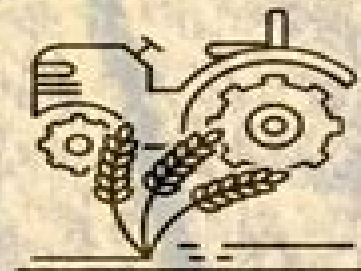


# Crop respiration rates

- Understanding crop respiration rates is crucial for optimizing plant growth and yield
- Respiration in plants involves converting sugars into energy, releasing carbon dioxide and water as byproducts
- Factors such as temperature, water availability, and crop type influence these rates
- Knowing how to manage and adjust for these factors can lead to more efficient agricultural practices and enhanced food production

## Practical example: Agriculture

- Crop respiration rates are crucial in agriculture for determining the growth and health of plants
- This biological process involves plants taking in oxygen and releasing carbon dioxide, directly impacting their energy production
- Understanding this helps farmers manage crop yields and growth cycles more efficiently
- By analyzing respiration rates, agriculturalists can improve farming methods to enhance productivity and sustainability



# Respiration Crop Productivity

**Jeffrey S. Amthor**



## **Respiration Crop Productivity:**

**Respiration and Crop Productivity** Jeffrey S. Amthor, 1989-06-23 Respiration is a large and important component of the carbon economy of crops. There are already several good books dealing with the biochemistry and physiology of plant respiration but there are none I know of that are devoted to the relationship between respiration and crop productivity although this relationship is more and more frequently being studied with both experiment and simulation. Crop physiology books do cover respiration of course but the treatment is limited. The purpose of the present book is to fill this void in the literature. The approach taken here is to use the popular two component functional model whereby respiration is divided between growth and maintenance components. After thoroughly reviewing the literature I came to the conclusion that at present this is the most useful means of considering respiration as a quantitative component of a crop's carbon economy. This functional distinction is used as the framework for describing respiration and assessing its role in crop productivity. Discussions and critiques of the biochemistry and physiology of respiration serve primarily as a means of more fully understanding and describing the functional approach to studying crop respiration. It is assumed that the reader of this book is familiar with the fundamentals of plant physiology and biochemistry. The research worker in crop physiology should find this an up to date summary of crop respiration and the functional model of respiration. This book is not however a simple review of existing data.

**Respiration and Crop Productivity** Jeffrey S. Amthor, 2012-12-06 Respiration is a large and important component of the carbon economy of crops. There are already several good books dealing with the biochemistry and physiology of plant respiration but there are none I know of that are devoted to the relationship between respiration and crop productivity although this relationship is more and more frequently being studied with both experiment and simulation. Crop physiology books do cover respiration of course but the treatment is limited. The purpose of the present book is to fill this void in the literature. The approach taken here is to use the popular two component functional model whereby respiration is divided between growth and maintenance components. After thoroughly reviewing the literature I came to the conclusion that at present this is the most useful means of considering respiration as a quantitative component of a crop's carbon economy. This functional distinction is used as the framework for describing respiration and assessing its role in crop productivity. Discussions and critiques of the biochemistry and physiology of respiration serve primarily as a means of more fully understanding and describing the functional approach to studying crop respiration. It is assumed that the reader of this book is familiar with the fundamentals of plant physiology and biochemistry. The research worker in crop physiology should find this an up to date summary of crop respiration and the functional model of respiration. This book is not however a simple review of existing data.

Plant Respiration Hans Lambers, Univ. de les Illes Balears, 2006-03-30 Respiration in plants as in all living organisms is essential to provide metabolic energy and carbon skeletons for growth and maintenance. As such respiration is an essential component of a plant's carbon budget. Depending on species and environmental conditions it

consumes 25-75% of all the carbohydrates produced in photosynthesis even more at extremely slow growth rates. Respiration in plants can also proceed in a manner that produces neither metabolic energy nor carbon skeletons but heat. This type of respiration involves the cyanide-resistant alternative oxidase, which is unique to plants and resides in the mitochondria. The activity of this alternative pathway can be measured based on a difference in fractionation of oxygen isotopes between the cytochrome and the alternative oxidase. Heat production is important in some flowers to attract pollinators; however, the alternative oxidase also plays a major role in leaves and roots of most plants. A common thread throughout this volume is to link respiration, including alternative oxidase activity, to plant functioning in different environments.

