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Wiley & Sons

Agronomy deals with the principles and practices of crop production and soil management. In its broader sense, it includes crop ecology, crop production, crop nutrition, soil fertility, water management, weed control, seed

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technology etc. To be a good agronomist, one needs to have a sound knowledge of all these agronomic aspects as also some related aspects from other sciences. The task of selecting the terms to be included in any branch of science offers many

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difficulties particularly in Agronomy, which draws upon from several diverse fields of agriculture. How far, it is advisable to include terms from those overlapping science which lie on the borderland is a question on which no two people

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might think alike. A compilation of available information has been a felt need of students, teachers, research workers and administrators in Agronomy. This book makes an attempt to present the available information on Agronomy in an easily

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understandable manner. It would be useful not only to graduate and post graduate students and those appearing in the competitive examinations, but also to the teachers and researchers of the Agricultural Universities / research

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organizations.

Farmers Agricultural

policymakers Environmentalists

A Global Study

Principles of Applied Climatology

Technical Report on a Study of

the Agroclimatology of the

Highlands of Eastern Africa

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OTS.

***Glossary of Terms in Crop
Production***

Three Volume Set

The content of this guide is twofold: to describe the most important weather and agroclimatic products that are available by the National Meteorological

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Service (NMS) and to identify the most important needs of farmers concerning climate information. Special consideration will be given to the local knowledge used by rural farmers, too often neglected, but a key factor to their ability to cope with climate variability and change. An additional objective of

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this guide is to improve communication among the NMS staff, in particular, meteorologists and agrometeorologists and to encourage Agro-Pastoral Field School (APFS) trainers and facilitators to be more aware of their respective availability. Furthermore, one of the most important aims is the exchange of

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agroclimatic information that corresponds to the needs of all concerned, thus facilitating the assessment of the existing climatic risks in farming activities. The integration of the Response Farming in Rainfed Agriculture (RF) approach into Farmer Field School (FFS) is feasibly

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an effective way to reconcile NMS products with the needs of farmers. RF is a method used for identifying and quantifying rainfall variability at a local level to assess the climatic risks of farming communities. The Climate-Responsive Farming Management (CRFM) approach is an enhanced

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version of RF that uses modern and digital technologies, such as specific computer software, automatic weather stations, real-time telecommunication and smartphone applications. This approach can be implemented at a minimum cost at the farming level. The integration of the Response Farming in

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Rainfed Agriculture (RF) approach into FFS is feasibly an effective way to reconcile NMS products with the needs of farmers. RF is a method used for identifying and quantifying rainfall variability at a local level to assess the climatic risks of farming communities. The Climate-Responsive Farming

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Management (CRFM) approach is an enhanced version of RF that uses modern and digital technologies, such as specific computer software, automatic weather stations, real-time telecommunication and smartphone applications. This approach can be implemented at a minimum cost at the

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farming level.

Agronomy is such science of agriculture as encompassing all the branches of it.

The main focus of agriculture is also agronomy. Therefore the soul of agriculture is agronomy and its knowledge is essential at all levels and intensity. The book is best suited to

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those students preparing for competitive exams such as JRF, SRF, IARI entrance exam, civil services, ARS and host of other exam being conducted by the Universities in agronomy. Hope that the book will be of immense benefit to all those users aiming to further their career in

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This is a theoretical and practical guide on how to undertake and navigate advanced research in the arts, humanities and social sciences.

