

DEVELOPMENTS IN PLANT AND SOIL SCIENCES

The Role of Legumes in the Farming Systems of the Mediterranean Areas

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Role Of Legumes In The Farming Systems Of The Mediterranean Areas

Nigel Maxted, Sarita Jane Bennett



Role Of Legumes In The Farming Systems Of The Mediterranean Areas:

The Role of Legumes in the Farming Systems of the Mediterranean Areas A.E. Osman,M.M. Ibrahim,M.A.

Jones,1990-01-31 Legumes are an important source of protein for humans and animals They provide nutritionally rich crop residues for animal feed and play a key role in maintaining the productivity of soils particularly through biological nitrogen fixation They are therefore of immense value in rainfed farming systems The International Center for Agricultural Research in the Dry Areas ICARDA has a responsibility for research on food pasture and forage legumes The Center also has the broad objective of improving livestock production in rainfed farming systems Although food legumes have been known and grown by farmers in the WANA region for a long time their productivity has remained low and variable Forage legumes on the other hand are not so well known by farmers of the region and their role in the farming systems is not so well understood Thus we need to develop the concept of using forage legumes as crops and to fit them into cropping systems In its efforts to increase the productivity of food legumes and develop the legume based crop livestock systems ICARDA has established a network of scientists in the different National Agricultural Research Systems in the region To further strengthen this network ICARDA convened a workshop on The Role of Legumes in the Farming Systems of Mediterranean Areas in Tunis Tunisia 20-24 June 1988 This workshop was co sponsored by UNDP who also contributed funds for this publication

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Plant Genetic Resources of Legumes in the Mediterranean Nigel Maxted, Sarita Jane Bennett, 2013-03-14 Genetic erosion that is the loss of native plant and genetic diversity has been exponential from the Mediterranean Basin through the Twentieth century This careless eradication of species and genetic diversity as a result of human activities from a hot spot of diversity threatens sustainable agriculture and food security for the temperate regions of the world Since the early 1900s there has been a largely ad hoc movement to halt the loss of plant diversity and enhance its utilisation The Convention on Biological Diversity and Food and Agriculture Organisation of the United Nations International Undertaking on Plant Genetic Resources both highlight the need to improve conservation methodologies and enhance utilisation techniques It has been argued that the most important component of biodiversity is the genetic diversity of crop and forage species used to feed humans and livestock These cultivated and related wild species provides the raw material for further selection and improvement Leguminosae species are of major economic importance peas chickpeas lentils and faba beans as well as numerous forage species and provide a particularly rich source of protein for human and animal foods Their distribution is concentrated in the Mediterranean region and therefore the improvement of their conservation and use in the region is critical This text is designed to help ensure an adequate breadth of legume diversity is conserved and to help maximise the use of that conserved diversity The subjects of conservation and use of legume diversity the Mediterranean ecosystem and taxonomy of legumes are introduced Generic reviews of the taxonomy centre of diversity ecogeographic distribution genetic diversity distribution conservation status conservation gaps and future research needs are provided along with a discussion of the importance of rhizobia to the maintenance of legume diversity Current ex situ and in situ conservation activities as well current legume uses are reviewed In conclusion future priorities for ex situ and in situ plant genetic conservation and use of Mediterranean legumes are highlighted All contributors look forward rather than simply reviewing past and current activities and therefore it is hoped that the identification of genetic erosion location of taxonomic and genetic diversity and promotion of more efficient

utilisation of conserved material will be enhanced **Linking Research and Marketing Opportunities for Pulses in the 21st Century** R. Knight, 2012-12-06 Proceedings of the Third International Food Legumes Research Conference

