

## Livestock Production Management

Livestock rearing is an integral part of socio-economic framework of India since time immemorial. Livestock sub-sector being a vital component of agriculture sector, plays a multidimensional role and acts as a tool in achieving nutritional security, employment generation and socio-economic development of rural sector, particularly among the landless, small, marginal farmers and women. India possesses huge livestock population of varying production potentials, distributed across different agro-ecological zones under different operational and livestock holding size. Hence, it requires different package of practices for their management. Further, factors like drivers of development change and climate change pose many challenges to this sector. Farm animal management encompasses integrated and precise application of basic scientific principles of breeding, feeding, heeding and weeding in general as well as in times of specific need. Therefore, an attempt has been made in this book to cover all these basic and applied aspects of livestock management in detail. In the perspective of reorganization of the syllabus of veterinary science and animal husbandry programme. This book is appropriately divided into fifteen s covering almost each and every aspect of livestock production management.

Written as per the Fifth Deans' Committee Report of ICAR, the book meticulously describes in a nutshell the basic and applied aspects of Livestock Production Management in Indian context. The book primarily covers all important information about farm animals (like cattle, buffalo, sheep, goat and pig) and poultry—their breeds, reproduction and breeding, feeds and feeding, housing requirement, care and management, and health control measures. **KEY FEATURES** • It is written in a simple and lucid language for easy grasping. • The text is supported with numerous examples, tables, photographs and diagrams for clear understanding of the concepts. • A large number of objective as well as subjective questions given at the end of each chapter is an added attraction of the book, which will be of help to the concerned students for their internal short tests and final examination. • It will also help the concerned teachers in teaching this course in a time-bound schedule. • Answers to objective questions are provided at the end of each chapter for students' self-assessment. • The information is up-to-date and given in concise form in such a manner that the book can be used as a substitute of class notes. **TARGET AUDIENCE** • B.Sc. (Hons.) Agriculture • B.Tech. (Dairy Technology) • B.V.Sc. & A.H.

Precision Livestock Farming (PLF) technology is a reality. PLF is a combination of developing animal sensing (sensors) tools and decision-making process at the farm level. It also has the potential to support animal feed suppliers, human-food retailers and other players along the supply chain to make better choices. The current challenge for PLF is the integration of the technology in the majority of the farms and not only to the pioneering farms. This book consist of full-length peer-reviewed papers combined with 'questions and answers' sections. It is the result of a joint session hosted by the European Association of Animal Production and brings together research focusing on real-time interpretation of the combination of sensor development, industry, animal genetics, animal nutrition, and animal health. Unique of this 'cross-disciplinary' approach is that 'animal-focused' scientists, engineers, companies as well as farmers' organizations have interacted and combined their strengths and views. 'Precision Livestock Farming Applications - Making sense of sensors to support farm management' provides an update on the state of the art of PLF in interaction with the other scientific and applicative expertise. It is of interest for researchers, students, professionals, farmers, and livestock industry concerned with livestock production

management.

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This book brings together and discusses information relating to animal production systems in different parts of the world. Throughout this book there are examples of systems comprised of a collection of interdependent and interactive elements that act together to accomplish a desired outcome. As indicated in the Preface, editors sought to give a broad description of existing systems of livestock production in different parts of the world. They discuss some of their important components and try to identify why and how these components have interacted with the systems being described. By editorial concept and by cross-referencing between chapters, this book should serve as a synthesis of several key issues. Along with the extensive bibliography (some in languages other than English) here, and in each other chapters, we present an approach to global livestock production that is up to date and comprehensive. The editors have commissioned writers from Asia, Africa, Australia, the Americas and Europe. The information they present helps our understanding of the complexity of the issues faced in the rapidly changing world in which we all live. What to do about burgeoning populations, rising living standards, shrinking areas of agricultural and pastoral lands, dilemmas about the morality of eating meat, competition for arable lands to grow food crops for humans or to provide fodder and grain for livestock have not yet been resolved. The book's purpose is to provide the reader with a synoptic overview of the role of livestock in the economy and culture of peoples from every continent except Antarctica. This book draws together many aspects related to livestock industries around the world, beginning with an overview of the major production systems. Different geographic zones are associated with certain production systems. These are explained and a more in-depth examination (including case studies) of each is presented. Livestock production is the world's largest user of land, either directly through grazing or indirectly through consumption of fodder and feed grains. Globally, livestock production currently accounts for some 36 percent of the gross value of agricultural production. In the developed countries, this share amounts to half of total production and in developing countries for almost one-third. Worldwide, animal production from livestock (meat, dairy products, eggs, fiber and hides and skins) is the basis of livelihoods of billions of people. The management (care and welfare) of livestock is called animal husbandry. Animal husbandry as a term covers matters relating to livestock production and management, physiology of animals, reproduction, preservation and protection from disease, nutrition and feeding, housing, welfare and behaviour. The predominant production systems in the world range from extensive pastoral systems to intensive landless systems. The classification is justified by its usefulness in identifying livestock development possibilities. Systems at different stages on the development path face widely differing constraints on their further improvement. This book is particularly valuable in this context. The book has 17 chapters in five parts. The authors are drawn from 12 countries, many from the developing world. They are people with in-depth knowledge of the local situation and provide insights into the role, function and interdependence of people and their livestock. The book will be an invaluable addition to the already comprehensive technical literature on the physiology, behaviour, and genetics of both ruminant and non-ruminant livestock (including poultry, rabbits, and

even more exotic mini livestock species that are part of the food chain. Readership will include livestock specialists who wish to learn more about the global situation, personnel from the donor community, the UN agencies, NGOs, geographers and the curious lay persons.

A descriptive account regarding livestock production has been presented in this book including its genetics, breeding as well as management. This book is unique in its approach as it has been designed as a valuable resource to meet the needs of researchers, students and professionals working in various parts of the globe in distinct environments towards optimization of livestock production.

There has been a tremendous increase in the production of livestock products and this is expected to continue in the coming future. This is especially in developing countries. The greatest increase is in the production of poultry and pigs, as well as eggs and milk. Livestock production can make good use of resources, some of which may otherwise not be used, and contributes high quality protein and important micronutrients to the human diet.

The book has various chapters covering theoretical, practical and demonstrations aspects. The authors have tried to cover all aspect of piggery. The book is comprehensive and can be easily understandable by the students, farmers and learned person.

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