Applied Principles of Agroclimatology
Agro-Climatology
Evapotranspiration

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21st Century Geography

Principles and Applications of Climate
Studies in Agriculture

ICRISAT Annual Report

‘Fundamentals of Agriculture’

for competitive exams in

agriculture discipline contains 6

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**chapters in volume I and 7
chapters in volume II covering all
disciplines of agriculture. The
chapters included General
Agriculture, Agricultural
Climatology, Genetics, Plant
Breeding & Biotechnology, Plant**

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**Physiology & Biochemistry, Seed
Technology and Agronomy in
volume I and Soil Science &
Agricultural Microbiology,
Horticulture, Entomology, Plant
Pathology, Agriculture Extension,
Agriculture Economics and**

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Agriculture Statistics in Volume II
have given due importance and
whole syllabus is covered as per
ICAR/SAUs syllabus and
guidelines. Each chapters contains
very short types of descriptive
questions. Recent precise

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information and development in the field of agriculture have been incorporated in the book. For the overall benefit of the student in the discipline of agriculture we have made this book exclusively in such a way that it hands out not

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only solutions but also detailed explanations. Though these detailed and thorough explanation, student can learn the concepts which will enhance their thinking and learning ability. Thus this book may be useful not

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**only to students but also teachers,
researchers, extension workers
and development officers for
reference and easy answering of
many complicated questions of all
related disciplines of agriculture.
Fundamentals of Agriculture**

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covers the course contents of competitive examinations like IAS, IFS, PCS, ARS, Banking services, B.Sc./M.Sc./Ph.D. (Ag) admission, states and national levels of different competitions in agriculture. The entire book is

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**prepared in most simple, clear,
talking language, comprehensive
and short descriptive types of
questions so that the concepts
could be easily understand by the
readers in short times. Hence, this
book can solve as a single**

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**platform for preparation of
different competitive
examinations in agriculture.**

**Degradation of soils continues at a
pace that will eventually create a
local, regional, or even global
crisis when diminished soil**

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resources collide with increasing climate variation. It's not too late to restore our soils to a more productive state by rediscovering the value of soil management, building on our well-established and ever-expanding scientific

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understanding of soils. Soil management concepts have been in place since the cultivation of crops, but we need to rediscover the principles that are linked together in effective soil management. This book is unique

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because of its treatment of soil management based on principles—the physical, chemical, and biological processes and how together they form the foundation for soil management processes that range from tillage to nutrient

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management. Whether new to soil science or needing a concise reference, readers will benefit from this book's ability to integrate the science of soils with management issues and long-term conservation efforts.

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The book contains the information from the basics of meteorology to the applications of agrometeorology, including chapters on remote sensing, global warming and climate change.

‘Weather Forecasting’ and

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‘Agromet Advisory Services’, the popular areas of agrometeorology, are also included in this book.

Abstracts on Tropical Agriculture Principles and Applications for Water Management

Encyclopedia of Environmental

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Change

**Proceedings of the Technical
Conference, Nairobi, 1-5 October
1973**

**Monitoring and Predicting
Agricultural Drought**

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Learn how the climate can affect crop production!

Agrometeorology: Principles and Applications of Climate Studies in Agriculture is a much-needed reference resource on the practice of

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merging the science of meteorology with the service of agriculture. Written in a concise, straightforward style, the book presents examples of clinical applications (methods, techniques, models, and

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services) in varying climates and agricultural systems, documenting up-to-date research literature from around the world. Its systematic approach—different from most books on the

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subject—makes it an essential tool for teaching, planning, and practical use by working farmers, as it examines topics such as solar radiation, effective rain, drought monitoring,

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evapotranspiration, and
remote sensing.

Agrometeorology: Principles
and Applications of Climate
Studies in Agriculture
examines the developing
discipline that international

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agencies such as the World Meteorological Organization (WMO) and the Food and Agriculture Organization (FAO) have declared to be an important growth area in university education. A panel

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of academics, researchers, and practitioners explore the role of agrometeorology in optimum crop growth, from the interactions between meteorological and hydrological factors and

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agriculture, including horticulture, animal husbandry, and forestry. The book addresses pressing topics of agriculture resource utilization and management, such as regional and land use

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planning; soil and water
conservation; frost; growing
degree day; risk analysis of
climate hazards; animal
parasites; harvest forecasts;
crop models; decision support
systems (DSS);

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agroclimatological forecast;
and the ecological and
economic implications of
climate change.

