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Carrying Capacity Reconsidered

1998

in this paper the concept of carrying capacity is investigated to provide an improved understanding about its contribution to solve environmental problems light is shed on its form interpretation and application in biology demography applied and human ecology

Full House

2023-10-02

originally published in 1995 after decades of steady growth this book was written at a time when the world s food supply was no longer keeping up with population increases this book examines the causes of the imbalance in the food population equation and suggests ways in which malthusian checks can be countered it calls for an international strategy to restore global security and a budget to implement it with a massive redirection of the world s financial resources on one side of the argument the authors advocate increased expenditure on family planning services education and women s rights on the other they stress the environmental importance of reforestation and soil conservation schemes to halt the deterioration of the agricultural resource base

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2023-10

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The Earth's Human Carrying Capacity

2021-08-02

this book focuses on the earth s carrying capacity to service the needs of its human populations as well as preserve the ecosystems that provide natural resources that sustain life and support human activities in 2020 and later in the century 2050 and beyond it addresses the two principal factors that challenge the limits of the carrying capacity growing populations demographic moves and global warming climate change it also covers the effects that these factors have on water availability food security sanitation and natural resources the status of these basic needs that sustain life and societal activities with respect to population increases and global warming driven climate changes are discussed on two time frames one with respect to the 2020 and the other with measured and computer guided projected future impacts later as the century progresses to 2050 and later attention is given to africa asia and somewhat for south america because of their projected increases in population the purpose of the book is to provide those in decision making roles and those that advise them with a sound set of facts and figures to think about to support their decisions actions a secondary purpose is to present data that stresses the need to act now firmly and with investment to plan to adapt to changing conditions rather than wait until forced to do so the book also discusses how the covid 19 pandemic has affected the world s societies and how they have reacted the book will be of use to students in first second year of college university programs in environmental sciences studies demographics and ancillary fields such as agriculture science urban land use planners political science public health and consultants at academic and professional levels

Australia's Population "carrying Capacity"

1994

integrating research from anthropology biology and history this provocative brilliant book proposes a theory of demographic equilibrium the author s hypothesis is that human beings like many other species are able to adjust their population numbers to the carrying capacity of the environment abernethy points out that in response to perception of scarcity or abundance of resources culturally mediated values beliefs and behavioral patterns are modified in ways that can either raise or lower rates of population growth abernethy in this way moves beyond the ideological debates that have sundered the field of policy and population in real world time and space cultural adjustments that balance population and resources are made over a long stretch in relatively stable or known environments these adjustments also operate in processes that involve technological advances that

appear to increase carrying capacity and these usually act to support and underwrite population growth in any given area in her new introduction to this first paperback edition abernethy shows how many of the cultural changes the book predicted in 1979 have come to pass she details a complex of behaviors that favor single life styles or small family size that have contributed to low fertility rates among native born americans while fertility rates among immigrants continue to climb population pressure and cultural adjustment is not simply a theoretical slogan but discusses a rich set of different cultural situations where this homeostatic process has been disrupted or aborted often disruption occurs after the infusion of foreign value systems as well as new forms of technological innovation or when highly permeable social boundaries result in the importation of resources for which the limits and consequences are not fully appreciated by the host population this work will inevitably be controversial because of its implications for the limits as well as the potential of public policy in both advanced and underdeveloped societies

Harrying and Carrying Capacity

1974

this text on animal pollution dynamics should be of interest to those studying ecology population dynamics and pest control

Focus

1995

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

Carrying Capacity in Regional Environmental Management

1974

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Carrying Capacity of China's Resources, Environment, Population, and Economy

1991

this book examines the implications of rapid human population growth for global stability and security

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2018-04-17

discusses how many people the earth can support in terms of economic physical and environmental aspects

Population Pressure and Cultural Adjustment

1982-10-31

the focus is on the formulation and solution of mathematical models with the idea of a population employed mainly as a

pedagogical tool if the biological setting is stripped away the material can be interpreted as topics or the qualitative behavior of differential and difference equations the first group of models investigate the dynamics of a single species with particular interest in the consequences of treating time and population size in discrete and continuous terms the second group study is the interaction of two or more species a final section on complexity and stability attempts to summarize one of the basic questions in ecology using many of the developed ideas at the conclusion of each topic problems are provided to provide practice with mathematical concepts and techniques and an annotated list of references is also given at these points in the material the document concludes with solutions to problems mp

Animal Population Dynamics

2015-03-23

for much of its history human population growth increased at a glacial pace the demographic rate only soared about 200 years ago climaxing between the years 1950 and 2000 in that 50 year span the population grew more than it had in the previous 5 000 years though these raw numbers are impressive they conceal the fact that the growth rate of population topped out in the 1960s and may be negative later this century the population boom is approaching a population bust despite the current world population of seven billion people in on the cusp economist charles pearson explores the meaning of this population trend from the arc of demographic growth to decline he reviews thomas malthus s famous but mistaken 1798 argument that human population would exceed the earth s carrying capacity that argument has resurfaced however in the current environmental era and under the threat of global warming analyzing population trends through dual lenses demography and economics pearson examines the potential opportunities and challenges of population decline and aging aging is almost universal and will accelerate mitigating untoward economic effects may require policies to boost fertility which has plunged increase immigration and work longer harder and smarter as well as undertake pension and health care reform all of which have hidden costs the writing is rigorous but not technical and is complemented by a helpful set of figures and tables sharp bold and occasionally funny pearson s research has thought provoking implications for future public policies he ends his analysis with a modestly hopeful conclusion noting that both the rich and the poor face a new demographic order general readers and students alike will find on the cusp an informative and engaging read

