



# SEED BIOLOGY AND YIELD OF GRAIN CROPS

2ND EDITION

Dennis B. Egli

 **CABI**

# Seed Biology And The Yield Of Grain Crops

**Jeffrey Amthor, Seth Pritchard**



## **Seed Biology And The Yield Of Grain Crops:**

Seed Biology and Yield of Grain Crops, 2nd Edition Dennis B Egli, 2017-02-23 This new edition of an established title examines the determination of grain crop yield from a unique perspective by concentrating on the influence of the seed itself. As the food supply for an expanding world population is based on grain crops harvested for their seeds, understanding the process of seed growth and its regulation is crucial to our efforts to increase production and meet the needs of that population. Yield of grain crops is determined by their assimilatory processes such as photosynthesis and the biosynthetic processes in the seed which are partly regulated within the seed itself. Substantially updated with new research and further developments of the practical applications of the concepts explored, this book is essential reading for those concerned with seed science and crop yield, including agronomists, crop physiologists, plant breeders and extension workers. It is also a valuable source of information for lecturers and graduate students of agronomy and plant physiology.

**Seed Biology and Yield of Grain Crops**, 19?? **Handbook of Seed Physiology** Roberto Benech-Arnold, Rodolfo S?nchez, 2004-09-21 The latest findings in seed physiology discussed as they relate to agricultural problems. Presenting the latest findings in the area of seed physiology as well as the practical applications of that knowledge in the field, the *Handbook of Seed Physiology: Applications to Agriculture* provides a comprehensive view of seed biology and it.

Handbook of Seed Science and Technology Amarjit Basra, 2024-11-01 A reference text with the latest information and research for educators, students and researchers. World hunger and malnutrition remain an alarming concern that spurs researchers to develop quality technology. The *Handbook of Seed Science and Technology* is an extensive reference text for educators, students, practitioners and researchers that focuses on the underlying mechanisms of seed biology and the impact of powerful biotechnological approaches on world hunger, malnutrition and consumer preferences. This comprehensive guide provides the latest available research from noted experts, pointing out the likely directions of future developments as it presents a wealth of seed biology and technological information. Seed science is the all important foundation of plant science study. The *Handbook of Seed Science and Technology* provides an integrative perspective that takes you through the fundamentals to the latest applications of seed science and technology. This resource provides a complete overview divided into four sections: Seed Developmental Biology and Biotechnology, Seed Dormancy and Germination, Seed Ecology and Seed Technology. The *Handbook of Seed Science and Technology* examines the molecular control of ovule development, female gametophyte development, cytokinins and seed development, grain number determination in major grain crops, metabolic engineering of carbohydrate supply in plant reproductive development, enhancing the nutritive value of seeds by genetic engineering, the process of accumulation of seed proteins and using biotechnology to improve crops, synthetic seeds, dormancy and germination, hormonal interactions during dormancy release and germination, photoregulation of seed germination, seed size, seed predation, natural defense mechanisms in seeds, seed protease inhibitors, soil seed banks, the ecophysiological basis of

weed seed longevity in the soil seed quality testing seed vigor and its assessment diagnosis of seed borne pathogens seed quality in vegetable crops vegetable hybrid seed production practical hydration of seeds of tropical crops seed technology in plant germplasm The Handbook of Seed Science and Technology is extensively referenced and packed with tables and diagrams and makes an essential source for students educators researchers and practitioners in seed science and technology

**Crop Physiology Case Histories for Major Crops** Victor Sadras, Daniel Calderini, 2020-12-05 Crop Physiology Case Histories of Major Crops updates the physiology of broad acre crops with a focus on the genetic environmental and management drivers of development capture and efficiency in the use of radiation water and nutrients the formation of yield and aspects of quality These physiological process are presented in a double context of challenges and solutions The challenges to increase plant based food fodder fiber and energy against the backdrop of population increase climate change dietary choices and declining public funding for research and development in agriculture are unprecedented and urgent The proximal technological solutions to these challenges are genetic improvement and agronomy Hence the premise of the book is that crop physiology is most valuable when it engages meaningfully with breeding and agronomy With contributions from 92 leading scientists from around the world each chapter deals with a crop maize rice wheat barley sorghum and oat quinoa soybean field pea chickpea peanut common bean lentil lupin and faba bean sunflower and canola potato cassava sugar beet and sugarcane and cotton A crop based approach to crop physiology in a G x E x M context Captures the perspectives of global experts on 22 crops

