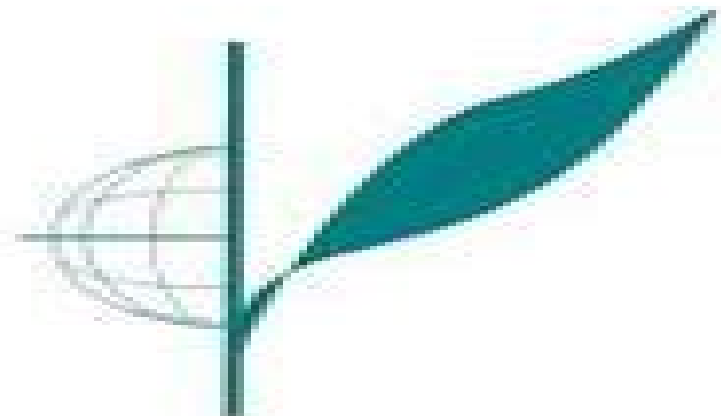


# Potato Ecology and Modelling of Crops under Conditions Limiting Growth

A. J. Haverkort  
D. K. L. MacKerron  
editors



# Ecology And Modeling Of Potato Crops Under Conditions Limiting Growth

**JE Gale**



## **Ecology And Modeling Of Potato Crops Under Conditions Limiting Growth:**

**Potato Ecology And modelling of crops under conditions limiting growth** A.J. Haverkort,D.K.L.

MacKerron,2012-12-06 Potato is the fourth major staple food in the world and is still rapidly gaining importance especially in the tropics In May 1994 the second international potato modelling conference was held in Wageningen the Netherlands as a summerschool of the C T de Wit Graduate School The conference was sponsored by DLO SCRI SSCR W AU and the LEB Fund Over 80 scientists participated coming from 16 countries Of each crop physiological and modelling subject a leading scientist was requested to write a review of the most recent developments in his or her field The reviews with highlights from the authors own work are such that the physiological work described is of interest to the modeller and the modelling work to the crop physiologist Applications of the quantitative approach are also reviewed in the concluding chapters that deal with decision support systems breeding and agro ecological zoning An outstanding point of this book is that both the crop ecology and the modelling of a broad range of biotic and abiotic factors are treated by scientists representing groups which are specialized in the subject The two related disciplines met during the conference and thus wrote the chapters with each other s interest in mind The book highlights the limitations for potato growth and development from the viewpoints of both the crop physiologist and the crop systems analyst Potato Biology and Biotechnology Dick Vreugdenhil,John

Bradshaw,Christiane Gebhardt,Francine Govers,Mark A. Taylor,Donald K.L. MacKerron,Heather A. Ross,2011-08-31 In the past 15 20 years major discoveries have been concluded on potato biology and biotechnology Important new tools have been developed in the area of molecular genetics and our understanding of potato physiology has been revolutionized due to amenability of the potato to genetic transformation This technology has impacted our understanding of the molecular basis of plant pathogen interaction and has also opened new opportunities for the use of the potato in a variety of non food biotechnological purposes This book covers the potato world market as it expands further into the new millennium Authors stress the overriding need for stable yields to eliminate human hunger and poverty while considering solutions to enhance global production and distribution It comprehensively describes genetics and genetic resources plant growth and development response to the environment tuber quality pests and diseases biotechnology and crop management Potato Biology is the most valuable reference available for all professionals involved in the potato industry plant biologists and agronomists Offers an understanding of the social economic and market factors that influence production and distribution Discusses developments and useful traits in transgenic biology and genetic engineering The first reference entirely devoted to understanding new advances in potato biology and biotechnology **Decision support systems in potato production**

