

IMPROVING FORAGE AND SEED YIELD IN TEMPERATE FORAGE LEGUMES

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Summary: Forage legume breeding at IGER is building on the strong agronomic platform in modern varieties to incorporate key traits that can deliver environmental and quality benefits. The role of genetic improvement in improving product quality, reducing diffuse pollution of nitrogen (N) and phosphorus (P) in soil and water and enabling both mitigation of, and adaptation, to climate change is described. The paper discusses the introgression of traits from the closely related species *Trifolium ambiguum* and *T. nigrescens* into *T. repens* (white clover), which has improved tolerance of soil moisture deficit and increased seed yields. The role of legumes in improving product quality is also discussed.

Key words: Forage legumes, genetic improvement, forage, seed, sustainability

INTRODUCTION

Forage legumes are an integral component of sustainable livestock production systems because of their ability to fix atmospheric N that is then available to the companion grass and as a source of safe, home-grown, traceable protein (Frame and Newbould, 1986). White clover (*Trifolium repens* L.) breeding at IGER has made significant advances in developing varieties with enhanced forage yield, persistence and tolerance of fertiliser N (Abberton and Marshall, 2005). The increased demand for a source of home-grown protein and expansion of the organic sector, in which red clover is an integral part of rotations led to the red clover (*T. pratense*) breeding programme recommencing in 1997. This has focused on the development of early and late flowering diploid and tetraploid varieties that are high yielding and persistent. Seed of the first variety from that programme is now commercially available.

Reform of the Common Agricultural Policy (CAP), concerns about diffuse pollution of N and P in the context of the EU Water Framework Directive (WFD) and the impact of climate change have resulted in an increasing emphasis on multi-functional grassland systems, and a greater focus on the role of grassland in delivering ecosystem services. This paper outlines breeding targets and approaches, the challenges in combining improvements in agronomic traits whilst maintaining adequate seed yields and describes how molecular approaches are being combined with conventional plant breeding.

Temperate Forage Legumes

J. G. McIvor, R. A. Bray



Temperate Forage Legumes:

Temperate Forage Legumes John Frame, J. F. L. Charlton, A. Scott Laidlaw, 1998 The major temperate forage legumes are of global importance in the sustainable productivity of ruminant feed in the developed world This book brings together in one volume all aspects of their basic biology and associated production practices Emphasis is placed on the importance of understanding plant characteristics and their consequences in terms of forage output quality and utilization by livestock Recent research advances are reviewed and put into context and several recently commercialised species are also covered The introduction considers the history current extent benefits and limits of temperate forage legume usage Subsequent chapters are dedicated to a comprehensive examination of each forage species in turn dealing with their origin morphology physiology ecology nitrogen fixing capability cultivars seed production nutritive value and productivity The key factors for optimal management are identified and the prospects for the future outlined including the potential arising from the use of biotechnology This book is essential reading for degree and postgraduate students of plant science agronomy and animal production Additionally students and researchers in ecology and environmental science will also find it a valuable resource The management sections will be of particular value to grassland advisers consultants and progressive land users *Forage Legumes for Temperate Grasslands* John Frame, 2019-08-22 With the underpinning role of forage legumes in the nitrogen economy and animal productivity from temperate grasslands certain to expand in the future particularly in regions where their potential has not yet been realized it is essential that the wealth of information currently available is widely disseminated This book serves the purpose with Forage Plant Ecophysiology Cory Matthew, 2018-03-16 This book is a printed edition of the Special Issue Forage Plant Ecophysiology that was published in Agriculture **Managing Plant Production Under Changing Environment** Mirza Hasanuzzaman, Golam Jalal Ahammed, Kamrun Nahar, 2022-02-22 This comprehensive edited volume collects the most recent information with up to date citations on the decrease in plant productivity under climatic changes and its link with global food security The book emphasis on the crop management practices and recent advancement in the techniques for mitigating the negative effects of climate induced biotic and abiotic stress It brings together 19 chapters developed by eminent researchers in the area of plant and environmental sciences Global climate change is increasingly becoming a concern for future of agriculture High levels of inorganic and organic pollutants and climatic stress adversely affects the sensitive and complex equation of natural resources and ecosystem services To meet the increased food demand plant productivity needs to be enhanced therefore this book fills in the gap and brings together information on the physiological and molecular approaches for improving crop productivity The book is resourceful reading material for researchers faculty members graduate and post graduate students of plant science agriculture agronomy soil science botany Molecular biology and environmental science *The Encyclopedia of Seeds* J. Derek Bewley, Michael Black, Peter Halmer, 2006 This is the first scholarly reference work to cover all the major scientific

