

RESEARCH ARTICLE

Abundance and population growth estimates for bare-nosed wombats

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Abstract

Wildlife managers often rely on population estimates, but estimates can be challenging to obtain for geographically widespread species. Spotlight surveys provide abundance data for many species and, when conducted over wide spatial scales, have potential to provide population estimates of geographically widespread species. The bare-nosed wombat (*Vombatus ursinus*) has a broad geographical range and is subject to spotlight surveys. We used 19 years (2002–2020) of annual spotlight surveys to provide the first estimates of population abundance for two of the three extant bare-nosed wombat subspecies: *V.u.ursinus* on Flinders Island; and *V.u.tasmaniensis* on the Tasmanian mainland. Using distance sampling methods, we estimated annual rates of change and 2020 population sizes for both subspecies. Tasmanian mainland surveys included habitat data, which allowed us to also look for evidence of habitat associations for *V.u.tasmaniensis*. The average wombat density estimate was higher on Flinders Island (0.42 ha^{-1} , 95% CI = 0.25–0.79) than on the Tasmanian mainland (0.11 ha^{-1} , CI = 0.07–0.19) and both wombat subspecies increased over the 19-year survey period with an estimated annual growth rate of 2.90% (CI = –1.7 to 7.3) on Flinders Island and 1.20% (CI = –1.1 to 2.9) on mainland Tasmania. Habitat associations for *V.u.tasmaniensis* were weak, possibly owing to survey design; however, we detected regional variation in density for this subspecies. We estimated the population size of *V.u.ursinus* to be 71,826 (CI = 43,913–136,761) on Flinders Island, which when combined with a previously published estimate of 2599 (CI = 2254–2858) from Maria Island, where the subspecies was introduced, provides a total population estimate. We also estimated 840,665 (CI = 531,104–1,201,547) *V.u.tasmaniensis* on mainland Tasmania. These estimates may be conservative, owing to individual heterogeneity in when wombats emerge from burrows. Although these two subspecies are not currently threatened, our population estimates provide an important reference when assessing their population status in the future, and demonstrate how spotlight surveys can be valuable to inform management of geographically widespread species.

The Bare Abundance

F. W. Meyer



The Bare Abundance:

The Bare Abundance G. F. Dutton, 2002 Dutton writes austere passionate poems which search and illuminate the world about us They are as much an exploration as his notable scientific work both draw on one continuous spectrum of experience

Abundance Ezra Klein, Derek Thompson, 2025-03-18 1 NEW YORK TIMES BESTSELLER ONE OF BARACK OBAMA'S FAVORITE BOOKS OF 2025 A must read for progressives who want a blueprint for reforming government so it can deliver for working people Barack Obama A terrific book Powerful and persuasive Fareed Zakaria Spectacular Offers a comprehensive indictment of the current problems and a clear path forward Klein and Thompson usher in a mood shift They inspire hope and enlarge the imagination David Brooks The New York Times From bestselling authors and journalistic titans Ezra Klein and Derek Thompson *Abundance* is a once in a generation paradigm shifting call to renew a politics of plenty face up to the failures of liberal governance and abandon the chosen scarcities that have deformed American life To trace the history of the twenty first century so far is to trace a history of unaffordability and shortage After years of refusing to build sufficient housing America has a national housing crisis After years of limiting immigration we don't have enough workers Despite decades of being warned about the consequences of climate change we haven't built anything close to the clean energy infrastructure we need Ambitious public projects are finished late and over budget if they are ever finished at all The crisis that's clicking into focus now has been building for decades because we haven't been building enough *Abundance* explains that our problems today are not the results of yesteryear's villains Rather one generation's solutions have become the next generation's problems Rules and regulations designed to solve the problems of the 1970s often prevent urban density and green energy projects that would help solve the problems of the 2020s Laws meant to ensure that government considers the consequences of its actions have made it too difficult for government to act consequentially In the last few decades our capacity to see problems has sharpened while our ability to solve them has diminished Progress requires facing up to the institutions in life that are not working as they need to It means for liberals recognizing when the government is failing It means for conservatives recognizing when the government is needed In a book exploring how we can move from a liberalism that not only protects and preserves but also builds Klein and Thompson trace the political economic and cultural barriers to progress and propose a path toward a politics of abundance At a time when movements of scarcity are gaining power in country after country this is an answer that meets the challenges of the moment while grappling honestly with the fury so many rightfully feel

Memory Ireland Oona Frawley, 2014-05-16 Recent years have seen cultural memory become a significant element in area studies and the humanities Ireland with its trauma filled history and huge global diaspora presents a fascinating subject for work in this vein This series as a whole seeks to construct a landscape of cultural memory in Ireland looking to map through an examination of various historical moments spaces and cultural forms the ways in which cultural memory shifts over time Volume 3 focuses on the impact of trauma on cultural memory by considering two cruxes