D.K.L. MacKerron,A.J. Haverkort,2023-08-28 Models of crop growth and development were conceived originally for scientific purposes Typically they describe the mechanisms of crop production development from emergence through tuber initiation to senescence determined by temperature and day length Growth is driven by solar radiation intercepted by the foliage Yields

are enhanced by the availability of water and nutrients and may be reduced by pests diseases and weeds The scientific models describing the processes involved are leaving the research institutes and increasingly are becoming a means of knowledge transfer for students and most importantly to growers and their intermediaries such as extensionists and consultants Many decision support systems DSS have a mechanistic model core that assures their robustness and reliability This book gives an overview of model based DSS in potato production Decision support systems are used by the processing industry to guide them to promising production areas and by breeders to identify the ideal genotype for such environments Consultants and soil laboratories use them as well as farmers to optimize the use of nitrogen water and chemicals to control insects nematodes late blight and weeds The systems making use of models and sensing techniques improve yield and quality while allowing their users to improve the efficiency of use of resources thus generating positive effects for profits and for the environment The book also gives examples of new introductions of DSS and farmers responses The book is intended for researchers wanting to bring their models to practice students to learn about DSS intermediaries and growers to improve the performance of the potato industry or of other commodities for which potato serves as an example

*Achieving sustainable cultivation of potatoes Volume 2* Dr Stuart Wale, 2018-09-10 Comprehensive coverage of improvements in cultivation techniques across the potato value chain from yield modelling to post harvest storage Detailed review of the main fungal bacterial and viral diseases affecting potatoes Reviews best practices for improving nutrient management in potato cultivation

**Handbook of Potato Production, Improvement, and Postharvest Management** Jai Gopal, S.M. Khurana, 2006-08-11 Potatoes are a crucial food crop around the world grown in nearly 150 countries The Handbook of Potato Production Improvement and Postharvest Management compiles everything you need to know about potato crop production in one well organized reference Leading international authorities clearly discuss the biology genetics breeding diseases and effective approaches for improvement of crop and handling after harvest This one of a kind text explores from interdisciplinary perspectives every aspect of potato crop management from seed germination to end use while presenting the most current research available

**Evapotranspiration** Giacomo Gerosa, 2011-11-09 This book represents an overview of the direct measurement techniques of evapotranspiration with related applications to the water use optimization in the agricultural practice and to the ecosystems study Different measuring techniques at leaf level porometry plant level sap flow lysimetry and agro ecosystem level Surface Renewal Eddy Covariance Multi layer BREB are presented with detailed explanations and examples For the optimization of the water use in agriculture detailed measurements on transpiration demands of crops and different cultivars as well as results of different irrigation schemes and techniques i e subsurface drip in semi arid areas for open field greenhouse and potted grown plants are presented Aspects on ET of crops in saline environments effects of ET on groundwater quality in xeric environments as well as the application of ET to climatic classification are also depicted The book provides an excellent overview for both researchers and student s who intend to

address these issues     *The Epidemiology of Plant Diseases* D.G. Jones,2013-03-09 Most branches of science have what might be termed a core area which is both related to and helps to integrate peripheral topics to form the overall subject area Without this central link the subject is simply a collection of disparate albeit generally related topics What genetics is to plant breeding epidemiology is to the subject of plant pathology and no matter what individual topic is considered it is always possible to recognize the interaction with and relationship to epidemiological factors Broadly speaking until the 1950s plant pathology was considered as the applied side of mycology and indeed the British Society of Plant Pathology was spawned from its mentor the British Mycological Society with considerable help from The Association of Applied Biology However with the exploding world population and the growing demand for food plant pathologists became increasingly aware of the need for a more considered measured precise and even holistic approach to their subject and particularly to plant disease management Looking back over 40 years of teaching and research in plant pathology it was very clear that the core of the subject was epidemiology and that this new study was developing a very distinct identity which was rapidly being recognized in its own right The shotgun approach to plant disease control was quickly perceived to be too inexact and almost every aspect of the subject was being reviewed refined and advanced     **Program report, 1997-98** International Potato

Center,1999-12-01     Eco-regional approaches for sustainable land use and food production Johan Bouma,A.

Kuyvenhoven,B.A.M Bouman,J.C. Luyten,H.G. Zandstra,2012-12-06 In the coming decades the world will need to more than double its food and feed production almost all of the increase being needed in developing countries This has socioeconomic and biophysical implications Traditional component and commodity research addresses overly narrow issues at too small a scale Rural development needs an eco regional approach that integrates biophysical and socioeconomic work on cropping systems livestock the environment and natural resources This book contains the papers response papers and discussion report of a five day seminar on eco regional approaches It assesses the state of the art of systems approaches applied to eco regional problems presenting and discussing a number of case studies Future research needs are discussed as well as ways to improve collaboration between research institutes The seminar on which the book is based was organised on behalf of the Directorate General for International Cooperation of the Netherlands Ministry of Foreign Affairs by the Research Institute for Agrobiology and Soil Fertility AB DLO the Wageningen Agricultural University WAU and the International Potato Centre CIP It was held at the International Service for National Agricultural Research ISNAR and was attended by participants from all CGIAR centres among others     Crop Yield Donald L. Smith,Chantal Hamel,2012-12-06 This book has been prepared for