Agrometeorology: Principles
and Applications of Climate
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addresses: managing farm
water resources
environmental temperature
planning for frost mitigation
photosynthetically active
radiation (PAR)
thermoperiodism managing

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the extremes—droughts and floods using computers to manage agricultural systems and much more! The interdisciplinary focus and reader-friendly style of Agrometeorology: Principles

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and Applications of Climate Studies in Agriculture make the book invaluable to scientists, planners, and academics working in the major agricultural sciences, geography, natural resource

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studies, and meteorology. The chapters in this book cover crop -weather interaction and agro-met observatory, agro-climatic analysis, crop micro-meteorology, remote sensing,

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crop simulation models,
weather codes and their
management, integrated
weather forecast and agro
advisories, climate change,
livestock
climatology/meteorology and

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astrometeorology. To understand the text of the book, under terminology, simple details have been given for hard technical words. Further and above all, under practical tools, important

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computations and calculations have been given with example, which is the unique of this publication. The authors feel that this publication would be very useful to under graduates, postgraduates,

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research scholars, publics, teachers and also to the politicians to take policy decisions on the subject.

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Can we unlock resilience to
climate stress by better
understanding linkages
between the environment and

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biological systems?

Agroclimatology allows us to explore how different processes determine plant response to climate and how climate drives the distribution of crops and their productivity.

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Editors Jerry L. Hatfield,
Mannava V.K. Sivakumar, and
John H. Prueger have taken a
comprehensive view of
agroclimatology to assist and
challenge researchers in this
important area of study. Major

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themes include: principles of energy exchange and climatology, understanding climate change and agriculture, linkages of specific biological systems to climatology, the context of

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pests and diseases, methods of agroclimatology, and the application of agroclimatic principles to problem-solving in agriculture.

Fundamentals of Agriculture
(Vol. 1-2)

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Objective Agronomy
People, the Earth,
Environment and Technology
Training manual
agrometeorology for
agriculture extension officers
in the Lao People's

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Democratic Republic

Applied Agrometeorology

International Agro-
climatological Series

Accessibly written by a team of
international authors, the Encyclopedia of
Environmental Change provides a

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gateway to the complex facts, concepts, techniques, methodology and philosophy of environmental change. This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of environmental change: Diverse evidence

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of environmental change, including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide-ranging local, regional and global impacts from the polar regions to the tropics Responses of geo-ecosystems and human-environmental systems in the face

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of past, present and future environmental change Approaches, methodologies and techniques used for reconstructing, dating, monitoring, modelling, projecting and predicting change Social, economic and political dimensions of environmental issues, environmental conservation and management and environmental policy

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environment Mining and mining impacts
Nuclear energy Pollution Renewable
resources Solar energy Sustainability
Tourism Trade Water resources Water
security Wildlife conservation The
comprehensive coverage of terminology
includes layers of entries ranging from
one-line definitions to short essays,

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making this an invaluable companion for any student of physical geography, environmental geography or environmental sciences.

Tillage agriculture has led to widespread soil and ecosystem degradation globally, and more particularly in the developing regions. This is especially so in Africa

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where traditional agricultural practices have become unsustainable due to severe exploitation of natural resources with negative impacts on the environment and food system. In addition, agricultural land use in Africa today faces major challenges including increased costs, climate change and a need to transform to more

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sustainable production intensification systems. Conservation Agriculture has emerged as a major alternative sustainable climate smart agriculture approach in Africa and has spread to many African countries in the past decade as more development and research, including in sustainable mechanization,

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has enabled its extension and uptake. It is key to transforming Africa's agriculture and food system given its ability to restore soil health, biodiversity and productivity of millions of smallholder farms as well as larger-scale farms. This book is aimed at all agricultural stakeholders in the public, private and civil sectors in Africa engaged

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in supporting the transformation of conventional tillage agriculture to Conservation Agriculture. The book will be of interest to: researchers, academics, students, development stakeholders, public and private sector investors and policy makers as well as institutional libraries across the world.

