

BASIC PRINCIPLES OF AGRICULTURAL METEOROLOGY

Dr. Radha Krishna Murthy

2002

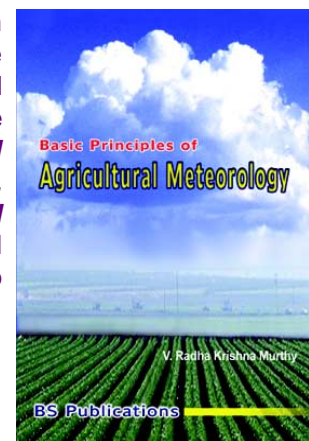
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Globally, climate change is exerting an enormous influence on productivity of both natural and cultivated ecosystems. With growing population and its needs, nature was subjected to over exploitation at the expense of sustainability of resources and production base. Of the sciences that help us in understanding and adjusting with the nature in relation to agriculture, Agricultural Meteorology is one. ***There are several advanced books on this subject, but a text book on basic principles is lacking. The author has attempted to bridge the gap in clear and non-mathematical manner.*** The first eight chapters deal with different components of weather, followed by chapters on applications of meteorological data for tackling the problem of crop production. In other chapters crop growth modelling, climate change, micrometeorology, weather modification and remote sensing have been discussed.

This book is undoubtedly essential for students of Agricultural Sciences, Environmental Scientists, Agro-meteorologists and Progressive farmers.



CONTENTS

Atmosphere and Agricultural Meteorology - Solar Radiation - Temperature - Pressure - Wind - Humidity
- Evaporation and Transpiration - Rainfall - Weather Disaster Management, Synoptic Reports, Weather
Forecasting and Remote Sensing - Crop Growth Modelling, Climate Change
and Climatic Classification - Micrometeorology and Weather Modification

About the Author

Dr. V. Radha Krishna Murthy did his M.Sc. (Ag) in Agricultural Meteorology from P.A.U. Ludhiana, and Post Graduate Diploma in Environmental Studies from Andhra University, Visakhapatnam. He obtained his Ph.D. (Agronomy) from Acharya N.G.Ranga Agricultural University. He learnt operational techniques in agrometeorology and crop growth modelling from the world renowned scientists Prof. T.N. Balasubramanian, TNAU, Coimbatore, India and Prof. J.W.Jones, University of Florida, U.S.A. respectively. He has put up 17 years of experience in farm management, research, teaching and extension. He is at present Associate Professor (Agronomy) in ANGRAU, Hyderabad. He has published over 30 research articles, several popular articles and also the author for “Practical Manual on Agricultural Meteorology” and “Terminology in Agricultural Meteorology”. His books are part of reference material in India and also popular in the developing countries.

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[Basic principles of occupational hygiene in agriculture]. February 1954. Vestnik Akademii meditsinskikh nauk SSSR. A a Letavet. Read more. Article. The forming processes of meteorological drought, hydrological drought and agricultural drought and the relationship among them are analyzed. A theoretical framework of the driving mechanism for drought evolution is established by adopting the "driving force-pressure-state-response" model. Key problems such as the principle factors of drought evolution, the driving mechanism of drought evolution, the methods of analyzing evolution rule and response of drought under changing environment are discussed. Read more. Article. Britain's Future in Farming: Principles. Agricultural meteorology is concerned with the meteorological, hydrological, pedological and biological factors that affect agricultural production and with the interaction between agriculture and the environment. Its objectives are to elucidate these effects and to assist farmers in preparing themselves by applying this supportive knowledge and information in agrometeorological practices and through agrometeorological services. Please also refer to Annex 1.C of this chapter, which outlines a basic syllabus in agrometeorology. 1.3 role of the commission for agricultural meteorology. The Commission for Agricultural Meteorology is one of the eight technical commissions of the World Meteorological Organization, a specialized agency of the United Nations. AGRICULTURAL METEOROLOGY. The International Series. Edited by L. H. Bailey. Goff: Principles of Plant Culture. Guthrie: The Book of Butter. Harper: Animal Husbandry for Schools. Harris and Stewart: The Principles of Agronomy. Hitchcock: Textbook of Grasses. Jeffery: Text-Book of Land Drainage.