



# SEED BIOLOGY AND YIELD OF GRAIN CROPS

2ND EDITION

Dennis B. Egli

 **CABI**

# Seed Biology And The Yield Of Grain Crops

**Dinesh K. Maheshwari, Meenu  
Saraf, Abhinav Aeron**



## **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 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      **Handbook of Seed Physiology** Roberto Benech-Arnold, Rodolfo Sánchez, 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      **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      **Genetic and Production Innovations in Field Crop Technology** Manjit S. Kang, 2005-12-09 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 Technology New Developments in Theory and Practice tackles this enormous challenge by detailing the latest available research and innovations for crop breeders and physiologists for the twenty first century Respected multidisciplinary scientists comprehensively discuss cutting edge advances in field crop technology and genetic production as they keep an eye on the goal of providing nutrition to a hungry world Genetic and Production Innovations in Field Crop Technology emphasizes an integrated approach to solve global crop production problems and increase crop productivity Crop research experts review methods of globally improving crop yield food product efficiency and providing adequate nutrition in diet The authors discuss various types of field crops including corn soybeans winter wheat cassavas rubber sunflowers and barley as well as review the exciting innovations on the food production horizon The text is extensively referenced and includes useful graphs and tables to clearly present data Genetic and Production Innovations in Field Crop Technology presents visionary articles by authorities in agricultural sciences statistical design axioms and modern plot techniques discussions of integration of crop physiology and plant breeding information on systematic collection and preservation of germplasm explanations of genetic diversity in soybeans corn breeding and production research including the economics in the United States research on cassava breeding in less favorable environments to alleviate poverty strategies for improving yielding potential of rubber in sub optimal environments information on fine tuning wheat genotype by environment interaction methodology reviews of QTL identification mega environment classification and effective strategies for marker based selection via GGE biplot analyses research on statistical properties and practical usefulness of the Scheffe Calinski and Shukla models relative to genotype by environment interaction Genetic and Production Innovations in Field Crop Technology New Developments in Theory and Practice belongs in every agricultural university library Crop breeders geneticists agronomists and horticulturists educators and students will find this an invaluable research source for now and for the future      **The Soybean** Gurqbal 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 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 Agrobiolology: 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 Agrobiolology 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

*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

*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      **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      *Seeds* J. Derek Bewley,Kent Bradford,Henk Hilhorst,hiroyuki nonogaki,2012-10-23 This updated and much revised third edition of *Seeds Physiology of Development Germination and Dormancy* provides a thorough overview of seed biology and incorporates much of the progress that has been made during the past fifteen years With an emphasis on placing information in the context of the seed this new edition includes recent advances in the areas of molecular biology of development and germination as well as fresh insights into dormancy ecophysiology desiccation tolerance and longevity Authored by preeminent authorities in the field this book is an invaluable resource for researchers teachers and students interested in the diverse aspects of seed biology      **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

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 **Physiological Efficiency**

**for Crop Improvement** A. Hemantaranjan, 2015-05-01 Plant Physiology is in essence the foundation of plant molecular biology This volume would be tremendously a productive reference book for acquiring advanced knowledge by faculties post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Forestry Soil Science Agronomy Horticulture and Botany **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.

**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.

*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.

**Agroecosystems in a Changing Climate** Paul C.D. Newton, R. Andrew Carran, Grant R. Edwards, Pascal A. Niklaus, 2006-09-01. *Agroecosystems in a Changing Climate* considers the consequences of changes in the atmosphere and climate on the integrity, stability and productivity of agroecosystems. The book adopts a novel approach by bringing together theoretical contributions from ecologists and the applied interpretations of agriculturalists. Drawing these two approaches



## Unveiling the Magic of Words: A Report on "**Seed Biology And The Yield Of Grain Crops**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Seed Biology And The Yield Of Grain Crops**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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