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Better experimental design and statistical analysis make for more robust science. A thorough understanding of modern statistical methods can mean the difference between discovering and missing crucial results and conclusions in your research, and can shape the course of your entire research career. With

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Applied Statistics, Barry Glaz and Kathleen M. Yeater have worked with a team of expert authors to create a comprehensive text for graduate students and practicing scientists in the agricultural, biological, and environmental sciences. The contributors cover fundamental concepts and

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methodologies of experimental design and analysis, and also delve into advanced statistical topics, all explored by analyzing real agronomic data with practical and creative approaches using available software tools. IN PRESS! This book is being published according to the "Just Published" model, with more chapters to

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be published online as they are completed.

Study

Principles and Predictions

Fundamentals of Agriculture Vol.1

Agrometeorology

Handbook on climate information for
farming communities – What farmers need
and what is available

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Climate Smart Agricultural Development
*Representing the definitive reference
work for this broad and dynamic field,
The International Encyclopedia of
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define the concepts, research, and techniques in geography and interrelated fields. Available as a robust online resource and as a 15-volume full-color print set, the Encyclopedia assembles a truly global group of scholars for a comprehensive, authoritative overview

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*illustrations and photographs Annual
updates to online edition*

*Agricultural meteorology deals with the
meteorological, hydrological,
pedological and biological factors that
affect agricultural production as well as
the interaction between agriculture and
the environment. This training manual*

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is developed for the Training of Trainers (TOT) to effectively implement agro-meteorology at the local level through multiple methodologies tested in Lao PDR, such as climate field schools and group approaches, public announcement systems

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(loudspeakers), and school programmes. The manual is developed for the use of the Laos Climate Service for Agriculture (LaCSA) online system developed under the Global Environment Facility (GEF)-funded project Strengthening Agro-climatic Monitoring and

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Information Systems (SAMIS) to improve adaptation to climate change and food security in Lao PDR. It is aimed for TOT, and the design is flexible so that any modules or lessons can be extracted and applied in field-level staff training with some local adjustments. The training can also

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help fill gaps between the producers of agrometeorological services and the farmers' actual needs to improve their livelihood.

Agricultural meteorology or agrometeorology is a sub-discipline of applied meteorology which is concerned with the study of the

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relationship between weather and agricultural production. It is a biophysical science which focuses on making use of weather information to enhance the quantity and quality of crop production. Various other disciplines contribute to this subject such as soil physics, chemistry,

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hydrology, phenology and agronomy. Agricultural climatology or agroclimatology is a branch of science which deals with the study of the influence of climate on conditions of agricultural plants and animal husbandry. This book attempts to understand the multiple branches that

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fall under the discipline of agricultural meteorology and climatology and how such concepts have practical applications. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. As this field is emerging at a rapid pace,

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the contents of this book will help the readers understand the modern concepts and applications of the subject.

*Reviving The Green Revolution
Agroclimate Information For
Development*

Agroclimatology of the Highlands of

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Eastern Africa

*A Study of the Agroclimatology of the
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Conservation Agriculture in Africa

Notes on Hydrologic Activities

*This book covers topics on
the basic models,
assessments, and techniques*

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*to calculate
evapotranspiration (ET) for
practical applications in
agriculture, forestry, and
urban science. This simple
and thorough guide provides
the information and
techniques necessary to*

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develop, manage, interpret, and apply evapotranspiration ET data to practical applications. The simplicity of the contents assists technicians in developing ET data for effective water management.