**Effect of High Temperature on Crop Productivity and Metabolism of Macro Molecules** Amitav Bhattacharya, 2019-06-14. This book presents a comprehensive overview on the direct effect of temperatures defined as high, a definition which increasingly includes a great number of geographic regions. As temperature impacts the number of base growth days, it is necessary to adapt plant selection strategies, planting times, and understand the expected impact of adaptive steps to ensure maximum plant health and crop yield. Global warming, climate change, and change in environmental conditions have become common phrases in nearly every scientific seminar, symposium, and meeting; thus, these changes in climatic patterns constrain normal growth and reproduction cycles. This book reviews the effect of high temperature on agricultural crop production and the effect of high temperature stress on the metabolic aspects of macro molecules, including carbohydrates, proteins, fats, secondary metabolites, and plant growth hormones. It focuses on the effects of high temperature on agriculture and the metabolism of important macro molecules, discusses strategies for improving heat tolerance, thus educating plant and molecular breeders in their attempts to improve efficiencies and crop production. It provides information that can be applied today and in future research.

**Physiology of Nutrition and Environmental Stresses on Crop Productivity** A. Hemantaranjan, 2014-01-01. This book has meticulous research in some of the very sensible and stirring areas of Plant Physiology. Plant Molecular Physiology are indispensably needed for holistic development of agriculture and crop production in different agroclimatic zones. It would be tremendously a productive reference book for acquiring advanced knowledge by post graduate and Ph.D. scholars in response to the innovative courses in Plant Physiology, Plant Biochemistry, Plant Molecular Biology, Plant Biotechnology, Environmental Sciences, Plant Pathology, Microbiology, Soil Science, Agricultural Chemistry, Agronomy, Horticulture, and Botany.

**Physiology of Crop Production** N.K. Fageria, V.C. Baligar, Ralph Clark, 2006-05-18. This single volume explores the theoretical and the practical aspects of crop physiological processes around the world. The marked decrease over the past century in the land available for crop production has brought about mounting pressure to increase crop yields, especially in developing nations. Physiology of Crop Production provides a

**Climate Change and Global Crop Productivity** K. R. Reddy, H. F. Hodges, 2000-04-25. Annotation: Worldwide climatic changes have been raising concerns about potential changes to crop yields and production.

systems Such concerns include the ability to accommodate these uncertain effects in order to ensure an adequate food supply for an increasing population Written by leading international experts this book is the first comprehensive examination of the potential effects climate change particularly green house gases will have on agroecosystems It also reviews the effects such systems have on climate change itself *Crop Productivity* Open Universiteit (Heerlen, Netherlands), University of Greenwich, 1994 The discussion of the quantitative aspects of assessing growth and yield provide the basis for discussing the internal and external environmental factors which influence crop productivity The text examines the effects of both abiotic and biotic factors on crop yields and describes the issues involved in the production of crops in artificial environments The diversification of crops especially into the production of secondary products is also described The need for a cost effective training scheme for new and existing staff at all levels has been met by the University of Greenwich formerly Thames Polytechnic and the Open University of the Netherlands As part of the European Community Education and Technology Training initiative COMETT and in conjunction with a number of other leading UK and European universities they are developing BIOTOL a training scheme in biotechnology using open learning materials which will provide tailor made courses flexible in content pace and place **Handbook of Agricultural Productivity** Miloslav Rechcigl, 2018-01-18 The greatest challenge of our time is to produce sufficient food to keep pace with the rapidly growing population In the opinion of experts during the next 25 years there will be a need for as much food as was produced in the entire history of mankind to date Of the various measures available improvement in agricultural productivity is judged as the ultimate means of augmenting food production and supplies In this Handbook an international team of experts consider the most important factors affecting production of both crops and livestock This Handbook is intended as a scientific guide to practitioners and students as well as to researchers who should find here stimulating ideas for further exploration *Photoassimilate Distribution Plants and Crops Source-Sink Relationships* Eli Zamski, Arthur A. Schaffer, 2017-09-29 Adopting an interdisciplinary approach to the study of photoassimilate partitioning and source sink relationships this work details the major aspects of source sink physiology and metabolism the integration of individual components and photoassimilate partitioning and the whole plant source sink relationships in 16 agriculturally important crops The work examines in detail the components of carbon partitioning such as ecology photosynthesis loading transport and anatomy and discusses the impact of genetic environmental and agrotechnical factors on the parts of whole plant source link physiology *Climatic Risk in Crop Production* Russell C. Muchow, Jennifer A. Bellamy, 1991 *Augmenting Crop Productivity in Stress Environment* Shamim Akhtar Ansari, Mohammad Israil Ansari, Azamal Husen, 2022-05-12 The book inculcates a holistic approach to improve crop productivity and quality for ensuring food security and nutrition to all This warrants to identify various stress conditions prevalent globally and tailor crop adaptability and productivity to the maximum accordingly employing physio molecular modern tools and techniques with judicious amalgamation with conventional crop husbandry As a result the book chapters