Introduction to Population Ecology

1984

this book provides an introduction to population dynamics exploring rules that govern change in any dynamic system and applying these general principles to populations of living organisms principles of population dynamics and their application is aimed at applied ecologists resource managers and pest managers it is also aimed at undergraduate students taking courses in forestry fisheries wildlife and pest management

Population Biology

1966

this study is aimed at estimating carrying capacity for the human population in a portion of brasil s transamazon highway colonization area a variety of assumptions special emphasis is given to the effect of variability in a number of factors related to agricultural production and consumption carrying capacity is defined operationally in terms of a gradient of increasing probability of colonist failure with population density within a limited range of densities both the criteria defining a failure and the critical value for the maximum acceptable probability of colonist failure can be culturally defined multiple criteria including both consumption and environmental quality measures can be used failure probabilities for carrying capacity estimation are taken to be sustainable over a long period of years a computer simulation is developed which reproduces many features of the agroecosystem of which the colonists are a part including sectors for agricultural production resource allocation product allocation and population gradients of failure probabilities for the estimation of carrying capacity are constructed from information output by the simulations both deterministic and stochastic runs are made allowing the assessment of the importance of variability variability in crop yields results in colonist failure frequencies based on a number of criteria which greatly exceed the goals of brazilian planners despite restrictions on the data set which tend to make simulation results over optimistic

How Many People Can the Earth Support?

2015-06-15

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

Introduction to Population Modeling

2020-11-25

in this book i have tried to bring together the major developments in the study of insect populations in tropical environments in some ways this task has been a difficult one because conceptually it is virtually impossible to limit a discussion of insect ecology to the tropics since the same concepts theories and hypotheses concerning the mechanisms by which habitats support insect populations often apply both to temperate and to tropical regions thus one might argue effectively that a book such as peter price s insect ecology represents a more comprehensive treatment of insect ecology including the tropical aspects yet because there has been a tremendous amount of new study on insects in the tropics in recent years and because there has also been a strong historical interest in tropical insects judging from early museum expeditions and medically and agriculturally oriented studies of insects in the new and old world tropics i believe there is a place for a book dealing almost exclusively with tropical insects but logically so such a book by necessity incorporates data and information from temperate zone studies if for no other reason than because insights into the properties of tropical environments often emerge from comparisons of species communities or faunas between temperate and tropical regions an understanding of insect populations in the tropics cannot be divorced from a consideration of temperate zone populations

On the Cusp

1991

using science to improve the blm wild horse and burro program a way forward reviews the science that underpins the bureau of land management s oversight of free ranging horses and burros on federal public lands in the western united states concluding that constructive changes could be implemented the wild horse and burro program has not used scientifically rigorous methods to estimate the population sizes of horses and burros to model the effects of management actions on the animals or to assess the availability and use of forage on rangelands evidence suggests that horse populations are growing by 15 to 20 percent each year a level that is unsustainable for maintaining healthy horse populations as well as healthy ecosystems promising fertility control methods are available to help limit this population growth however in addition science based methods exist for improving population estimates predicting the effects of management practices in order to maintain genetically diverse healthy populations and estimating the productivity of rangelands greater transparency in how science based methods are used to inform management decisions may help increase public confidence in the wild horse and burro program

Principles of Population Dynamics and Their Application

1978

the theme of the present volume concerns people s response to the natural environment considered at scales varying from that of a house hold plant to that of vast wilderness areas our decision to focus on this particular segment of the physical environment was prompted in part by the intrinsic interest in this subject on the part of a diverse group of social scientists and professionals and of laypersons for that matter and in part by the relative neglect of this topic in standard treatments of the environment behavior field it also serves to bring out once again the interdisciplinary nature of that field and we are pleased to

have been able to include representatives from geography sociology and natural recreation among our contributors we believe that this volume will serve a useful purpose in helping to integrate the findings and concepts in this presently somewhat fragmented field scattered as they are over a very diverse array of publications representing a similarly varied group of specialties it is hoped that the result will be to stimulate future development of this area and to add a measure of increased coherence to it volume 7 of our series will be devoted to the theme of elderly people and the environment with m powell lawton joining us as guest co editor the titles of the papers comprising volume 7 are shown on page v irwin altman j oachim f wohlwill ix contents introduction

Sharing the Land of Abundance

2003

ESTIMATION OF CARRYING CAPACITY FOR HUMAN POPULATIONS IN A PART OF THE TRANSAMAZON HIGHWAY COLONIZATION AREA OF BRASIL. (VOLUMES I AND II).

1994

Population Ecology

2005

Population growth and our caring capacity

1995

Population Pressure and Cultural Adjustment

1986

Australia's Population Carrying Capacity

1974

Rethinking Population, Environment and Development

1993

Harboring and carrying capacity

2014-11-30

A Model for Assessing the Human Population Carrying Capacities of a Region with a Typical Agrarian Economy

2003-03

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2015-05-26

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2012-12-06

Introduction to Population Ecology

2013-09-18

Population Biology of Tropical Insects

1978

Using Science to Improve the BLM Wild Horse and Burro Program

2014-06

Estimation of Carrying Capacity for Human Populations in a Part of the Transamazon Highway Colonization Area of Brasil

2012-12-06

DSM-5 □□□□□□□□□□□□□□

Behavior and the Natural Environment

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