapters New chapters analyze the history of earthworm research the importance of earthworms as representatives of soil fauna and how they affect plant growth the effects of the invasion of exotic earthworms into North America and other regions and vermiculture and vermicomposting in Europe This well illustrated expansive study examines the important and often overlooked impact earthworms have on the environment It discusses the impact of climate soil properties predation disease and parasitism and competition upon earthworm ecology

Booker Tropical Soil Manual J.R. Landon, 2014-01-27 First published in 1991 This is a more portable version of the Booker Tropical Soil Manual in which the format and weight of the first edition have been reduced whilst retaining as much as possible of the original clarity It also includes new content and appendices that cover the revised FAO publications on soil classification and on water quality for agriculture

CRREL Report, 1950

Root Physiology: from Gene to Function Hans Lambers, Timothy D. Colmer, 2006-02-03 In the last decade enormous progress has been made on the physiology of plant roots including on a wide range of molecular aspects Much of

that progress has been captured in the chapters of this book Breakthroughs have been made possible through integration of molecular and whole plant aspects The classical boundaries between physiology biochemistry and molecular biology have vanished There has been a strong focus on a limited number of model species including *Arabidopsis thaliana* That focus has allowed greater insight into the significance of specific genes for plant development and functioning However many species are very different from *A. thaliana* in that they are mycorrhizal develop a symbiosis with N₂ fixing microsymbionts or have other specialised root structures Also some have a much greater capacity to resist extreme environments such as soil acidity salinity flooding or heavy metal toxicities due to specific adaptations Research on species other than *A. thaliana* is therefore pivotal to develop new knowledge in plant sciences in a comprehensive manner This fundamental new knowledge can be the basis for important applications in e.g. agriculture and plant conservation Although significant progress has been made much remains to be learnt It is envisaged that discoveries made in the recent past will likely lead to major breakthroughs in the next decade

Soil Nutrient Bioavailability Stanley A. Barber, 1995-04-03 This richly illustrated edition of an established classic deals with the chemistry and biology of soil nutrient availability Provides information regarding the elements present in soils and the extent to which these elements can be used by plants in order to grow Nutrient uptake by plant roots rhizosphere microorganisms and application of the mechanistic uptake model as well as such elements as phosphorus potassium and water are among the topics discussed

Radionuclides in the Environment Clemens Walther, Dharmendra K. Gupta, 2015-10-30 This book provides extensive and comprehensive information to researchers and academicians who are interested in radionuclide contamination its sources and environmental impact It is also useful for graduate and undergraduate students specializing in radioactive waste disposal and its impact on natural as well as manmade environments A number of sites are affected by large legacies of waste from the mining and processing of radioactive minerals Over recent decades several hundred radioactive isotopes radioisotopes of natural elements have been produced artificially including ⁹⁰Sr ¹³⁷Cs and ¹³¹I Several other anthropogenic radioactive elements have also been produced in large quantities for example technetium neptunium plutonium and americium although plutonium does occur naturally in trace amounts in uranium ores The deposition of radionuclides on vegetation and soil as well as the uptake from polluted aquifers root uptake or irrigation are the initial point for their transfer into the terrestrial environment and into food chains There are two principal deposition processes for the removal of pollutants from the atmosphere dry deposition is the direct transfer through absorption of gases and particles by natural surfaces such as vegetation whereas showery or wet deposition is the transport of a substance from the atmosphere to the ground by snow hail or rain Once deposited on any vegetation radionuclides are removed from plants by the airstream and rain either through percolation or by cuticular scratch The increase in biomass during plant growth does not cause a loss of activity but it does lead to a decrease in activity concentration due to effective dilution There is also systemic transport translocation of radionuclides within the plant

subsequent to foliar uptake leading the transfer of chemical components to other parts of the plant that have not been contaminated directly

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