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Today, given the well-publicized impacts of events such as El Niño, there is an unequaled public awareness of how climate affects the quality of life and environment. Such awareness has created an increasing

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demand for accurate climatological information. This information is now available in one convenient, accessible source, the Encyclopedia of World Climatology. This comprehensive volume covers

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all the main subfields of climatology, supplies information on climates in major continental areas, and explains the intricacies of climatic processes. The level of presentation will meet the needs of

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specialists, university students, and educated laypersons. A successor to the 1986 Encyclopedia of Climatology, this compendium provides a clear explanation of current knowledge and research directions in

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modern climatology. This new encyclopedia emphasizes climatological developments that have evolved over the past twenty years. It offers more than 200 informative articles prepared by 150 experts on numerous

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subjects, ranging from standard areas of study to the latest research studies. The relationship between climatology and both physical and social science is fully explored, as is the significance of climate for

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our future well-being. The information is organized for speedy access. Entries are conveniently arranged in alphabetical order, thoroughly indexed, and cross-referenced. Every entry contains useful

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citations to additional source materials. The Editor John E. Oliver is Professor Emeritus at Indiana State University. He holds a B.Sc. from London University, and a MA and Ph.D from Columbia University. He taught at

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*Columbia University and then
at Indiana State where he
was formerly Chair of the
Geography-Geology
Department, and Associate
Dean, College of Arts and
Sciences. He has written
many books and journal*

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*articles in Climatology,
Applied Climatology and
Physical Geography.*

*Agroclimatology is the
science of those climatic or
weather factors important to
agriculture. Climate is
generally thought as an*

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uncontrollable factor, and this book provides an understanding of the agroclimatic system and its influences on the failure or success of agricultural development activities; looking at misunderstandings

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*and the value of research
into this area*

*International Encyclopedia
of Geography, 15 Volume Set
Technical Report on a Study
of the Agroclimatology of
the Humid Tropics of
Southeast Asia*

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*Syria, Agricultural Sector
Assessment: Human resources
and agricultural
institutions annex*

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Experiment station r

Agrometeorology is a

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comparatively young science. The beginnings of agrometeorological work came in the 20's of this century, when agrometeorology was a working branch of climatology. In the years following 1950 it then developed widely to an independent science. In this

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process, agronomy has not only gained a vast knowledge of the influence of meteorological conditions on plants and livestock in agriculture and damage prevention, but additionally evolved new advisory methods which are of great practical use in agriculture.

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Up to the present time there has been practically no specific training for an agrometeorologist.

Agrometeorologists are drawn, according to their training, from the ranks of general meteorology or from agriculture and its related biological disciplines. They must,

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therefore, they themselves gather the knowledge for their agrometeorological work and combine for themselves the complex of agrometeorology from biological and meteorological information. This is usually far from easy, as the relevant literature is

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scattered among the most widely differing journals, partly in little-known foreign languages, and is thus very difficult of access.

Comprehensive writings are to be found only in very few partial fields of agrometeorology. The subject of training problems has thus been

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treated as of utmost importance at the meetings of the Commission for Agrometeorology (CAgM) of the World Meteorological Organization (WMO), especially as agrometeorology has won such great significance and usefulness not only in the so-called

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***underdeveloped countries in
advancing a more productive
agriculture, but also in coun tries
whose agricultural standard is
already high.***

***Agricultural droughts affect whole
societies, leading to higher food
costs, threatened economies, and***

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even famine. In order to mitigate such effects, researchers must first be able to monitor them, and then predict them; however no book currently focuses on accurate monitoring or prediction of these devastating kinds of droughts. To fill this void, the editors of

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***Monitoring and Predicting
Agricultural Drought have
assembled a team of expert
contributors from all continents to
make a global study, describing
biometeorological models and
monitoring methods for agricultural
droughts. These models and***

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methods note the relationships between precipitation, soil moisture, and crop yields, using data gathered from conventional and remote sensing techniques. The coverage of the book includes probabilistic models and techniques used in America,

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Europe and the former USSR, Africa, Asia, and Australia, and it concludes with coverage of climate change and resultant shifts in agricultural productivity, drought early warning systems, and famine mitigation. This will be an essential collection for those who must

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***advise governments or international organizations on the current scope, likelihood, and impact of agricultural droughts. Sponsored by the World Meteorological Organization
Bulletin
Applied Statistics in Agricultural,***

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