those seeking a better understanding of the functioning of crop plants particularly the processes that lead to the generation of products valued by human beings The contributors who are among the world's foremost experts on the important crops upon which humanity depends for food or fibre address the relevant processes for their specific crop Currently the world population is continuing to increase It is projected to plateau around the middle of the next century and while there is

considerable controversy regarding the population level when this plateau is achieved most estimates are in the area of 10 000 000 000 At present there are about 800000000 people in the world who do not have secure access to food Over the last 50 years various aspects of agricultural research have been combined to increase the output of world crops approximately 2 5 fold Given the need to feed the increasing population and to provide better access it is predicted that during the next 50 years the agricultural research community must repeat this achievement

Systems Modeling Mukhtar Ahmed,2020-07-13 Achieving food security and economic developmental objectives in the face of climate change and rapid population growth requires systems modelling approaches for example in the design of sustainable agriculture farming systems Such approaches increase our understanding of system responses to different soil and climatic conditions and provide insights into the effects of various variable climate change scenarios providing valuable information for decision makers Further in the agricultural sector systems modelling can help optimise crop management and adaptation measures to boost productivity under variable climatic conditions Presenting key outcomes from crop models used in agricultural systems this book is a valuable resource for professionals interested in using modelling approaches to manage the growth and improve the quality of various crops

*Cropping Systems Modeling Under Changing Climate* Mukhtar Ahmed,Shakeel Ahmad,Ghulam Abbas,Sajjad Hussain,Gerrit Hoogenboom,2024-05-29 This book aims at bringing out comprehensive information on cropping systems modelling in the world The major focus of this book is to address the integration of soil plant and environmental interactions for climate smart agriculture This book covers aspects of application of Decision Support System for Agrotechnology Transfer DSSAT for climate smart agriculture Step by step details of application of modelling approaches used for various cropping systems under changing climate are provided which are being adopted by farmers in the world The book is enriched with figures or diagrams to show the various mechanisms involved to support the decision making for climate change adaptations Essential information is given regarding crop models calibration evaluation and application and every individual chapter is comprised of a specific cropping system Further contents include integration of climate models and crop models for refining the decisions for sustaining the production of various cropping systems for climate smart agriculture This book assists the agricultural scientists involved in research regarding climate smart agriculture for improving the standards of agricultural research for ensuring food security under changing climate This is also equally useful for policy makers being involved in future planning

*Climate-Resilient Horticulture: Adaptation and Mitigation Strategies* Harish Chandra Prasad Singh,Nadipynayakanahally Krishnamurthy Sriniv Rao,Kodthalu Seetharamaiah Shivashankar,2013-03-15 Climate change a global phenomenon has attracted scientists to contribute in anticipatory research to mitigate adverse impacts which are more important for horticulture considering that the scenario is in the midst of revolution reaching the production level of 250 million tonnes in India Impacts of climate variability have invariably profound influence on production and quality An understanding of the impacts and relevant adaptation strategies are of foremost

importance to sustain the productivity and profitability of horticulture crops in the climate change scenario which necessitates synthesis of current knowledge to develop strategies for adaptation and mitigation to achieve climate resilient horticulture. The book *Climate resilient horticulture adaptation and mitigation strategies* addresses the effects of climate change on different horticultural crops and focuses on the adaptation strategies based on the scientific knowledge generated by the experts in different agro climatic regions in India. Issues have been covered in various chapters to make this book a treasure of knowledge in horticulture vis a vis climate change. Some of the crops included in the book are apple, grapes, cashew, banana, litchi, mango, coconut, oil palm, potato, tomato, cucurbits and flowers. In addition to strategies to be adapted in these crops, various other important aspects like carbon sequestration, pests and diseases and urban landscaping are also covered in the book. Information on climatic risks and adaptation options for resilience in horticultural crops and future strategies and information on pest and disease dynamics on horticultural crops in relation to climate change and available mitigation strategies have also been documented. The book is edited by Dr H P Singh, a visionary leader and his colleagues, which will be highly valuable to research workers, students, policy planners and farmers to understand and checkmate the adverse effect of climate change so as to convert weakness into opportunity. *Exchange of Methodologies in Land Use Planning* R. P. Roetter, 1998