Challenges and Strategies of Dryland Agriculture S.C. Rao, 2011-01-01 The world has made remarkable progress in maintaining adequate food supplies during the past quarter century by introducing yield increasing technologies such as better genetics crop protection products and more efficient use of fertilizers and irrigations Far more people depend on irrigation in the modern world than during the times of ancient Sumeria The spread of irrigation has been the key factor in increasing global crop yields But future scarcity present the single biggest threat to future food production The shift of water from agriculture to the growing cities and industry almost certainly will impact global food production This means that dryland agriculture will be increasingly important in meeting food requirement for the growing population Advances in plant genetics and agronomic conservation technologies when considered in concert continue to provide the greatest opportunities to achieve sustainability and profitability in dryland agriculture and will continue to be the focus of the ARS research program The ARS is please to join the crop Science Society of America and international center for Agriculture Research in Dry Areas ICARDA in sponsoring a symposium Challenges and strategies for Dryland Agriculture at the Trisocieties Annual Meeting in November 2002 at Indianapolis IN This special publication contains an impressive series of paper by international group of experts on dryland agricultural production conservation and policy The principles philosophies and technologies presented in this publication have the potential to contribute to improve food security and livelihoods for the people in dryland regions of the world Bibliography of Agriculture ,1990 **Advances in Legumes for Sustainable**

Intensification Ram Swaroop Meena, Sandeep Kumar, 2022-06-29 Advances in Legume based Agroecosystem for Sustainable Intensification explores current research and future strategies for ensuring capacity growth and socioeconomic improvement through the utilization of legume crop cultivation and production in the achievement of sustainability development goals SDGs Sections cover the role of legumes in addressing issues of food security improving nitrogen in the environment environmental sustainability economic environmentally optimized systems the importance and impact of nitrogen organic production and biomass potential legume production biology breeding improvement cropping systems and the use of legumes for eco friendly weed management This book is an important resource for scientists researchers and advanced students interested in championing the effective utilization of legumes for agronomic and ecological benefit Focuses on opportunities for agricultural impact and sustainability Presents insights into both agricultural sustainability and eco intensification Includes the impact of legume production on societal impacts such as health and wealth management Plant-Soil Interactions at Low pH: Principles and Management R.A. Date, N.J. Grundon, G.E. Rayment, M.E. Probert, 2012-12-06 The understanding of plant soil interactions in acid soils is important for improved food production in many parts of the world The context of the book touches on basic and applied aspects of the physics chemistry and biology of acid soils and their effect on

growth of plants It contains a large section on management of acid soils for plant food production and on socioeconomic aspects of management of acid soils This is important because a large portion of the world's acid soils occurs in less developed countries Plant Soil Interactions at Low pH Principles and Management contains a substantial number of papers including nine invited reviews presented at the Third International Symposium of Plant Soil Interactions at Low pH The major themes include chemistry and physics of acid soils microbial and faunal activity in acid soils mechanisms of acid tolerance of plants selection and breeding of acid tolerant plants diagnosis and correction of acid soil infertility socioeconomic aspects of acid soil management and management systems for agriculture horticulture and forestry on acid soils The Significance and Regulation of Soil Biodiversity Harold P. Collins, G. Philip Robertson, Michael J.

Klug, 2012-12-06 The sustainability of both natural and managed ecosystems is strongly influenced by soil biological processes A major question in soil biology and ecosystem ecology is the extent to which these processes are affected by the function and structure of the soil's biotic community The Significance and Regulation of Soil Biodiversity presents the discussions of a group of soil biologists and ecosystem ecologists in which they synthesize available information present innovative methodologies and develop cross taxa and cross habitat collaborations to advance our understanding of soil biodiversity The volume addresses the extent and regulation of soil biodiversity and describes initial approaches to the linking of soil biodiversity and ecosystem function Audience Researchers and students in a wide range of environmental scientific disciplines Isotopic Studies of Azolla and Nitrogen Fertilization of Rice K.S. Kumarasinghe, D.L.