encompass diverse environmental factors internal physio molecular processes and their modulations with a final goal of expanding area under cultivation by utilization of constraint terrains of poor site quality and augmenting sustainable crop productivity and quality on the face of rapidly changing climate The book includes role of plant hormones nano sensors nanomaterials etc in stress tolerance responses capturing recent advancement in the field of stress tolerance enlarging scope of coverage by gleaning modern literature and providing glimpses of futuristic scenario of agriculture practices that can render balance staple food rich in nutrition vitamins and minerals to teeming billions of global human populations Thus the book provides a comprehensive overview of the role of stress environment and understanding stress physiology for developing stress tolerant crops The book covers current knowledge and future prospects to achieve enhanced food security under stress environment of crops The renowned contributors elegantly crafted each chapter suited alike to both classroom texts for graduate students and reference material for researchers The language and style are simple and lucid with liberal use of illustrations This book should be on the shelf of university personal libraries for inquisitive students and enlightened researchers

Probing Photosynthesis Mohammad Yunus,Uday Pathre,Prasanna Mohanty,2014-04-21 A thorough understanding of the mechanisms of photosynthesis regulation of structure and function and the adaptive strategies of oxygenic photosynthetic organisms is central to any effort directed at improving crop productivity and providing sustainable agriculture Photosynthesis is the most widely researched topic in plant science Further probing of its mechanisms regulation and adaptation employing a variety of modern tools and techniques is imperative to gain a better insight of this very intricate process Unravelling the cause of stress impairments and stress tolerance in plants would help in ensuring the optimum production of food fibres and fuels Probing Photosynthesis represents the state of the art on photosynthesis and provides details of experimental approaches that have been adopted to understand the complex regulatory and adaptive processes Its twenty seven chapters have been divided into four sections Evolution structure and function Biodiversity metabolism and regulation Stress and adaptations and Techniques With contributions from leading subject experts from Australia Canada France Germany India Israel Japan Sweden Switzerland the UK and USA this comprehensive treatise shall interest researchers and students from all disciplines of plant science and provide a useful reference for courses in plant biochemistry crop physiology plant biotechnology and environmental botany

Photosynthesis and Respiratory Cycles during Environmental Stress Response in Plants Aryadeep Roychoudhury,2022-12-29 This new volume aims to be the single source that discusses in a comprehensive and elaborate way the photosynthetic and respiratory mechanisms in plants under hostile situations and the proper mitigating strategies to continue uninterrupted photosynthesis and respiration under such situations Photosynthesis and respiration are the two main physiological processes for sugar biosynthesis and mobilization for driving all other vital functions This volume delivers a wealth of sound information on these processes for scientists researchers and academicians With chapters from renowned scientists researchers and global leaders this volume focuses on

the effect of environmental stressors on photosynthetic pigments photosystems activities of photosynthetic enzymes and protein complexes PSII photochemistry carbon fixation pathways photosynthetic efficiency glycolytic and Krebs cycle pathways and ATP production and electron transport chain of plants The recovery of photosynthesis and respiration through application of phytohormones signaling molecules and other protective agents are also emphasized Genetic engineering to enhance photosynthetic efficiency is highlighted as well