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Environmental Effect and Ecosystem Functioning Da Huo,Hua Li,Beatriz Roncero Ramos,Yueming Qu ,Man Xiao,2024-09-20 Cyanobacteria represent an incredibly diverse group of photosynthetic microorganisms that can be found thriving in a variety of ecosystems around the world playing a crucial role in maintaining the balance of our planet s atmosphere and contributing significantly to global primary production which ultimately supports the growth and sustenance of countless other life forms These remarkable organisms exhibit a fascinating array of morphological variations allowing them to adapt and flourish even in the most extreme and inhospitable environments such as hot springs polar ice caps and arid deserts In recent years the study of genetic diversity within cyanobacteria has garnered considerable interest among scientists as it offers valuable insights into their evolutionary history ecological roles and potential applications in the burgeoning field of biotechnology as well as the development and progression of the photosynthetic processes that have shaped our world and made it habitable for countless species throughout the eons *Irish Times* David Lloyd,2008 *God for an Old Man* Thomas M.

Dicken,2015-12-15 *God for an Old Man* blends elements of careful academic thought about God with elements of personal autobiography and memoir The author is deeply influenced by modern process thought about God stemming from the thought of Alfred North Whitehead and Charles Hartshorne but he also describes his own life as a child adult and now a person entering his eighties The central premise is that a person cannot write about a meaningful God without taking seriously the meaning conflict loss and joy in one s own life Thomas M Dicken is immersed in both literature and visual art He explores the ways in which art and literature can evoke a sense of ultimacy even though we can never attain certain knowledge of the ultimate Just as the psychiatrist Erik Erikson wrote about major stages in human lives Dicken writes with a sense of fulfillment about the insights and values of old age Old age is the age of wisdom a time for offering younger people the insight that all the stages of life have been very much worth living This is not a book of easy or dogmatic answers it is a book of honest exploration *Rediscovering Rhetoric* Justin T. Gleeson,Ruth C. A. Higgins,2008 Rhetoric is ubiquitous in

modern discourse from arguments delivered in the High Court to advertisements disseminated in the high street For the legal and political advocate persuasion is also a professional technique that must be perfected properly to practise each art In contrast with the classical era and the middle ages in which grammar rhetoric and dialectic were basic features of all education modern curricula almost entirely neglect any theoretical study of the methods of rhetoric *Rediscovering Rhetoric* re introduces to modern practitioners and students a grasp of the speeches writings and methodologies of the great classical scholars of rhetoric Part 1 *Law and Language in the Greco Roman Tradition* provides a contextualised introduction to

significant theorists of rhetoric in the classical period and consists of four chapters written by practising barristers and a current Justice of the Federal Court of Australia Part 2 The Practice of Persuasion comprises essays by practitioners distinguished in their pursuit of legal persuasion one former and two current Justices of the High Court of Australia illuminating their experiences of argument from the perspective of both bench and bar Part 3 The Politics of Persuasion performs a similar function to Part 2 in the related domain of politics It includes a chapter by Graham Freudenberg former speechwriter for Gough Whitlam and others Together the three parts provide a unique inter disciplinary perspective on the theory and practice of legal and political persuasion Published in association with the NSW Bar Association **NYO.** ,1963

The Unseen Foundations of Society George Douglas Campbell Duke of Argyll,1893 **Managing soil health for sustainable agriculture Volume 1** Dr Don Reicosky,2018-08-06 Puts soil health in the broader context of ecosystem services conservation and climate change Summarises current research on soil structure and composition Reviews latest developments in understanding nutrient and other cycles in soil **Farming with the Environment** Chris Stoate,2022-07-29 This book examines discusses and shares over 30 years worth of research from the Allerton Project a research and demonstration farm in the UK which has been carrying out applied interdisciplinary research to explore and explain the need to adapt the management of farmland for environmental protection and to provide public benefits Designed to provide guidance feedback and recommendations to farmers practitioners and policymakers the Allerton Project is an exceptionally well documented case study of lowland agricultural land management which has the purpose of meeting multiple objectives This book draws on the wealth of knowledge built over the past 30 years and unveils and clarifies the complexity of a number of topical debates about current land and wildlife management at a range of spatial scales explores the underlying historical context and provides some important pointers to future directions of travel Topics include soil health and management farmland ecology development of management practices to enhance biodiversity natural flood management water quality and aquatic ecology Most importantly the book demonstrates how the findings from this project relate to agricultural and conservation policy more broadly as well as how they are applicable to similar projects throughout Europe This book will be of great interest to professionals working in agricultural land management and conservation as well as researchers and students of agri environmental studies and agricultural policy [The Microbial Regulation of Global Biogeochemical Cycles](#) Johannes Rousk,Per Bengtson,2014-10-17 Global biogeochemical cycles of carbon and nutrients are increasingly affected by human activities So far modeling has been central for our understanding of how this will affect ecosystem functioning and the biogeochemical cycling of carbon and nutrients These models have been forced to adopt a reductive approach built on the flow of carbon and nutrients between pools that are difficult or even impossible to verify with empirical evidence Furthermore while some of these models include the response in physiology ecology and biogeography of primary producers to environmental change the microbial part of the ecosystem is generally poorly represented or lacking

