



# THE AFRICAN BUFFALO

*A Study of Resource Limitation  
of Populations*

A. R. E. SINCLAIR

*Wildlife Behavior and Ecology Series*

# The African Buffalo A Study Of Resource Limitation Of Populations

**Timothy M. Caro**



## **The African Buffalo A Study Of Resource Limitation Of Populations:**

**The African Buffalo** Anthony Ronald Entrican Sinclair, 1977      **The African buffalo** Anthony R. Sinclair, 1977

Serengeti II A. R. E. Sinclair, Peter Arcese, 1995-08 Serengeti II Dynamics Management and Conservation of an Ecosystem brings together twenty years of research by leading scientists to provide the most thorough understanding to date of the spectacular Serengeti Mara ecosystem in East Africa home to one of the largest and most diverse populations of animals in the world Building on the groundwork laid by the classic Serengeti Dynamics of an Ecosystem published in 1979 by the University of Chicago Press this new book integrates studies of the ecosystem at every level from the plants at the bottom of the visible food chain to the many species of herbivores and predators to the system as a whole Drawing on new data from many long term studies and from more recent research initiatives and applying new theory and computer technology the contributors examine the large scale processes that have produced the Serengeti's extraordinary biological diversity as well as the interactions among species and between plants and animals and their environment They also introduce computer modeling as a tool for exploring these interactions employing this new technology to test and anticipate the effects of social political and economic changes on the entire ecosystem and on particular species and so to shape future conservation and management strategies      **Ecology and Management of the African Buffalo** Alexandre Caron, Daniel Cornélis, Philippe Chardonnet, Herbert H. T. Prins, 2023-11-23 This interdisciplinary volume covers the ecology conservation and management of the African buffalo one of iconic Africa's Big Five

Ecology and Behaviour of the African Buffalo H.H.T Prins, 2012-12-06 Over the past 30 years or so research effort in behaviour and ecology has progressed from simple documentation of the habits or habitats of different species to asking more searching questions about the adaptiveness of the patterns of behaviour observed moved from documenting simply what occurs to trying to understand why Increasingly studies of behaviour or ecology explore the function of particular responses or patterns of behaviour in individuals or populations looking for the adaptiveness that has led to the adoption of such patterns either at a proximate level what environmental circumstances have favoured the adoption of some particular strategy or response from within the animal's repertoire at that specific time or at an evolutionary level speculating upon what pressures have led to the inclusion of a particular pattern of behaviour within the repertoire in the first place Many common principles have been established common to a wide diversity of animal groups yet showing some precise relationship between a given aspect of behaviour or population dynamics and some particular ecological factor In particular tremendous advances have been made in understanding the foraging behaviour of animals and the decision rules by which they seek and select from the various resources on offer and patterns of social organization and behaviour the adaptiveness of different social structures group sizes or reproductive tactics

Introduction to Population Ecology Larry L. Rockwood, 2015-03-23 Introduction to Population Ecology 2nd Edition is a comprehensive textbook covering all aspects of population ecology It uses a wide variety of field and laboratory examples

botanical to zoological from the tropics to the tundra to illustrate the fundamental laws of population ecology Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory Topics explored include single species population growth and self limitation life histories metapopulations and a wide range of interspecific interactions including competition mutualism parasite host predator prey and plant herbivore An additional final chapter new for the second edition considers multi trophic and other complex interactions among species Throughout the book the mathematics involved is explained with a step by step approach and graphs and other visual aids are used to present a clear illustration of how the models work Such features make this an accessible introduction to population ecology essential reading for undergraduate and graduate students taking courses in population ecology applied ecology conservation ecology and conservation biology including those with little mathematical experience

**The Ecological Web** H. G. Andrewartha, L. C. Birch, 1986-07 This book is the naturalist's vision of population ecology P J den Boer Book Cover

**Mammalogy** Terry A. Vaughan, James M. Ryan, Nicholas J. Czaplewski, 2013-12-16 Mammalogy is the study of mammals from the diverse biological viewpoints of structure function evolutionary history behavior ecology classification and economics Thoroughly updated the Sixth Edition of Mammalogy explains and clarifies the subject as a unified whole The text begins by defining mammals and summarizing their origins It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history current distribution morphological characteristics and basic behavior and ecology of each family of mammals The third part of the text progresses to discuss special topics such as mammalian echolocation physiology behavior ecology and zoogeography The text concludes with two additional chapters previously available online that cover mammalian domestication and mammalian disease and zoonoses