Eskew, 2012-12-06 Nitrogen is the most limiting element for crop production Traditionally expensive commercial fertilizers are used to correct soil nitrogen deficiencies Indeed 50% of the increase in rice yields after World War II can be attributed to increased fertilizer nitrogen use Although an increased rate of fertilizer nitrogen application has been advocated to meet the growing demand for food it is unrealistic to advise the farmers to apply fertilizers they could hardly afford and whose prices are likely to escalate in the years ahead In addition when they are not applied judiciously there are problems of environmental pollution as plants are capable of taking up only a relatively small portion of the applied nitrogen a substantial amount being lost through various chemical and biological processes The exploitation of cheaper alternatives or supplements to fertilizers have therefore gained much interest in recent years Our increased interest in biological nitrogen fixation as a supplement or alternative to nitrogen fertilizers led to the convening of a consultants meeting on The Role of Isotopes in Studies on Nitrogen Fixation and Nitrogen Cycling by Blue Green Algae and the Azolla Anabaena azollae Association in Vienna from 11-15 October 1982 The consultants group recommended that the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture embark on a coordinated research programme in this field and that initial emphasis should be placed on Azolla Anabaena symbiosis As a result such a programme was initiated in 1984 which was concluded in 1989 The results and conclusions reported here are those that were generated during the five years of its operation

Nutrient Uptake and Cycling in Forest Ecosystems L.O. Nilsson, Reinhard F. Hüttel, U.T. Johansson, 2012-12-06 From the research results and discussions presented in this book it becomes clear that a profound understanding of the various interrelationships of the nutritional aspects allows the implementation of specific management strategies to improve stability and productivity of forest ecosystems In particular the effects of environmental changes as related to the impacts of air pollution global change and land use on nutrient uptake and cycling processes in forest ecosystems are dealt with in detail The book is divided into six main issues and each topic contains reviews as well as selected results of recent studies

Enhancement of Biological Nitrogen Fixation of Common Bean in Latin America F.A. Bliss, Gudni G. Hardarson, 2012-12-06 The common bean *Phaseolus vulgaris* L is the most important pulse crop in Latin America as well as in large parts of Asia and Africa It is particularly important due to its ability in symbiosis with *Rhizobium* bacteria to fix atmospheric nitrogen and due to its high nutrient value Incorporating contributions from plant breeders microbiologists plant physiologists and soil scientists this volume reports the results of an FAO IAEA Coordinated Research Programme 1985 1991 whose main objective was to enhance yield and biological nitrogen fixation in common bean by reducing its reliance on soil and fertilizer nitrogen The volume will be invaluable to scientists working on biological nitrogen fixation and legume production

Current Issues in Symbiotic Nitrogen Fixation G.H. Elkan, R.G. Upchurch, 2012-12-06 In the 100 years since the legume *Rhizobium* symbiotic nitrogen fixation interaction was first described interest in this field has grown rapidly The types of studies have been cyclical in nature involving a cross section of disciplines The availability of cheap nitrogenous fertilizers caused much of the biological nitrogen fixation research to become more theoretical in the developed world The high cost of energy coupled with environmental concerns and the interest in sustainable agriculture has stimulated research in symbiotic nitrogen fixation The development of modern genetic techniques has resulted in interdisciplinary research on plant microbe interactions controlling nitrogen fixation This has resulted in a better understanding of environmental factors influencing the nodulation process chemical signalling between the symbiotic partners and the nature of the specificity between host plant and microsymbiont This volume summarizes the diverse research efforts in biological nitrogen fixation by presenting a collection of papers in the areas of physiology and metabolism taxonomy and evolution genetics and ecology