**Nutrient Dynamics for Sustainable Crop Production** Ram Swaroop Meena, 2019-09-06 The cropping system is one of the important components of sustainable agriculture since it provides more efficient nutrient cycling As such balanced fertilization must be based on the concept of sustainable crop production Feeding the rapidly growing world population using environmentally sustainable production systems is a major challenge especially in developing countries A number of studies have highlighted the fact that degradation of the world's cultivated soils is largely responsible for low and plateauing yields Soil is lost rapidly but only formed over millennia and this represents the greatest global threat to nutrient dynamics in agriculture This means that nutrient management is essential to provide food and nutritional security for current and future generations Nutrient dynamics and soil sustainability imply the maintenance of the desired ecological balance the enhancement and preservation of soil functions and the protection of biodiversity above and below ground Understanding the role of nutrient management as a tool for soil sustainability and nutritional security requires a holistic approach to a wide range of soil parameters biological physical and chemical to assess the soil functions and nutrient dynamics of a crop management system within the desired timescale Further best nutrient management approaches are important to advance soil sustainability and food and nutritional security without compromising the soil quality and productive potential Sustainable management practices must allow environmentally and economically sustainable yields and restore soil health and sustainability This book presents soil management approaches that can provide a wide range of benefits including improved fertility with a focus on the importance of nutrient dynamics Discussing the broad impacts of nutrients cycling on the sustainability of soil and the cropping systems that it supports it also addresses nutrient application to allow environmentally and economically sustainable agroecosystems that restore soil health Arguing that balanced fertilization must be based on the concept of INM for a cropping system rather than a crop it provides a roadmap to nutrient management for sustainability This richly illustrated book features tables figures and photographs and includes extensive up to date references making it a valuable resource for policymakers and researchers as well as undergraduate and graduate students of Soil Science Agronomy Ecology and Environmental Sciences

**Fabrication and Applications of Biomass-Derived Porous Carbon** Kai Yan, Yetao Tang, Rongliang Qiu, 2024-11-05 This book systematically introduces the fundamentals preparation technology state of the art applications and future development of biomass derived porous carbon materials The authors provide a theoretical foundation that demonstrates the microstructure and physicochemical properties of carbon materials The fabrication methods including physical activation methods chemical

activation methods and advances in other new fabrication methods are explicitly described The book also identifies many potential applications of biomass especially biomass derived porous carbon materials such as supercapacitors removal of organic pollutants from water CO<sub>2</sub> capture photocatalytic application and farmland restoration The book will be a valuable resource for researchers scientists and engineers working in the field of biomass derived porous carbon materials carbon resource development and environmental protection

**Soil Quality for Crop Production and Ecosystem Health** E.G. Gregorich, M.R. Carter, 1997-11-10 Soil is a complex body that exists as many types each with diverse properties that may vary widely across time and space as a function of many factors This complexity makes the evaluation of soil quality much more challenging than that of water or air quality Evaluation of soil quality now considers environmental implications as well as economic productivity seeking to be more holistic in its approach Thus soil quality research draws from a wide range of disciplines blending the approaches of biologists physicists chemists ecologists economists and agronomists among others This book presents a broad perspective of soil quality that includes these various perspectives and gives a strong theoretical basis for the assessment of soil quality A short glossary provides definitions for terms used throughout the book

Sustainable Agroecosystems - Principles and Practices ,2025-03-19 In an era where global agriculture faces unprecedented challenges Sustainable Agroecosystems Principles and Practices is a comprehensive guide to fostering resilience and sustainability in farming systems This book explores innovative strategies and practices designed to enhance soil health optimize nutrient and water management and integrate ecological and technological advancements By addressing critical topics such as conservation agriculture agroecological practices precision nitrogen management and biological pest control this book equips researchers practitioners and policymakers with the tools and knowledge needed to transform agricultural landscapes Special emphasis is placed on fostering environmental resilience resource efficiency and the adoption of eco friendly solutions that align with the principles of the circular economy Readers will benefit from the book s multidisciplinary approach which bridges traditional and modern practices to meet the demands of sustainable agriculture Whether you are a seasoned academic an agricultural innovator or a policymaker seeking actionable insights this book provides a rich repository of knowledge and inspiration for achieving sustainable agricultural development worldwide

*Integrated nutrients management: An approach for sustainable crop production and food security in changing climates* Amanullah, Gabrijel Ondrasek , Abdel Rahman Mohmmad Said Al -Tawaha, 2024-06-20 Soil health and fertility are continuously declining due to the removal of essential plant nutrients from the soils in the current changing climate scenario Due to less soil organic carbon SOC and growing of high yielding varieties and hybrids further increases deficiencies of both macro and micronutrients that had a negative impact on soil health crop productivity food security and growers Integrated nutrients management not only increases crop productivity and growers income but also increases soil fertility health and sustainability in changing climates Integrated nutrients management INM refers to the maintenance of soil fertility and



improvement in crop productivity with the application of plant nutrients through the combined application of organic fertilizers animal manures and plant residues chemical fertilizers urea SSP DAP etc and bio fertilizers beneficial microbes

**Terrestrial Global Productivity** Jacques Roy, Bernard Saugier, Harold A. Mooney, 2001 Trophic levels

## **Respiration Crop Productivity** Book Review: Unveiling the Power of Words

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