**Advances in Agronomy** Donald L. Sparks, 2023-08-21 *Advances in Agronomy* Volume 182, the latest release in this leading reference on agronomy, contains a variety of updates and highlights new advances in the field, each written by an international board of authors. Includes numerous timely state-of-the-art reviews on the latest advancements in agronomy. Features distinguished well-recognized authors from around the world. Builds upon this venerable and iconic review series. Covers the extensive variety and breadth of subject matter in the crop and soil sciences.

*Sustainable Agriculture* Eric Lichtfouse, Mireille Navarrete, Philippe Debaeke, Souchere Véronique, Caroline Alberola, 2009-11-11 Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Starving people in poor nations, obesity in rich nations, increasing food prices, on-going climate changes, increasing fuel and transportation costs, flaws of the global market, worldwide pesticide pollution, pest adaptation and resistance, loss of soil fertility and organic carbon, soil erosion, decreasing biodiversity, desertification and so on. Despite unprecedented advances in sciences allowing to visit planets and disclose subatomic particles, serious terrestrial issues about food show clearly that conventional agriculture is not suited any longer to feed humans and to preserve ecosystems. Sustainable agriculture is an alternative for solving fundamental and applied issues related to food production in an ecological way. While conventional agriculture is driven almost solely by productivity and profit, sustainable agriculture integrates biological, chemical, physical, ecological, economic and social sciences in a comprehensive way to develop new farming practices that are safe and do not degrade our environment. In that respect, sustainable agriculture is not a classical and narrow science. Instead of solving problems using the classical painkiller

approach that treats only negative impacts sustainable agriculture treats problem sources As most actual society issues are now intertwined global and fast developing sustainable agriculture will bring solutions to build a safer world This book gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations

***The Cyst Nematodes*** S.B. Sharma,2013-03-14 When Franklin published her book on cyst nematodes in 1951 the cyst nematodes were already known as serious pests of brassicas cereals potatoes and sugar beets However at that time this group of nematode with about 12 species was considered to be largely temperate in distribution Now a total of 105 species including those that are considered as synonyms or species inquirende by some or all within six genera of cyst nematodes have been described from temperate tropical and subtropical regions and at least five species are important constraints to crop production in tropical agriculture The previous impression of localization of cyst nematodes in the temperate region was seemingly an artifact due to a greater concentration of nematologists in the temperate regions Based on my own experience of working in several Asian and African countries I believe that many more undescribed species are present in the tropical countries of Asia and Africa and probably in other tropical regions Most growers extension workers and research managers in these regions are still not aware of the possible harm of presence of these nematodes in their agricultural soils The cyst nematodes are perhaps smaller than the smallest available computer chip but they are very well programmed to survive and propagate despite severe hardships These nematodes are very selective in their choice of food about 50% of known species are parasites of plants mainly in the families Poaceae and Fabaceae

**The Epidemiology of Plant Diseases** B.M. Cooke,D.Gareth Jones,B. Kaye,2006-03-29 Plant disease epidemiology is a dynamic science that forms an essential part of the study of plant pathology This book brings together a team of 35 international experts Each chapter deals with an essential component of the subject and allows the reader to fully understand how each exerts its influence on the progress of pathogen populations in plant populations over a defined time scale This edition has new revised and updated chapters

**Sustainable Potato Production and the Impact of Climate Change** Londhe, Sunil,2016-11-15 The potato is a significant food around the globe in the grand scheme of consumption However changes in the Earth's climate are threatening to negatively impact the growth and production of agriculture namely potatoes which in turn will greatly alter the dimensions of food Sustainable Potato Production and the Impact of Climate Change is an authoritative publication that provides the latest research on potato production in the future climate change scenario Featuring exhaustive coverage on a variety of topics associated with food fundamentals such as availability stability utilization and accessibility this reference work is an essential source for professionals researchers and students seeking current research on the importance of potato cultivation

**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

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