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What You Should Do Understanding Populations Holt Environmental Science
Population control measures not focused on awareness and empowerment could worsen the sex ratio at
birth, exacerbated by Indian society ' s preference for male children.

Why UP ' s Population Control Bill May Be Dangerous

Scientists at Oak Ridge National Laboratory and the University of Wisconsin-Madison have discovered that
genetically distinct populations within the same species of fungi can produce unique mixes of ...

Population-specific diversity within fungi species could enable improved drug discovery

Scientists from NOAA's Southeast Fisheries Science Center recently completed the first leg of a mission to

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survey marine mammals and other protected species in waters off the southeast coast of the ...

Experts Collaborate on Mission to Document Protected Species

The extraordinary ability of animals to rapidly evolve in response to predators has been demonstrated via genetic sequencing of a waterflea population across nearly two decades.

Rapid evolution in waterfleas yields new conservation insights

Along with climate change and a widespread loss of biodiversity, plastic pollution now plays a predominant role in altering ecosystems globally. Here, we review the occurrence of plastic ingestion by ...

Plastic ingestion as an evolutionary trap: Toward a holistic understanding

Climate change and the geosciences risk being seen as largely 'white sciences' in the Global North. Research shows that racial minority students are significantly underrepresented in Geology and ...

Racial minorities 'systematically excluded' from geology and climate change sciences

Natasha BrennanMcClatchy Northwestnbrennan@mcclatchy.com Tribes from the Columbia Basin gathered at the historic Salmon and Orca Summit earlier this month to ...

Preserving their way of life

As the seal population has grown ... It ' s not just a novel experiment for understanding shark behavior. Some researchers see it as emblematic of a growing shift in conservation science, as well as in ...

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Can Swimmers and Sharks Coexist? Smarter Maps Might Help

based on peer reviewed science, ” Treves said in an interview. He continued, “ What it means is that our estimates of the population are, really, plausible maximum population status.

In Wisconsin, an Overzealous Hunt Decimated the Local Wolf Population

A department of diverse faculty & students dedicated to solving critical environmental challenges with cutting-edge research. The Department of Natural Resources & Environmental Science offers ...

Department of Natural Resources & Environmental Science

natural resources and environmental science; and nutrition, we're ready to help you grow your future. A minor in wildlife ecology and conservation offers you the chance to learn more about protecting ...

Bachelor's degree in wildlife ecology and conservation

Hurtigruten Expeditions, the world leader in exploration travel and advocate for sustainable travel, is strengthening its partnership with the California Ocean Alliance (COA), a research, conservation ...

Hurtigruten Expeditions Partners with California Ocean Alliance to Study and Protect Whales in Antarctica

As climate change continues to alter the temperature and chemistry of the ocean, new approaches and pathways are needed for governments to manage ocean fisheries, a publication in the ICES Journal of ...

In the Face of Climate Change, New Policy Approaches Needed for Managing Fisheries

the Math and Science Partnership program, the Digital Libraries Initiative, and the Course, Curriculum, and

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Laboratory Improvement program. Much of NSF's support for environmental research is focused ...

About ERE

The true cost of food is even higher than you think, a new report out Thursday says. The U.S. spends \$1.1 trillion a year on food. But when the impacts of the food system on different parts of our ...

The health and climate consequences of the American food system cost three times as much as the food itself
Disparities within our healthcare system are stretching the gaps within communities. Data science can help attain health equity for everyone.

Data and disparities: How computational sciences can close health care gaps | Opinion

3 School of Civil and Environmental Engineering ... types of knowledge that are pivotal to understanding and framing planned relocation (e.g., capturing perspectives from the relocating, receiving, ...

Planned relocation: Pluralistic and integrated science and governance

Great whites have returned to Cape Cod. Can new tools help beachgoers predict the likelihood that a shark is nearby?

In Cape Cod, new efforts to coexist with sharks

In a recent editorial, Thornton et al 1 argued that ' Like folklore hero Robin Hood, we - sport and exercise medicine (SEM) scientists and practitioners - can draw on the opportunity and expertise ...