themes and facets of the subject of seeds It outlines the latest fundamental biological knowledge about seeds together with the principles of agricultural seed processing storage and sowing the food and industrial uses of seeds and the roles of seeds in history economies and cultures With contributions from 110 expert authors worldwide the editors have created 560 authoritative articles illustrated with plentiful tables figures black and white and color photographs suggested further reading matter and 670 supplementary definitions The contents are alphabetically arranged and cross referenced to connect related entries

Forage Seed Production: Temperate species Daphne T. Fairey, John G. Hampton, 1997 The grasses and legumes grown in pastures and rangelands form the basis of the worldwide animal production industry Some species also have a significant role in the sport and leisure industry for playing surfaces such as golf courses and football fields It is therefore vitally important to ensure that seed supplies of appropriate species are available for use on a commercial scale This book is published in association with the International Herbage Seed Production Research Group It brings together leading researchers and along with its companion volume *Forage Seed Production Volume 2 Tropical and Subtropical Species* to be published in late 1998 provides the definitive resource for all those concerned with breeding and profitable seed production for grasses and legumes used within grazing systems or recreation and amenity provision The book is in two parts Part 1 covers all aspects relevant to seed production including improving seed yield and quality crop management harvesting processing and the international seed trade Part 2 consists of eleven case studies from eight countries covering three continents This book and its companion should be read by all seed scientists involved in the breeding and commercial production of grass and legume seed They also represent a valuable asset for all commercial seed suppliers Additionally the information presented within the book is important for all students and lecturers within departments of agriculture and plant breeding

Forage Legumes for Temperate Grasslands Food and Agriculture Organization, John Frame, **Forage Legumes for Temperate Grasslands** John Frame, Food and Agriculture Organization of the United Nations, 2005

Introduction Plant Development Nitrogen Fixation Sward Establishment Seed Mixtures Nitrogen and Mineral Nutrition Weeds Pests and Diseases Feeding Value Utilization Forage Legume Profiles Concluding Remarks Opportunities for

Agroforestry in the Temperate Zone Worldwide, 1994 *Plant Parasitic Nematodes in Temperate Agriculture* Ken

Evans, David L. Trudgill, John Malcolm Webster, 1993 Extraction identification and control of plant parasitic nematodes Modelling population dynamics and yield losses and their use in nematode management Nematode parasites of potatoes Nematode parasites of sugarbeet Nematode pests of vegetable crops Nematode pests of oilseed crops and grain legumes Nematode pests of cereals Nematode pests of grassland and forage crops Nematode pests of forest trees Nematode pests of deciduous fruit and nut trees Nematode pests of soft fruits and vines Nematode pests of ornamental and bulb crops Nematode pest of glasshouse crops and mushrooms Molecular aids to nematode diagnosis Entomogenous and entomopathogenic nematodes in biological control Quarantine problems and solutions Cellular and molecular approaches to

the control of plant parasitic nematodes *Growth, Development, and Composition of Temperate Forage Legumes and Grasses in Varying Environments* Christer Ohlsson,1991 Temperate Forage Legumes as a Source of Nitrogen for Other Crops Soledad Bergos Ariztegui,1992 Bibliography of Agriculture with Subject Index ,1988-10 Genetic Resources of Forage Plants J. G. McIvor,R. A. Bray,1983 Genetic resources of forage plants Diseases of Forage Grasses in Humid Temperate Zones ,1986 **Handbook of Plant and Crop Stress** Mohammad Pessarakli,1994 Soil salinity and sodicity problems Plants crops and stressful condiyions Plant and crop response to salt water and other envirommental stress conditions Molecular bilogy and microbiological aspects of plant responses under salt water and other envirommental stress conditions Empirical investigations of specific plants and crops grown under saline drought and other environmental stress conditions Future promise plants and crops for cultivation under stressful conditions Irrigating crops with low quality water Benefical aspects of stress **Agrindex** ,1991 **Collection, Characterization and Utilization of Genetic Resources of Temperate Forage Grass and Clover** International Board for Plant Genetic Resources,1987 **Food and Forage Legumes of Ethiopia** Kemal Ali,2006 *Nutrition of the Legumes* E. G. Hallworth,1958

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