Soil and Water Quality at Different Scales Peter A. Finke, Johan Bouma, Marcel R. Hoosbeek, 2013-03-14 Integrated studies on the assessment and improvement of soil and water quality have to deal almost inevitably with issues of scale since the spatial support of measurements the model calculations and the presentation of results usually vary This book contains the selected and edited proceedings of a workshop devoted to issues of scale entitled Soil and Water Quality at Different Scales which was held in 1996 in Wageningen It is intended for environmental researchers scientists and MSc and PhD students Part 1 covers current issues and methodologies with scale related soil and water quality research Part 2 covers agroecological and hydrological case studies in which scale transforms form an important part of the research chain Part 3

consists of papers focusing on methodologies and up and downscaling Part 4 contains review papers based on modellers and statisticians considerations as well as the papers and posters presented during the workshop Part 5 consists of short research notes

Progress in Nitrogen Cycling Studies O. van Cleemput, G. Hofman, A. Vermoesen, 2012-12-06 This book contains the proceedings of the 8th Nitrogen Workshop which was held at the University of Ghent Belgium from 5 to 8 September 1994 Although nitrogen dynamics in different ecosystems have been studied for several decades new orientations and other emphases have recently emerged Previously nitrogen was considered as an essential element mostly in terms of productivity but now more emphasis is attached to environmental consequences More than 100 contributions in this book tackle recent developments within the fields of nitrogen advice systems plant response to fertilization immobilization and mobilization nitrification denitrification leaching ammonia volatilization and biological nitrogen fixation A large number of papers is devoted to the formation of gaseous nitrogen compounds while mineralization immobilization is another topic of important interest The book also contains the reports of discussion groups on different aspects of the nitrogen cycle

Genetic Aspects of Plant Mineral Nutrition P.J. Randall, E. Delhaize, R.A. Richards, Rana Munns, 2012-12-06 The adaptation of desirable agricultural plants to infertile and problem soils is an increasingly important strategy for improving food supplies in many parts of the world The plant breeding approach complements and in some cases may replace agronomic practices such as the use of fertilizers and soil amendments to provide solutions which are economically and environmentally sustainable The Symposium at which the papers in this volume were presented drew together workers in plant breeding plant nutrition physiology biochemistry and molecular biology to discuss research on gene systems which affect the mineral nutrition of plants Papers describe successes in plant breeding for problem soils as well as advances in understanding of mechanisms at the whole plant and cellular levels Papers in the molecular area point the way to the contribution which the new biology will make to this field in the future The reviews and research papers are grouped under five topics Better plants for acid soils Salinity tolerance Efficiency of uptake and use of macronutrients Efficiency for iron and micronutrients Tolerance of heavy metals and boron

Nitrogen Economy in Tropical Soils N. Ahmad, 2012-12-06 Nitrogen Economy in Tropical Soils presents an authoritative and comprehensive state of the art review on soil plant nitrogen inter relationships with special reference to tropical soils and crops in aerobic and anaerobic environments Use of isotopically labelled nitrogen in experimentation especially in tropical environments and recently developed analytical techniques for soil and plant materials are presented An important aspect is the emphasis placed on the impact of the tropical environment on nitrogen transformations in the soil environment This book should be an excellent source of information for senior undergraduate and graduate students with interest in soil plant nitrogen inter relationships and for all levels of research workers in these fields

Plant Nutrition — from Genetic Engineering to Field Practice J. Barrow, 1993 Proceedings of the Twelfth International Plant Nutrition Colloquium 21-26 September 1993 Perth Western Australia

Intensified

Systems of Farming in the Tropics and Subtropics J. A. N. Wallis, 1997-01-01 Environmentally Sustainable Development Studies and Monographs Series No 19 Five years have passed since the United Nations Conference on Environment and Development better known as the Rio Earth Summit Almost all the countries of the world attended the conference and committed themselves to the policies and programs laid out in Agenda 21 the action plan of the summit The World Bank and other international agencies have sought to be active partners in implementing the agenda This report is part of the Bank's current efforts to review the progress made over the past five years and to make plans for improved effectiveness for the future The paper is divided into two parts Part I looks at the broad picture assessing some of the large challenges for the future and outlining thematic principles Part II provides concise reviews of the majority of the chapters of Agenda 21 and relates them to the standpoint of Bank activities

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