**Bacteria in Agrobiology: Crop Productivity** Dinesh K. Maheshwari, Meenu Saraf, Abhinav Aeron, 2013-06-28 The future of agriculture greatly depends on our ability to enhance productivity without sacrificing long term production potential The application of microorganisms such as the diverse bacterial species of plant growth promoting rhizobacteria PGPR represents an ecologically and economically sustainable strategy The use of these bio resources for the enhancement of crop productivity is gaining importance worldwide Bacteria in Agrobiology Crop Productivity focus on the role of beneficial bacteria in crop growth increased nutrient uptake and mobilization and defense against phytopathogens Diverse group of agricultural crops and medicinal plants are described as well as PGPR mediated bioremediation leading to food security

**The Soybean** Guriqbal Singh, 2010 The soybean is a crop of global importance and is one of most frequently cultivated crops worldwide It is rich in oil and protein used for human and animal consumption as well as for industrial purposes Soybean plants also play an important role in crop diversification and benefit the growth of other crops adding nitrogen to the soil during crop rotation With contributions from eminent researchers from around the world The Soybean provides a concise coverage of all aspects of this important crop including genetics and physiology varietal improvement production and protection technology utilization and nutritional value

*Crop Physiology* Victor Sadras, Daniel Calderini, 2014-09-17 From climate change to farming systems to genetic modification of organisms Crop Physiology Second Edition provides a practical tool for understanding the relationships and challenges of successful cropping With a focus on

genetic improvement and agronomy this book addresses the challenges of environmentally sound production of bulk and quality food fodder fiber and energy which are of ongoing international concern The second edition of Crop Physiology continues to provide a unique analysis of these topics while reflecting important changes and advances in the relevant science and implementation systems Contemporary agriculture confronts the challenge of increasing demand in terms of quantitative and qualitative production targets These targets have to be achieved against the background of soil and water scarcity worldwide and regional shifts in the patterns of land use driven by both climate change and the need to develop crop based sources of energy and the environmental and social aspects of agricultural sustainability Provides a view of crop physiology as an active source of methods theories ideas and tools for application in genetic improvement and agronomy Written by leading scientists from around the world Combines environment specific cropping systems and general principles of crop science to appeal to advanced students and scientists in agriculture related disciplines from molecular sciences to natural resources management

**Genetic and Production Innovations in Field Crop Technology** Manjit S.

Kang,2005-12-15 Get cutting edge information to improve crop breeding and productivity Crop improvement will become progressively important over the next few decades as the world s population is expected to top 10 billion people with more than eight billion in developing countries alone Genetic and Production Innovations in Field Crop Technolog **Physiology of Soybean Plant** P Basuchaudhuri,2020-11-01 The book provides in depth knowledge on the physiology of soybean It is written lucidly systematically and in depth The book provides recent information and findings explained with illustrations to express the ideas and concepts vividly to university students and researchers and provides a better understanding of the improvement of the productivity of soybean to cope with the future demand It describes the physiology of growth development flowering pod development and seed yield as well as C O N and Oil metabolisms their hormonal regulations under normal and stress environmental conditions Molecular approaches are also described **Recent Advancements in**

**Gene Expression and Enabling Technologies in Crop Plants** Kasi Azhakanandam,Aron Silverstone,Henry Daniell,Michael R. Davey,2015-03-03 In this book authors who are experts in their fields describe current advances on commercial crops and key enabling technologies that will underpin future advances in biotechnology They discuss state of the art discoveries as well as future challenges Tremendous progress has been made in introducing novel genes and traits into plant genomes since the first creation of transgenic plants thirty years ago and the first commercialization of genetically modified maize in 1996 Consequently cultivation of biotech crops with useful traits has increased more than 100 fold from 1 7 million hectares in 1996 to over 175 million hectares globally in 2013 This achievement has been made possible by continued advances in understanding the basic molecular biology of regulatory sequences to modulate gene expression enhancement of protein synthesis and new technologies for transformation of crop plants This book has three sections that encompass knowledge on genetically modified GM food crops that are currently used by consumers those that are