**Serengeti IV** Anthony R. E. Sinclair, Kristine L. Metzger, Simon A. R. Mduma, John M. Fryxell, 2015-05-11 The vast savannas and great migrations of the Serengeti conjure impressions of a harmonious and balanced ecosystem But in reality the history of the Serengeti is rife with battles between human and non human nature In the 1890s and several times since the cattle virus rinderpest at last vanquished in 2008 devastated both domesticated and wild ungulate populations as well as the lives of humans and other animals who depended on them In the 1920s tourists armed with the world's most expensive hunting gear filled the grasslands And in recent years violence in Tanzania has threatened one of the most successful long term ecological research centers in history Serengeti IV the latest installment in a long standing series on the region's ecology and biodiversity explores the role of our species as a source of both discord and balance in Serengeti ecosystem dynamics Through chapters charting the complexities of infectious disease transmission across populations agricultural expansion and the many challenges of managing this ecosystem today this book shows how the people and landscapes surrounding crucial protected areas like Serengeti National Park can and must contribute to Serengeti conservation In order

to succeed conservation efforts must also focus on the welfare of indigenous peoples allowing them both to sustain their agricultural practices and to benefit from the natural resources provided by protected areas an undertaking that will require the strengthening of government and education systems and as such will present one of the greatest conservation challenges of the next century      *Ecological Aspects of Social Evolution* Daniel I. Rubenstein, Richard W. Wrangham, 2014-07-14

Seeking common principles of social evolution in different taxonomic groups the contributors to this volume discuss eighteen groups of birds and mammals for which long term field studies have been carried out They examine how social organization is shaped by the interaction between proximate ecological pressures and culture the social traditions already in place and shaped by local and phylogenetic history Originally published in 1987 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905      World

Savannas Jayalaxshmi Mistry, Andrea Beradi, 2014-09-15 An interdisciplinary text on the world's savannas covering the geography ecology economics and politics of savanna regions Savannas are a distinct vegetation type covering a third of the world's land surface area and supporting a fifth of the world's population There has been a wide range of literature on the subject but the majority of work has focused on the ecology or development of savanna areas ignoring the wider interdisciplinary issues affecting contemporary savannas *World Savannas* aims to buck this trend providing students with an up to date and comprehensive introduction to the global importance of savannas      **Serengeti Story** Anthony

Sinclair, 2012-11-22 Serengeti is arguably the most well known and highly treasured conservation area in the world In 1972 the United Nations meeting on National Parks and Protected Areas agreed to set up World Heritage Sites now supervised by UNESCO and at that meeting they voted Serengeti top of the list What makes this site outstanding What happens in Serengeti biologically How did it become a protected area What are the historical events that have shaped its present dynamics What will happen to it in future How has it become relevant to human society and conservation These are the questions that Anthony Sinclair answers First arriving in Serengeti in 1961 he has worked as a scientist in this ecosystem since 1965 and continues to do so today In the process he has documented not only the ecological events as the system has changed but also the political economic and social events that have driven these changes Including personal accounts of the dramatic events brought about by the vicissitudes of political turmoil he tells the story of Serengeti and its surrounding research Providing the historical background both the paleohistory going back 4 million years and the modern history of the region he examines the future of conservation considering the ominous threats facing the Serengeti today      **Behavioral**

**Ecology and Conservation Biology** Timothy M. Caro, 1998-08-27 Behavioural ecologists study how animals maximize their

genetic representation whilst conservation biologists study small populations attempt to prevent species extinctions This volume attempts to link these disciplines formally      **Cheetahs of the Serengeti Plains** Timothy M. Caro,1994-08-15

Cheetahs of the Serengeti Plains is the most comprehensive account of carnivore social behavior to date Synthesizing more than a decade of research in the wild this book offers a detailed account of the behavior and ecology of cheetahs Compared with other large cats and other mammals cheetahs have an unusual breeding system whereas lions live in prides and tigers are solitary some cheetahs live in groups while others live by themselves Tim Caro explores group and solitary living among cheetahs and discovers that the causes of social behavior vary dramatically even within a single species Why do cheetah cubs stay with their mother for a full year after weaning Why do adolescents remain in groups Why do adult males live in permanent associations with each other Why do adult females live alone Through observations on the costs and benefits of group living Caro offers new insight into the complex behavior of this extraordinary species For example contrary to common belief about cooperative hunting in large carnivores he shows that neither adolescents nor adult males benefit from hunting in groups With many surprising findings and through comparisons with other cat species Caro enriches our understanding of the evolution of social behavior and offers new perspectives on conservation efforts to save this charismatic and endangered carnivore      **Kangaroos** Graeme Caughley,Neil Shepherd,Jeff Short,1987-05-29 This book examines the ecology and

