

Principles Of Animal Biometeorology

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GWENDOLYN RICHARD

Environmental Health Series University of California Press
This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1981.

[Guide to Sources for Agricultural and Biological Research](#)

Springer Science & Business Media

This publication contains proceedings of the Symposium on 'Interactions Between Climate and Animal Production' organised by the Commission on Animal Biometeorology of the International Society of Biometeorology and Dipartimento di Produzioni Animali of the Università della Tuscia (Viterbo, Italy), held in Viterbo September 4th 2003. The book discusses conceptual and methodological bases for research in animal biometeorology. It reviews the current state of knowledge, and will provide original contributions on: - the effects of climate on animal production, health and welfare; - tools for description and measurement of climate; - strategies for alleviation of climatic stress in farm animals; - the impact of animal husbandry on global climate.

Micro- and Macro-environments in the Atmosphere Springer Science & Business Media

Features more than seven thousand entries covering topics, terms, and concepts in math, science, and technology.

[Prospects for a sustainable dairy sector in the Mediterranean](#) CRC Press

In a changing climate, livestock production is expected to exhibit dual roles of mitigation and adaptation in order to meet the challenge of food security. This book approaches the issues of livestock production and climate change through three sections: I. Livestock production, II. Climate change and, III. Enteric methane amelioration. Section I addresses issues of feed quality and availability, abiotic stress (heat and nutritional) and strategies for alleviation, livestock generated nitrogen and phosphorus pollution, and approaches for harnessing the complex gut microbial diversity. Section II discusses the effects of climate change on livestock diversity, farm animal reproduction, impact of meat production on climate change, and emphasising the role of indigenous livestock in climatic change to sustain production. Section III deals with the most recent approaches to amelioration of livestock methane such as breeding for low methane emissions, reductive acetogenesis, immunization/vaccine-based concepts and archaea phage therapy.

Pathological Biometeorology Springer Science & Business Media

Dairy products have always constituted an essential component in the Mediterranean diet. In addition to their nutritional values, they represent also a part of the cultural heritage of the people.

[Prospects for a sustainable dairy sector in the Mediterranean,](#)

preconditions for its development and the future consumers' demand were some of the issues covered by the papers presented at the EAAP - CIHEAM - FAO Mediterranean symposium. It was organised by the Tunisian Office for Livestock and Pastures and the National Agronomic Research Institute and sustained by the Government of Tunisia, FAO, ICAR and CIRVAL. Over 280 participants from 25 countries participated. The symposium identified a variety of technically viable and scientifically sound policy options and defined the main fields requiring further scientific research and the development of new sustainable technologies. The available technologies to address intensive, semi intensive and extensive production systems and the existing institutional framework (research, education, extension systems, organisation of the sector), although requiring continuous adjustments and improvements, have proved to be in a position to meet a variety of demands and challenges. In this respect, the Symposium called for an increase in research for the semi-intensive farming systems in the South and emerging issues resulting from changes in agricultural policies in the North. It emphasised the importance of producers' associations as representatives of the interests of the sector and partners in the overall dialogue on policy matters and in the identification of research needs. The Symposium confirmed the wish and capacity of the dairy sector in the Region to contribute to the sustainable rural development, to the creation of new employment opportunities and to the reasonable and harmonious management of the natural resources.

Progress in Biometeorology John Wiley & Sons

Environmental Aspects of Housing for Animal Production is concerned with environmental aspects of housing farm animals. The discussions are organized around physical and physiological principles; environmental influences on reproduction; environmental influences on the productivity of farm animals; optimal housing environments for temperate and cool climates; housing environments for hot climates; engineering and control of the house environment; and the constraints of welfare and disease. This text consists of 32 chapters divided into nine sections. The first chapter explores the physiological mechanisms whereby the food- or fiber-producing animals maintain a constant body temperature under climatic extremes and the possible impact that these physiological processes may have on productive systems. This discussion is followed by chapters on the influence of climate on the decision to house livestock; the effect of the environment on animal reproduction; thermal influences on poultry; and the importance of ventilation and temperature control. This text also considers the poultry housing problems in tropical and subtropical climates; insulation of animal houses; and the interaction between feathering and egg production in laying hens. This book will appeal to those working in the field of housing for animal production, both in research and development and at a practical level.

[Technical note - World Meteorological Organization](#) Butterworth-Heinemann

From two of the world's leading authorities on dogs, an

imaginative journey into a future of dogs without people. What would happen to dogs if humans simply disappeared? Would dogs be able to survive on their own without us? *A Dog's World* imagines a posthuman future for dogs, revealing how dogs would survive—and possibly even thrive—and explaining how this new and revolutionary perspective can guide how we interact with dogs now. Drawing on biology, ecology, and the latest findings on the lives and behavior of dogs and their wild relatives, Jessica Pierce and Marc Bekoff—two of today's most innovative thinkers about dogs—explore who dogs might become without direct human intervention into breeding, arranged playdates at the dog park, regular feedings, and veterinary care. Pierce and Bekoff show how dogs are quick learners who are highly adaptable and opportunistic, and they offer compelling evidence that dogs already do survive on their own—and could do so in a world without us. Challenging the notion that dogs would be helpless without their human counterparts, *A Dog's World* enables us to understand these independent and remarkably intelligent animals on their own terms.

Optical Properties and Visual Effects of Smoke-stack Plumes Wageningen Academic Publishers

An up-to-date and much enlarged edition of this text on the microclimate, emphasizing its effect on plants, animals, and humans. Provides a basis for understanding environmental biophysics, then covers the prediction, manipulation, and management of the climate near the ground.