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Opportunities and obstacles of translating elite sport research to public health

“ Science ” is a variable, not a constant. “ Science is the pursuit and application of knowledge and understanding of ... “ An Essay on the Principle of Population ” where he argued that ...

The major subdisciplines of ecology--population ecology, community ecology, ecosystem ecology, and evolutionary ecology--have diverged increasingly in recent decades. What is critically needed today is an integrated, real-world approach to ecology that reflects the interdependency of biodiversity and ecosystem functioning. *From Populations to Ecosystems* proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today's emerging global ecological crisis. Michel Loreau begins by explaining how the principles of population dynamics and ecosystem functioning can be merged. He then addresses key issues in the study of biodiversity and ecosystems, such as functional complementarity, food webs, stability and complexity, material cycling, and metacommunities. Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial issue of the evolution of entire ecosystems and their properties, laying the theoretical foundations for a genuine evolutionary ecosystem ecology. *From Populations to Ecosystems* points the way to a much-needed

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synthesis in ecology, one that offers a fuller understanding of ecosystem processes in the natural world.

A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic, genetic, and spatial analyses in population ecology. The chapters present current problems, introduce advances in analytical methods and models, and demonstrate the applications of quantitative methods to ecological data. The book covers new tools for designing robust field studies; estimation of abundance and demographic rates; matrix population models and analyses of population dynamics; and current approaches for genetic and spatial analysis. Each chapter is illustrated by empirical examples based on real datasets, with a companion website that offers online exercises and examples of computer code in the R statistical software platform. Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper-level undergraduate and graduate students taking courses in population ecology or ecological statistics, as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments.

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Williams, Damon L. Williford

Population health has recently grown from a series of loosely connected critiques of twentieth-century public health and medicine into a theoretical framework with a corresponding field of research—population health science. Its approach is to promote the public's health through improving everyday human life: affordable nutritious food, clean air, safe places where children can play, living wages, etc. It recognizes that addressing contemporary health challenges such as the prevalence of type 2 diabetes will take much more than good hospitals and public health departments. Blending philosophy of science/medicine, public health ethics and history, this book offers a framework that explains, analyses and largely endorses the features that define this relatively new field. Presenting a philosophical perspective, Valles helps to clarify what these features are and why they matter, including: searching for health's "upstream" causes in social life, embracing a professional commitment to studying and ameliorating the staggering health inequities in and between populations; and reforming scientific practices to foster humility and respect among the many scientists and non-scientists who must work collaboratively to promote health. Featuring illustrative case studies from around the globe at the end of all main chapters, this radical monograph is written to be accessible to all scholars and advanced students who have an interest in health—from public health students to professional philosophers.

Scientists have long sought to unravel the fundamental mysteries of the land, life, water, and air that surround us. But as the consequences of humanity's impact on the planet become increasingly evident, governments are realizing the critical importance of understanding these environmental systems and

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investing billions of dollars in research to do so. To identify high-priority environmental science projects, Grand Challenges in Environmental Sciences explores the most important areas of research for the next generation. The book's goal is not to list the world's biggest environmental problems. Rather it is to determine areas of opportunity that "with a concerted investment" could yield significant new findings. Nominations for environmental science's grand challenges were solicited from thousands of scientists worldwide. Based on their responses, eight major areas of focus were identified "areas that offer the potential for a major scientific breakthrough of practical importance to humankind, and that are feasible if given major new funding. The book further pinpoints four areas for immediate action and investment.

Over the years, the scope of our scientific understanding and technical skills in ecology and environmental science have widened significantly, with increasingly greater emphasis on societal issues. In this book, an attempt has been made to give basic concepts of ecology, environmental science and various aspects of natural resource conservation. The topics covered primarily deal with environmental factors affecting organisms, adaptations, biogeography, ecology of species populations and species interactions, biotic communities and ecosystems, environmental pollution, stresses caused by toxics, global environmental change, exotic species invasion, conservation of biodiversity, ecological restoration, impact assessment, application of remote sensing and geographical information system for analysis and management of natural resources, and approaches of ecological economics. The main issues have been discussed within the framework of sustainability, considering humans as part of ecosystems, and recognising that sustainable development requires integration of ecology with social sciences for policy formulation and implementation.

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