anticipated to reach the market place in the near future and enabling technologies that will facilitate the development of next generation GM crops Section I focuses only on genetically modified maize and soybean 3 chapters each while Section II discusses the GM food crops rice wheat sorghum vegetables and sugar cane Section III covers exciting recent developments in several novel enabling technologies including gene targeting minichromosomes and in planta transient expression systems

*Physiological Bases for Maize Improvement* Gustavo A Slafer, Maria E Otegui, 2024-11-01 Improve the quantity and quality of maize crops in any environment While isolated examples of the physiological bases for genetic improvement of maize yield can be found in several papers most of which are cited in this book there has not until now been a single volume that delivers and clarifies all of the available information in this field Today *Physiological Bases for Maize Improvement* offers scientists and crop growers a thorough and concise guide to recent literature and developments about increasing the crop efficiency of corn In *Physiological Bases for Maize Improvement* international experts in the field discuss and analyze methods of effectively improving crop breeding and producing better and larger yields of corn *Physiological Bases for Maize Improvement* delivers clear thorough discussions of improving maize grain yield potential in a cool environment improving maize grain yield potential in the tropics processes affecting maize grain yield potential in temperate conditions maize improvement for drought limited conditions apical dominance herbivory resistance and competitive ability the use of simulation models for crop improvement and much more With this book you will find ways to improve maize crops in a variety of countries and climates and understand the importance of kernel numbers and kernel growth to the overall yield Containing current research and case studies *Physiological Bases for Maize Improvement* provides you with vital strategies that will improve the quality and quantity of corn and increase plant functionality and fitness **Applied Crop Physiology**

Dennis B. Egli, 2021-08-24 This book presents a simple straightforward discussion of the principles and processes involved in the production of grain yield by agronomic crops and how these processes underlie and influence management decisions The focus is on grain crops principally maize and soybean although the general principles apply equally well to cereals grain legumes and oil crops Intended for researchers in crop science agronomy and plant science and crop production practitioners this book will enable readers to make better more informed management decisions decisions that will help maintain a well fed world in the future **Advances in Agronomy**, 2004-07-17 *Advances in Agronomy* continues to be

recognized as a leading reference and a first rate source of the latest research in agronomy Major reviews deal with the current topics of interest to agronomists as well as crop and soil scientists As always the subjects covered are varied and exemplary of the myriad subject matter dealt with by this long running serial Editor Donald Sparks former president of the Soil Science Society of America and current president of the International Union of Soil Science is the S Hallock du Pont Chair of Plant and Soil Sciences at The University of Delaware Volume 83 contains five excellent reviews that discuss topics critical to agricultural and environmental sustainability Maintains the highest impact factor among serial publications in

Agriculture Presents timely reviews on important agronomy issues Enjoys a long standing reputation for excellence in the field

**Crops and Environmental Change** Jeffrey Amthor, Seth Pritchard, 2005-02-07 Examine important global environmental changes that will affect the future of agriculture Here is a complete introduction to the influence of global environmental changes on the structure function and harvestable yield of major field crops It gives you an in depth look at the effects of climate change air pollution and soil salinization The book provides an introduction to the ramifications both positive and negative of these ongoing environmental changes for present and future crop production and food supply Crops and Environmental Change An Introduction to Effects of Global Warming Increasing Atmospheric CO<sub>2</sub> and O<sub>3</sub> Concentrations and Soil Salinization on Crop Physiology and Yield integrates a discussion of the physiological effects of environmental change with background information on basic topics in plant physiology Numerous charts tables and figures are included to assist in understanding the empirical effects of the environment on crops Topics addressed in Crops and Environmental Change include the effects of increasing global atmospheric carbon dioxide concentration climatic changes associated with increasing atmospheric concentrations of carbon dioxide and other greenhouse gases the effects of increasing ozone concentrations in the lower atmosphere across large crop growing regions soil salinization in areas of irrigated crops the causes and trajectories of ongoing environmental changes the implications of environmental changes on the future of crop production and much more The information in this book is appropriate for newcomers to the field as well as for seasoned professionals It is written in language accessible to those new to the area and serves as a good jumping off point for more in depth study And since it is organized like a traditional plant physiology textbook it is appropriate for students in the field For experienced professionals it acts as a handy refresher reference tool on the basics of plant physiology Crops and Environmental Change is a valuable resource for anyone concerned with the future of agriculture Make it part of your professional teaching collection today

