

Progress in Soil Science

Viliam Novák

Evapotranspiration in the Soil-Plant- Atmosphere System

 Springer

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Evapotranspiration In The Soil Plant Atmosphere System Progress In Soil Science:

Evapotranspiration in the Soil-Plant-Atmosphere System Viliam Novak, 2012-06-25 Evapotranspiration and its components evaporation and transpiration as a process is one of the basic terms of Earth's water balance its importance is accentuated by the fact that transpiration is the vital element of the biomass production process The second important property of evapotranspiration is its extreme consumption of solar energy thus controlling the temperature of the atmosphere and creating favourable conditions for life Evapotranspiration as an energy consuming process is also the connection between the energy and mass cycles of the Earth Evapotranspiration is a process performing in the Soil Plant Atmosphere System SPAS therefore this book is presenting and quantifying it as a catenary process describing transport of water in the soil including root extraction patterns and methods of its evaluation Transport of water through the plant and from the canopy to the atmosphere is also described and quantified A variety of evapotranspiration and its component evaporation and transpiration calculation methods are described starting from empirical methods up to the most sophisticated ones based on the solution of the transport equations of water and energy in the SPAS The most important and widely used calculation method modified Penman Monteith method is described in details ready to be used with data in the book only Water balance method of evapotranspiration estimation as well as sap flow method description can be found in the book as well The book can be used by hydrologists biologists meteorologists and other specialists as well as by ecology students Key themes soil hydrology evapotranspiration hydrogeology plant physiology water movement in soils evaporation transpiration Dr Viliam Novak is a water resources scientist at the Institute of Hydrology of the Slovak Academy of Sciences in Bratislava Slovakia [Current Perspective to Predict Actual Evapotranspiration](#) Daniel Bucur, 2017-05-24 Evapotranspiration is the largest outgoing water flux from the Earth's surface its accurate quantification is critical for the crop development in conditions of the climate changes from recent decades and it can contribute to a greater understanding of a range of agricultural ecosystem processes To evaluate the hydric requirements of the crops it was agreed that they should be reported to a maximum global evapotranspiration called potential evapotranspiration To estimate this variable a variety of methods were developed each with its benefits as well as trade offs Their use however is laborious due to their complexity and of the large number of parameters required In this book specialists concerns worldwide to develop simple but reliable methodologies with less data requirement which will give accurate and appropriate results are presented In addition a study of the physics of the moisture evaporation process from porous media to elucidate what are the mechanisms of moisture migration from granular biopesticides is presented in the last chapter **Challenges and Opportunities in the Hydrologic Sciences** National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Challenges and Opportunities in the Hydrologic Sciences, 2012-10-02 New research opportunities to advance hydrologic sciences promise a better understanding of the role of water in the Earth system that could help improve human welfare and the health of the

environment Reaching this understanding will require both exploratory research to better understand how the natural environment functions and problem driven research to meet needs such as flood protection supply of drinking water irrigation and water pollution Collaboration among hydrologists engineers and scientists in other disciplines will be central to meeting the interdisciplinary research challenges outline in this report New technological capabilities in remote sensing chemical analysis computation and hydrologic modeling will help scientists leverage new research opportunities Heat and Mass Transfer Ashim K. Datta, 2017-01-23 This substantially revised text represents a broader based biological engineering title It includes medicine and other applications that are desired in curricula supported by the American Society of Agricultural and Biological Engineers as well as many bioengineering departments in both U S and worldwide departments This new edition will focus on a significant number of biological applications problem solving techniques and solved examples Specifically there will be 160 interesting application problems over an extended biological base biomedical bioenvironmental etc that were originally developed by the author throughout his 13 years of teaching this course at Cornell *Groundwater Management for Sustainable Agriculture in the North China Plain* Yanjun Shen, 2024-09-03 This book is a unique text that explores recent research on the management of sustainable groundwater use in the North China Plain NCP where aquifers are suffering the most severe over pumping in the world and have caused serious ecological degradation It contains research conducted by the editor and his teams on several projects over the past 18 years Key topics covered include comprehensive scheme and pathways to achieve sustainable groundwater management description of theoretical basis for water saving and technologies developed in practice at field scale adjusting cropping patterns and planting structure to reduce the cultivation intensity to a suitable extent soft measures such as water metering pricing and water marketing being applied in groundwater management practice in the NCP It will be an invaluable resource to graduate students education and research staff and agriculture or water resources authorities **Bibliography of Agriculture** ,1976 Proceedings - Soil Science Society of America Soil Science Society of America, 1975 **U.S. Government Research & Development Reports** ,1969-10 **Climate Variability, Modeling Tools and Agricultural Decision-making** Angel Utset Suastegui, 2009 New policies must be adopted under climate change conditions to secure sustainability of agricultural crop production Despite the proved reliability of present climate and crop growth modelling tools for climate risk assessments they have been not been noticeably applied for supporting agricultural decision making in practice The EU proposal AGRIDEMA provided initial contacts and collaborations between developers and potential users basically researchers and experts at agricultural services This book reviews the AGRIDEMA results The book is designed to introduce the currently available climate and crop growth models to summarise their potentialities as tools to provide reliable Climate Change adaptation options in agriculture and to show several examples of the combined use such tools in specific climate change agricultural risks in several countries Water Resources Research Catalog ,1973 Beginning with vol 9 only new and continuing but modified projects are listed

Vols 8 should be kept as a record of continuing but unchanged projects *Transactions of the Illinois State Academy of Science* Illinois State Academy of Science,1914 *I. Developments in Spectral Stochastic Techniques for Gravity Field Modelling* ,1998 *Ecology* ,1975 Publishes essays and articles that report and interpret the results of original scientific research in basic and applied ecology *WRC Research Report* ,1973 Range Science Series ,1976 Encyclopedia of Agricultural Science Charles J. Arntzen, Ellen M. Ritter,1994 The Geosciences in Canada, 1977 Canadian Geoscience Council,1978 In this the fourth annual report of the Canadian Geoscience Council the importance of the geosciences to Canada is again well documented Part 3 consists of the Council s annual report summaries of our member society s activities and achievements and significant position papers and reports Part 2 is the in depth report Soil Science in Canada Part 1 is a rationale for the Soil Science report followed by a summary and analysis of that report In addition information is tabulated on the significant hydrocarbon and metallic mineral discoveries in Canada during 1975 1977 **Proceedings of the Conference on Salt and Salinity Management, Miramar Hotel, Santa Barbara, September 23-24, 1976** ,1976
 Meteorological Monographs ,1965 **Transactions of the ASAE.** American Society of Agricultural Engineers,1988

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