

# Optimal Rangeland Management for Sustainable Livestock Farming

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**Abstract:** Rangeland is often described as the farmer's *cheapest fodder source*. Although there is inherently nothing wrong with this statement, it is only true if the rangeland is in a good condition. To obtain a rangeland that is in good condition it is necessary to practice optimal rangeland management. With *optimal rangeland management* an endeavor is made to maintain the long-term productivity of the rangeland, while the yield of animal products such as wool, meat and/or milk are maximized. To achieve optimal rangeland management factors like stocking rate and management systems are important, but the most important factor is healthy, perennial grass plants with excellent root systems. For a farmer to achieve optimal rangeland management it is thus necessary to look after the root systems of the grass plants and this can be achieved through proper rest systems in the rangeland.

**Key words:** management systems, stocking rate, rangeland rest, plant growth

## 1. Introduction

Rangelands collectively represent about 75% of the world's land surface [1, 2] and are home to 2.1 billion people — approximately 35% of the world's population [1]. In spite of the fact that the rangelands of the world is often described as degraded [3, 4] one often hear the following statements: "The most valuable asset in livestock farming is rangeland" or "Natural grazing (rangeland) is the cheapest way meat is produced" and the most common one "Rangeland is the farmer's cheapest fodder source" [5-7]. When the last statement is typed into Google, there are over 30 000 written results where this statement has already been used. Although there is inherently nothing wrong with any of these statements, all can be considered as incomplete. Rangeland is only a cheap and good fodder source *if it is in a good condition* — rangeland in a good condition will lead to climate smart livestock

productions where enteric emissions are relatively low [7]. Rangeland management is one of the most difficult aspects of farming. Poor rangeland management often leads to poor, unproductive rangeland which negatively affects farming efficiency and in the end leads to higher enteric emissions from ruminant livestock [7]. To achieve good rangeland management, it is essential that not only the stocking rate should be closely monitored, but sound management principles, especially aimed at the grass plant/roots, should also apply. To achieve the latter, it is important that the growth and development of the grass plant, but especially the health of the grass roots, are taken into account [5, 6].

## 2. Optimal Rangeland Management

The main purpose of *optimal rangeland management* is to maintain the long-term productivity of the rangeland, while the yield of animal products such as wool, meat and/or milk are maximized. From a practical point of view, the functions of optimal rangeland management is to maintain a consistent supply of feed for the animals, but at the same time

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# Rangeland Management For Livestock

**Harold F. Heady**



## **Rangeland Management For Livestock:**

**Rangeland Management Series: Factors and Practices that Influence Livestock. . . ,      Towards Sustainable Use of Rangelands in North-West China** Victor Squires, Limin Hua, Degang Zhang, Guolin Li, 2010-09-21 Towards Sustainable Use of Rangelands in China's North West is based on the program of the International Conference Implementing GEF Objectives in a Systems Framework held in Lanzhou Gansu China in October 2008 This collection reviews the extent of resource debasement in China's pastoral zones and offers solutions for their sustainable use The five parts deal with rangelands and the people who manage them and assess prospects for implementation of more sustainable rangeland livestock production systems Topics include Livestock husbandry development and agro pastoral integration in Gansu and Xinjiang Ecological restoration and control of rangeland degradation Despite widespread degradation the articles reveal the approaches that are likely to lead to recovery of these rangelands and better livelihoods for the local herders and farmers Two chapters are devoted to the achievement of global environmental objectives Carbon sequestration and biodiversity conservation in mountain grasslands are just a few of the covered subjects This portion of the book pays special attention to the successful results in Gansu and Xinjiang major regions of China's pastoral lands The final division addresses measures to improve the profitability and sustainability of herding and farming in the pastoral areas of north west China There are fifteen chapters on subjects that include Livestock management Rangeland management interventions Agro pastoral integration Improved animal husbandry practices as a basis for profitability Land tenure and access Environmental education Ecological Restoration and New Management approaches for China's northwest pastoral areas      **Rangeland Management for Livestock Production** Hershel M. Bell, 1973 Defining rangeland and range management Kinds of rangeland Plant growth and response to grazing Range forage quality effects range management Range site and condition evaluation of rangeland Range trends and indicators The key range site and key species in management Range utilization Proper grazing use of forage production Season of use in range management Distribution of grazing in range management Kinds of livestock best suited to the range Range management planning Livestock the tool in range management Grazing management systems Environmental and management influences on range production      *Developing Strategies For Rangeland Management* Mary Koppal, 2021-02-27 In a two year study the National Academy of Sciences Committee on Developing Strategies for Rangeland Management examined at length the scientific political economic legal and social issues arising from the BLM's stewardship role This book reporting the findings and recommendations of the NAS committee contains over eighty professional papers presented at workshops designed to assess forage allocation inventory of rangeland resources impact of grazing intensity and specialized grazing systems on the use and value of rangeland manipulative range improvements application of socioeconomic techniques to range management decision making and political and legal aspects of range management      *Grazing Fees and Public Rangeland Management* United States. Congress. House. Committee on Interior

