



MATHEMATICAL MODELS OF CROP GROWTH AND YIELD

**ALLEN R. OVERMAN
RICHARD V. SCHOLTZ III**

Mathematical Models Of Crop Growth And Yield

Raffaella Di Napoli



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Mathematical Models of Crop Growth and Yield Allen R. Overman, Richard V. Scholtz III, 2002-08-27 Highlighting effective analytical functions that have been found useful for the comparison of alternative management techniques to maximize water and nutrient resources this reference describes the application of viable mathematical models in data analysis to increase crop growth and yields Featuring solutions to various differential equations *Introduction to Mathematical Modeling of Crop Growth* Christopher B. S. Teh, 2006 Learning mathematical modeling need not be difficult Unlike other books this book not only lists the equations one by one but explains in detail how they are each derived used and finally assembled into a computer program for model simulations This book shows how mathematics is applied in agriculture in particular to modeling the growth and yield of a generic crop Topics covered are agriculture meteorology solar radiation interception and absorption evapotranspiration energy and soil water balance soil water flow photosynthesis respiration and crop growth development Rather than covering many modeling approaches but in superficial detail this book selects one or two widely used modeling approaches and discusses about them in depth Principles learned from this book equips readers when they encounter other modeling approaches or when they develop their own crop models A Memoir on Mathematical Models of Crop Growth and Yield Allen R. Overman, 2008 This memoir is the eighth in a series related to Mathematical Models of Crop Growth and Yield The series focuses on ideas which have been found useful in describing crop response to applied nutrients N P and K and accumulation of biomass and mineral elements with calendar time No attempt has been made to survey the broad field of crop modeling Results have evolved out of work with farmers and engineers over a period of nearly forty years There has been extensive collaboration with other scientists in Florida as well as other regions within the USA Analysis has been drawn from the large array of data from research conducted around the world over 150 years While basic concepts from physics chemistry and biology have been incorporated the models have been developed at the field scale for the sake of application Methods of applied mathematics and statistics have been utilized to provide a more rigorous foundation to the models Procedures from regression and analysis of variance have been borrowed from statistics In fact this is the focus of the present memoir As often occurs in research the question is how to analyze a complex set of data For example response of biomass and mineral uptake to applied nutrients N P and K where some other management factor such as intercropping is varied as well Is it appropriate to average over the response variables Are there some parameters in the model which are common among different management factors One can make such judgments based either on visual inspection of data or on statistical analysis The goal is to simplify the analysis as much as can be justified Throughout this analysis analytical functions have been used in contrast to numerical procedures A particular set of data for response of corn Zea mays L to applied N P and K is used to illustrate the analytical procedures The extended logistic model describes the data rather well Coupling of biomass yield and plant N uptake is achieved with a hyperbolic phase relation The memoir

contains 36 pages including 19 references 21 tables and 11 figures *A Memoir on Mathematical Models of Crop Growth and Yield* Allen R. Overman, 2008 Two mathematical models have been developed to couple plant biomass and mineral elements N P and K Both models use analytical functions in contrast to numerical procedures The growth model describes accumulation of biomass with calendar time due to photosynthesis It contains a linear partition function between light gathering and structural plant components an exponential aging function and a Gaussian energy driving function Accumulation of plant nutrients is coupled to biomass through a hyperbolic phase relation Accumulation of biomass appears to be the rate limiting process in the system The seasonal model assumes logistic dependence of plant nutrient accumulation on applied nutrient Biomass is coupled to plant nutrient through a hyperbolic relation The model has been extended to cover response to multiple levels of N P and K Both models have been shown to apply to annuals and perennial grasses In this document the models are applied to field studies from several geographic locations and planting times to clarify values of model parameters The phase relations for the growth model imply that biomass accumulation by photosynthesis is the rate limiting process in the field studies which have been analyzed and that accumulation of mineral elements proceeds in virtual equilibrium *A Memoir on Mathematical Models of Crop Growth and Yield* Allen R. Overman, 2007 Two mathematical models have been developed to couple plant biomass and mineral elements N P and K Both models use analytical functions in contrast to numerical procedures The growth model describes accumulation of biomass with calendar time due to photosynthesis It contains a linear partition function between light gathering and structural plant components an exponential aging function and a Gaussian energy driving function Accumulation of plant nutrients is coupled to biomass through a hyperbolic phase relation Accumulation of biomass appears to be the rate limiting process in the system The seasonal model assumes logistic dependence of plant nutrient accumulation on applied nutrient Biomass is coupled to plant nutrient through a hyperbolic relation The model has been extended to cover response to multiple levels of N P and K Both models have been shown to apply to annuals and perennial grasses In this document the models are applied to a variety of examples to further confirm the general applicability Data from the literature are used extensively **Introduction to Mathematical Modeling of Crop Growth** Christopher Teh, 2006-04-21 Learning mathematical modeling need not be difficult Unlike other books this book not only lists the equations one by one but explains in detail how they are each derived used and finally assembled into a computer program for model simulations This book shows how mathematics is applied in agriculture in particular to modeling the growth and yield of a generic crop Topics covered are agriculture meteorology solar radiation interception and absorption evapotranspiration energy and soil water balance soil water flow photosynthesis respiration and crop growth development Rather than covering many modeling approaches but in superficial detail this book selects one or two widely used modeling approaches and discusses about them in depth Principles learned from this book equips readers when they encounter other modeling approaches or when they develop their own crop models *Modeling Physiology of*

Crop Development, Growth and Yield Afshin Soltani, 2012-01-01 Model studies focus experimental investigations to improve our understanding and performance of systems Concentrating on crop modelling this book provides an introduction to the concepts of crop development growth and yield with step by step outlines to each topic suggested exercises and simple equations A valuable text for students and researchers of crop development alike this book is written in five parts that allow the reader to develop a solid foundation and coverage of production models including water and nitrogen limited systems

Simulation Models of Climate Change Carol A. Singer, 1993 **Selected Water Resources Abstracts** , 1990

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agriculture and is playing a key role as the industry comes to terms with the environment market forces quality requirements traceability vehicle guidance and crop management Sensors now in use in agriculture are generating Big Data leading to the use of machine learning and AI an increasing challenge for agriculture Research continues to be necessary and needs to be reported and disseminated to a wide audience These edited proceedings contain peer reviewed papers presented at the 14th European Conference on Precision Agriculture held in Bologna Italy The papers reflect the wide range of disciplines that impinge on precision agriculture technology crop science soil science agronomy information technology decision support remote sensing data analysis and others The broad range of research topics reported will be a valuable resource for researchers advisors teachers and professionals in agriculture long after the conference has finished *Handbook of*

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