Plants, Genes, and Crop Biotechnology Maarten J. Chrispeels, David E. Sadava, 2003 This book integrates many fields to help students understand the complexity of the basic science that underlies crop and food production

*Advances in seed science and technology for more sustainable crop production* Dr Julia Buitink, Professor Olivier Leprince, 2022-07-26 Considers best practices for ensuring seed quality and health such as phenotyping and non invasive techniques including hyper spectral imaging and x rays Provides a comprehensive review of our understanding of seed biology and the impact of genetic and environmental factors in determining seed longevity dormancy and rate of seedling emergence Assesses key challenges facing seed science including the need to mitigate the effects of climate change on seed quality and production

*Wheat in a Global Environment* Z. Bedo, L. Láng, 2013-06-29 Wheat breeders have achieved significant results over the last fifty years in research on mankind s one of the most important crops Classical genetic and breeding methods far broader international cooperation than was experienced in earlier periods and improvements in agronomic techniques have led to previously unimaginable development in the utilisation of wheat for

human consumption The contribution of wheat researchers is particularly noteworthy since these results have been achieved at a time when the world population has grown extremely dynamically Despite this demographic explosion of a proportion never previously experienced thousands of millions of people have been saved from starvation thus avoiding unpredictable social consequences and situations irreconcilable with human dignity Despite these developments in many regions of the world food supplies are still uncertain and the increase in the world s wheat production has not kept pace with the population increase during the last decade Due to the evils of civilisation and the pollution of the environment there is a constant decline in the per capita area of land suitable for agricultural production Based on population estimates for 2030 the present wheat yield of around 600 million tonnes will have to be increased to almost 1000 million tonnes if food supplies are to be maintained at the present level

**Soybean** Tzi-Bun Ng,2011-04-26 Soybean is an agricultural crop of tremendous economic importance Soybean and food items derived from it form dietary components of numerous people especially those living in the Orient The health benefits of soybean have attracted the attention of nutritionists as well as common people

Wheat Quality For Improving Processing And Human Health Gilberto Igrejas,Tatsuya M. Ikeda,Carlos Guzmán,2020-03-17 Wheat Quality for Improving Processing and Human Health brings together an international group of leading wheat scientists to outline highly relevant and diverse aspects and the latest advances in understanding of the world s most consumed cereal Topics covered include LMW glutenins starch related proteins and the impact of processing on composition and consumer health Individual chapters focus on important factors such as FODMAPs protein structure dough viscoelasticity and fumonisins The environmental effects on allergen content are comprehensively covered as are phenolic compounds and molecular markers The major quality screening tools and genetic resources are reviewed in depth Gluten is a major focus of this work with chapters dedicated to health effects analytical methods and standards proteomics and mutant proteins Starting in 2015 wheat quality scientists from across the globe have united to develop the Expert Working Group for Improving Wheat Quality for Processing and Health under the umbrella of the Wheat Initiative This joint effort provides a framework to establish strategic research and organisation priorities for wheat research at the international level in both developed and developing countries This Expert Working Group aims to maintain and improve wheat quality for processing and health under varying environmental conditions The Group focuses on a broad range of wheat quality issues including seed proteins carbohydrates nutrition quality and micronutrient content grain processing and food safety Bioactive compounds are also considered both those with negative effects such as allergens and mycotoxins and those with positive effects such as antioxidants and fibre The Group also works in the development of germplasm sets and other tools that promote wheat quality research Wheat quality specialists working on the wheat value chain and nutritionists will find this book a useful resource to increase and update their knowledge of wheat quality nutrition and health issues



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