and Insular Affairs. Subcommittee on National Parks and Public Lands, 1988      Rangeland Management Series: Livestock Management During Drought ,      *Proceedings of the Symposium on Oak Woodlands and Hardwood Rangeland Management, October 31-November 2, 1990, Davis, California* , 1991      **The Governance of Rangelands** Pedro M. Herrera, Jonathan Davies, Pablo Manzano Baena, 2014-10-10 Rangelands are large natural landscapes that can include grasslands shrublands savannas and woodlands They are greatly influenced by and often dependent on the action of herbivores In the majority of rangelands the dominant herbivores are found in domestic herds that are managed by mobile pastoralists Most pastoralists manage their rangelands communally benefitting from the greater flexibility and seasonal resource access that common property regimes can offer As this book shows this creates a major challenge for governance and institutions This work improves our understanding of the importance of governance how it can be strengthened and the principles that underpin good governance in order to prevent degradation of rangelands and ensure their sustainability It describes the nature of governance at different levels community governance state governance international governance and the unique features of rangelands that demand collective action issues of scale ecological disequilibrium and seasonality A series of country case studies is presented drawn from a wide spectrum of examples from Africa the Middle East Central Asia Europe and North America These provide contrasting lessons which are summarised to promote improved governance of rangelands and pastoralist livelihoods      **Rangeland Management in Pakistan** Noor Mohammad, 1989      **Wild Rangelands** Johan T. du Toit, Richard Kock, James Deutsch, 2010-01-26 Rangeland ecosystems which include unimproved grasslands shrublands savannas and semi deserts support half of the world's livestock while also providing habitats for some of the most charismatic of wildlife species This book examines the pressures on rangeland ecosystems worldwide from human land use over hunting and subsistence and commercial farming of livestock and crops Leading experts have pooled their experiences from all continents to cover the ecological sociological political veterinary and economic aspects of rangeland management today This book provides practitioners and students of rangeland management and wildland conservation with a diversity of perspectives on a central question can rangelands be wildlands The first book to examine rangelands from a conservation perspective Emphasizes the balance between the needs of people and livestock and wildlife Written by an international team of experts covering all geographical regions Examines ecological sociological political veterinary and economic aspects of rangeland management and wildland conservation providing a diversity of perspectives not seen before in a single volume      **Rangeland Management** Harold F. Heady, 1975 Photographs and text describe the baby's nine month journey from conception to birth      *108-2 Roundtable: Development Projects in Tibetan Areas of China: Articulating Clear Goals and Achieving Sustainable Results, March 19, 2004, \**, 2004      Development Projects in Tibetan Areas of China United States. Congressional-Executive Commission on China, 2004 A roundtable discussion that contains prepared statements about the development projects in Tibetan areas of China from Daniel Miller Agricultural officer Melvyn

C Goldstein and John Reynold Harkness Professors of Anthropology at Case Western Reserve University Arlene M Samen Founder and executive director of One H E A R T      **Interior Columbia Basin Ecosystem Management Project** ,2000  
**1995 International Rangeland Development Symposium Proceedings** ,1995      **Rangeland Ecology And Management** Harold Heady,R. Dennis Child,1999-11-11 Over the last two decades the science of range management like many other resource disciplines has embraced and integrated environmental concerns in the field the laboratory and policy Rangeland Ecology and Management now brings this integrated approach to the classroom in a thoroughly researched comprehensive and readable text The authors discuss the basics of rangeland management including grazing and practical management of animals and vegetation and place those basics within the context of decision making for damaged land riparian and water conservation multiple use and modeling Concepts such as succession stability and range condition are examined and their effects discussed Fire is considered as an environmental factor Appendixes provide scientific and common names of range plants and animals These and many other issues crucial to the understanding of successful range management combine to make the finest text for upper level undergraduates now available      *Rangeland Ecology & Management* ,2005      *Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitats* William R. Meehan,1991      **Adaptations in Indigenous Rangeland Management Strategies in the Eastern Communal Areas of Namibia** Abdalla G. Mohammed,2002      *Developing Strategies For Rangeland Management* National Research Council (U.S.). Committee on Developing Strategies for Rangeland Management,1984-10-14 The findings and recommendations of the NAS committee in over eighty professional papers presented at workshops designed to assess various aspects of range management

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