management of kangaroos and shows how they interact with their own environment and with that shaped by sheep grazing and the wool industry It presents the results of intensive and detailed studies of feeding behaviour movement and habitat utilisation body condition and population dynamics weather and plant growth      *Ecology, Evolution and Behaviour of Wild Cattle* Mario Melletti,James Burton,2014-10-30 Covering all thirteen species of wild cattle Ecology Evolution and Behaviour of Wild Cattle brings together the contributions of international leading experts on the biology evolution conservation status and management of the tribe Bovini providing A comprehensive review of current knowledge on systematic anatomy and ecology of all wild cattle species chapters 1 to 8 A clear understanding of the conservation status of each species and the gaps in our current knowledge chapters 9 to 20 A number of case studies on conservation activities and an investigation of some of the most threatened and poorly understood species chapters 21 to 27 An invaluable resource for students researchers and professionals in behavioural ecology evolutionary biology and conservation biology this beautifully illustrated reference work reveals the extraordinary link between wild cattle and humans the benefits some of these species have brought us and their key roles in their natural ecosystems      Mammals of Africa Jonathan Kingdon,David

Happold,Thomas Butynski,Michael Hoffmann,Meredith Happold,Jan Kalina,2013-05-23 Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa s

mammals With 1 160 species and 16 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume follows the same format with detailed profiles of every species and higher taxa The series includes some 660 colour illustrations by Jonathan Kingdon and his many drawings highlight details of morphology and behaviour of the species concerned Diagrams schematic details and line drawings of skulls and jaws are by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Extensive references alert readers to more detailed information Volume I Introductory Chapters and Afrotheria 352 pages Volume II Primates 560 pages Volume III Rodents Hares and Rabbits 784 pages Volume IV Hedgehogs Shrews and Bats 800 pages Volume V Carnivores Pangolins Equids and Rhinoceroses 560 pages Volume VI Pigs Hippopotamuses Chevrotain Giraffes Deer and Bovids 704 pages

*The Ecology of Browsing and Grazing II* Iain J. Gordon, Herbert H. T. Prins, 2019-11-12 Domestic and wild large mammalian herbivores occur on every continent except Antarctica Through their browsing and grazing they affect the structure and distribution not only of vegetation but also of associated fauna Consequently the interactions between management practices and herbivore populations influence the biodiversity structure and dynamics of ecosystems across vast expanses around the globe signs of human activity that will be detectable for epochs to come As a follow up work to *The Ecology of Browsing and Grazing* published in 2008 this new volume presents cutting edge research on the behaviour distribution movement and direct and indirect impacts of domestic and wild herbivores on terrestrial ecosystems The respective chapters highlight strategic and applied research on cross cutting issues in palaeontology and ecology and provide concrete recommendations on the management of large herbivores to integrate production and conservation in terrestrial systems Given its scope the book will appeal to students researchers and anyone interested in understanding these fascinating wild animals and how they shape the natural world

**Asdell's Patterns of Mammalian Reproduction** Virginia Douglass Hayssen, Ari Van Tienhoven, Ans Van Tienhoven, 1993 Since the appearance of the second edition of Sydney A Asdell's widely used *Patterns of Mammalian Reproduction* in 1964 the field of reproductive physiology has expanded dramatically Accordingly this revision adopts a different structure from previous editions substituting empirical delineations for physiological interpretations With the emphases now on a presentation of the published facts of mammalian reproduction it provides a thorough compilation of what is known about the basic reproductive biology of each of the 4300 mammalian species To gather information the authors examined more than 20 000 publications dating up to 1992 They used primary sources as much as possible supplementing them with English translations of Russian Finnish Chinese and Japanese journals The data are presented in taxonomic order Each familial account summarizes the pattern of reproduction for the family and provides lists of citations arranged by topic of the literature on the endocrinology reproductive anatomy and reproductive physiology of the family Following each account is a tabular listing of species specific data for neonatal mass and size weaning mass and size litter size age at sexual maturity estrous cycle length gestation length

lactation length number of litters per year and seasonality of reproduction For each of these reproductive variables the range of data gleaned from the literature is given together with the source of each value listed Virginia Hayssen is Assistant Professor of Biology at Smith College Ari Van Tienhoven is Professor of Animal Physiology Emeritus at Cornell University Ans Van Tienhoven assisted in the compilation of data for the book Wildlife Disease Ecology Kenneth Wilson, Andy Fenton, Dan Tompkins, 2019-11-14 Introduces readers to key case studies that illustrate how theory and data can be integrated to understand wildlife disease ecology

The Enigmatic Realm of **The African Buffalo A Study Of Resource Limitation Of Populations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **The African Buffalo A Study Of Resource Limitation Of Populations** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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