altogether The principal pool of carbon and nutrients in soil is the organic matter The turnover of this reservoir is governed by microorganisms that act as catalytic converters of environmental conditions into biogeochemical cycling of carbon and nutrients The dependency of this conversion activity on individual environmental conditions such as pH moisture and temperature has been frequently studied On the contrary only rarely have the microorganisms involved in carrying out the processes been identified and one of the biggest challenges for advancing our understanding of biogeochemical processes is to identify the microorganisms carrying out a specific set of metabolic processes and how they partition their carbon and nutrient use We also need to identify the factors governing these activities and if they result in feedback mechanisms that alter the growth activity and interaction between primary producers and microorganisms By determining how different groups of microorganisms respond to individual environmental conditions by allocating carbon and nutrients to production of biomass CO₂ and other products a mechanistic as well as quantitative understanding of formation and decomposition of organic matter and the production and consumption of greenhouse gases can be achieved In this Research Topic supported by the Swedish research councils programme Biodiversity and Ecosystem Services in a Changing Landscape BECC we intend to promote this alternative framework to address how cycling of carbon and nutrients will be altered in a changing environment from the first principle mechanisms that drive them namely the ecology physiology and biogeography of microorganisms and on up to emerging global biogeochemical patterns This novel and unconventional approach has the potential to generate fresh insights that can open up new horizons and stimulate rapid conceptual development in our basic understanding of the regulating factors for global biogeochemical cycles The vision for the research topic is to facilitate such progress by bringing together leading scientists as proponents of several disciplines By bridging Microbial Ecology and Biogeochemistry connecting microbial activities at the micro scale to carbon fluxes at the ecosystem scale and linking above and belowground ecosystem functioning we can leap forward from the current understanding of the global biogeochemical cycles

The Best Hardy Perennials for Producing an Abundant Supply of Cut Flowers F. W. Meyer,1901

Curriculum in Abundance David William Jardine, Sharon Friesen, Patricia Anne Clifford, 2006 Addresses curriculum and teaching topics such as mathematics science environmental education social studies language arts and the arts curriculum This book also sheds light on the issues that arise from inviting student teachers and practicing teachers into the idea of curriculum of abundance

Three Horizons Bill Sharpe, 2013-09-16 A practical framework for thinking about the future and an exploration of future consciousness and how to develop it Three Horizons is a simple and intuitive framework for thinking about the future The framework explains how people often manage to disagree so violently about their visions of the future and how to achieve them and it offers a practical way to begin constructive conversations about the future at home in organisations and in society at large The three horizons are about much much more than simply stretching our thinking to embrace the short medium and long term They offer a co ordinated way of managing innovation a way of creating

transformational change that has a chance of succeeding a way of dealing with uncertainty and a way of seeing the future in the present In this beautifully illustrated book Bill Sharpe introduces the Three Horizons framework as a prompt for developing a future consciousness a rich and multi faceted awareness of the future potential of the present moment and explores how to put that awareness to work to create the futures we aspire to *Transposable Elements and Genome Evolution* J. F. McDonald, 2012-12-06 Once considered merely selfish or parasitic DNA transposable elements are today recognized as being of major biological significance Not only are these elements a major source of mutation they have contributed both directly and indirectly to the evolution of genome structure and function On October 8 10 1999 100 molecular biologists and evolutionists representing 11 countries met on the campus of The University of Georgia in Athens for the inaugural Georgia Genetics Symposium The topics of presentations ranged from how the elements themselves have evolved to the impact transposable elements have had on the evolution of their host genomes The papers in this volume therefore represent state of the art thinking by leading world experts in the field on the evolutionary significance of transposable elements Imaging Spectrometry Freek D. van der Meer, S.M. de Jong, 2011-03-29 A significant step forward in the world of earth observation was made with the development of imaging spectrometry Imaging spectrometers measure reflected solar radiance from the earth in many narrow spectral bands Such a spectroscopical imaging system is capable of detecting subtle absorption bands in the reflectance spectra and measure the reflectance spectra of various objects with a very high accuracy As a result imaging spectrometry enables a better identification of objects at the earth surface and a better quantification of the object properties than can be achieved by traditional earth observation sensors such as Landsat TM and SPOT The various chapters in the book present the concepts of imaging spectrometry by discussing the underlying physics and the analytical image processing techniques The second part of the book presents in detail a wide variety of applications of these new techniques ranging from mineral identification mapping of expansive soils land degradation agricultural crops natural vegetation and surface water quality Additional information on extras springer com Sample hyperspectral remote sensing data sets and ENVI viewing software Freelook are available on <http://extras.springer.com>

OTS. United States. Dept. of Commerce. Office of Technical Services, 1974 **Astrochemistry** International Astronomical Union. Symposium, 1987 Proceedings of the 120th Symposium of the International Astronomical Union held at Goa India December 3 7 1985 Soil Survey of Jones County, South Dakota Allen A. Faulkner, 1999

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