Principles of Animal Biometeorology Wageningen Academic Publishers

Livestock housing is a major determinant of animal health, welfare and productivity. This book presents the important principles and processes by which housing influences these outcomes, and shows how an understanding of these can be translated into specifications for housing designs. The emphasis is on the building as a means to an environmental end, focusing on the biological responses and welfare needs of animals in the context of commercial and economic considerations. The book provides a thorough literature review as well as practical guidance and is aimed at academics and professionals in animal production, veterinary science and agricultural engineering.

Biometeorological Aspects of Plants, Trees and Animals in Human Life Oxford University Press, USA

This volume focuses on the effects of bioclimates on the adaptability of livestock and poultry. Each chapter reviews and integrates in one volume the more recent research findings on bioclimates. Basic physiological, metabolic, thermoregulatory and applied growth production and lactation data are discussed. Fundamental and applied information on a wide variety of livestock provides data essential to the understanding of relative adaptability and performance potential of various livestock and poultry types in the hot and cold bioclimates of the world. Problem areas are highlighted and specific need for further scientific research is indicated where necessary. These data will enhance future decision making processes necessary for the improvement of productivity of livestock in various world bioclimates. The book is intended for use worldwide by, specialists, extension workers, consultants, policy makers, research scientists and graduate students involved in all aspects of animal production.

Livestock Housing Princeton University Press

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 merging the science of meteorology with the service of agriculture. Written in a concise, straightforward style, the book presents examples of clinical appli

Progress in Animal Biometeorology: Effect of light, high altitude, noise, electric, magnetic and electro-magnetic fields, ionization, gravity and air pollution on animals CABI

The book begins by describing in detail the mechanisms of energy exchange - radiative, convective, conductive and evaporative - together with techniques for their determination. The discussion extends to the importance of CO₂, ozone and methane, together with that of aerosol pollutants and the evolution of atmospheric CO₂. Subsequent chapters apply the results of the biophysical methods to mammals, birds and aquatic animals. Discussion includes problems of shelter and shade for animals in tropical environments and techniques for the thermal evaluation for shelters and for several tree types. The details of heat exchange between animals and the environment are presented, in separate chapters covering Mammals and Birds and Aquatic Mammals. A chapter on Shade and Shelter describes the importance of shade for animals, factors of shade efficiency, the protections offered by shelter and methods of calculating the protection afforded by both shade and shelter. A Special Methods chapter offers a variety of techniques for evaluating cutaneous and respiratory evaporation, and practical methods for sampling of hairs and the evaluation of hair coat characteristics.

Environmental Aspects of Housing for Animal Production Elsevier Proceedings of the 2d- International Biometeorological Congress, 1960-

Progress in biometeorology Elsevier Publishing Company

A keyword listing of serial titles currently received by the National Library of Medicine.

Bioclimatology and the Adaptation of Livestock

The structure of the british cattle industry. Synchronisation of oestrus and ovulation in cattle. Multiple ovulation, egg transplantation towards twinning. The physiological interrelationship os reproduction, lactation and nutrition in the cow. The influence of the climatic environment on metabolism in cattle. Energy supply from the digestive tract of cattle. Protein synthesis in the rumen: Its implication in the feeding of non-protein nitrogen to ruminants. Energy utilisation in the body. Amino acid supply as a limiting factor in milk and muscle synthesis. Nutritional influencing the efficiency of energy utilisation by beef and dairy cattle. Meeting the energy and protein requirements of the growing animal. Plane of nutrition for the dairy cow. Factors influencing voluntary food intake in cattle. Utilisation of grassland by dairy cows. Beef from grass and forage crops. Conserved forage - complement or competitor to concentrates. Selection for milk and beef characteristics - collateral or independent? The genetic implications of selecting cattle for large size. Practical beef cattle improvement. The future - milk versus beef or milk and beef.

Interaction between climate and animal production

Given the importance of livestock to the global economy, there is a substantial need for world-class reference material on the sustainable management of livestock in diverse eco-regions. With uncertain climates involving unpredictable extreme events (e.g., heat, drought, infectious disease), environmental stresses are becoming the most crucial factors affecting livestock productivity. By systematically and comprehensively addressing all aspects of environmental stresses and livestock productivity, this volume is a useful tool for understanding the various intricacies of stress physiology. With information and case studies collected and analyzed by professionals working in diversified ecological zones, this book explores the influence of the environment on livestock production across global biomes. The challenges the livestock industry faces in maintaining the delicate balance between animal welfare and production are also highlighted.

Ventilation of Agricultural Structures

Biometeorology continues to grow as a discipline. It is increasingly recognised for its importance in providing science of relevance to society and well being of the environment. This book is the first in a new book series on Biometeorology. The purpose of the new series is to communicate the interdisciplinary philosophy and science of biometeorology to as wide an audience as possible, introduce scientists and policy makers to the societal relevance of and recent developments in its fields and demonstrate how a biometeorological approach can provide insights to the understanding and possible solution of cross-cutting environmental issues. One such cross-cutting environmental issue is climate change. While the literature on the science of climate change, climate change mitigation and the

impacts of climate change is voluminous, that on adaptation to climate change is meagre in comparison. The purpose of this book is to partly redress this imbalance by providing insights from a biometeorological perspective. The book acknowledges that society has a long history of adapting to the impacts associated with climatic variability and change but makes the point that climate change poses a real threat to already strained coping systems. Therefore there is a need to realign human use systems with changing climate conditions.

Proceedings - Tall Timbers Conference on Ecological Animal Control by Habitat Management

The Impact of Climate Change from Increased Atmospheric Carbon Dioxide on American Agriculture
Public Health Service Publication