

Article

Effect of Environmental Planning on Elderly Individual Quality of Life in Severe Cold Regions: A Case Study in Northeastern China

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Abstract: With the development of urbanization and the ageing population, the improvement of the urban environment and the quality of life (QOL) of the elderly in cities with a cold climate have become critical issues to be addressed. However, only a few studies have focused on this aspect. According to a review of the literature, the contents of the built environment (BE) in severe cold regions are defined as thirteen key factors of four categories (density, environmental aesthetics, outdoor environment, and accessibility) and the QOL of old people consists of three aspects (residential, health, and social satisfaction). This study explores how BE variables are associated with the QOL of older adults by using ordered logit and gologit2 models. The data consist of the results of 1945 questionnaires from field surveys in 11 different residential areas, across two cities in northeastern China. The results show: (1) Walkability in winter, distance to a public park of 400–1000 m, outdoor shelters and seating, less than five buses available, and a mixture of evergreen and deciduous trees are five of the most important variables of BE that have a significant positive impact on QOL compared with other climatic regions; (2) “Pocket parks” and pedestrian walkway safety are appropriate approaches to improve wellbeing under local economic conditions. For public transportation, metro and rail transit systems are encouraged, and some rules are needed to reduce the number of buses in harsh weather conditions; (3) Compared with spatial distribution in other climates, the scope of a 15 min city should be less than 1 km in severe cold areas. From the findings, we conclude that there are six possible pattern languages to improve the urban environment, and they can provide information for further study on environmental planning in severe cold regions.

Keywords: environmental planning; quality of life of the elderly; cold climate regions; generalized ordered logit models; marginal effect



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1. Introduction

Over the past few years, as the economy has increased, urban space and the life expectancy of the elderly have been growing. According to the UN data, the proportion of old people over 65 reached 1 in 7 of the global population in 2019, and will reach 1 in 6 by 2050 [1]. For most developing countries, there is a general lack of sustainable strategies for regional sustainability [2], which causes the unrestrained use of resources; the main consequence of a crowded city [3]. The living environment demanded by the urban elderly is facing increasingly serious challenges. Moreover, the availability of outdoor environment is becoming more limited in cities due to the impact of different national prevention and control measures, which significantly reduced well-being and quality of life (QOL) during the coronavirus (COVID-19) pandemic [4,5]. A 15 min city is frequently presented as an optimal strategy in this situation. Additionally, as a method that can be easily used, pattern language is utilized to improve towns and neighbourhoods. Like the network of language, the sequence of patterns is not only a summary of language, but also an index to the

Environmental Case Studies Northeastern Region

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Environmental Case Studies, Northeastern Region Dorothy B. Rosenthal, 1996-02-02 **Advances in Crop**

Environment Interaction Santanu Kumar Bal, Joydeep Mukherjee, Burhan Uddin Choudhury, Ashok Kumar

Dhawan, 2018-11-02 Agriculture is currently facing multi faceted threats in the form of unpredictable weather variability frequent droughts and scarcity of irrigation water together with the degradation of soil resources and declining environmental health These stresses result in the modification of plant physiology to impart greater resilience to changing abiotic and biotic environments but only at the cost of declining plant productivity In light of these facts assessing the status of natural resource bases and understanding the mechanisms of soil plant environment interactions so as to devise adaptation and mitigation approaches represent great and imminent challenges for all of us In this context it is essential to understand the potential applications of modern tools existing coping mechanisms and their integration as this will allow us to develop suitable advanced mitigation strategies From a broader perspective the book deals with crop environment interaction in the context of changing climatic conditions To do so it addresses four major aspects Understanding the mechanism of carbon dynamics in the soil plant environment continuum greenhouse gas fluxes in agricultural systems and soil properties influenced by climate change and carbon sequestration processes Mitigation and management of the photo thermal environment to improve crop productivity soil health under variable climate reducing agro ecosystem evapotranspiration losses through biophysical controls and heat stress in field crops and its management Studying the impact of climate change on biotic environments insect pest interactions manifestations of disease and adaptation strategies for island agro ecosystems Innovative approaches to assess stress impacts in crops such as crop modeling remote sensing spectral stress indices etc The book presents a collection of contributions from authoritative experts in their respective fields Offering young researchers new perspectives and future research directions it represents a valuable guide for graduate students and academics alike **Regional Environmental Politics in Northeast Asia** Jeongwon Bourdais

Park, 2018-11-12 The share of global CO₂ emissions from the core Northeast Asian NEA countries in 2015 was estimated to be as high as 33.63 percent Representing 28.21, 3.67 and 1.75 percent of total global emissions China Japan and South Korea were ranked the first fifth and seventh largest contributors respectively Some parts of China the Republic of Mongolia the Russian Far East and Southeast Asia have long been on serious alert due to accelerated deforestation With their rapid population growth and economic development the core countries of Northeast Asia are responsible both directly and indirectly for numerous environmental problems Urgent individual and collective action is required from the region's governments Against the backdrop of debate on how to understand Northeast Asia as a region Park focuses on the major regional economies of China Japan and South Korea along with Russia North Korea and the Republic of Mongolia due to both their geopolitical proximity and their significance to the region The author attempts to answer the questions How far has

regional environmental cooperation progressed in Northeast Asia and Why are Northeast Asian countries reluctant to cooperate further on urgent transboundary and regional environmental issues

Case Studies in Environmental Archaeology Elizabeth Reitz, C. Margaret Scarry, Sylvia J. Scudder, 2008 This book highlights studies addressing significant anthropological issues in the Americas from the perspective of environmental archaeology The book uses case studies to resolve questions related to human behavior in the past rather than to demonstrate the application of methods Each chapter is an original or revised work by an internationally recognized scientist This second edition is based on the 1996 book of the same title The editors have invited back a number of contributors from the first edition to revise and update their chapter New studies are included in order to cover recent developments in the field or additional pertinent topics

Agriculture and a Changing Environment in Northeastern India Sumi Krishna, 2020-11-29 India's northeastern region forged by a unique geological history and peopled by several waves of migration is extraordinarily complex Farming systems in the hills and the riverine plains are embedded in a heterogeneous environment comprising forests wetlands and fields shaped over centuries by nature and people Today the environment and economy are undergoing rapid transformation affecting people's lives livelihoods and methods of food production The essays in this volume bring a multi-disciplinary perspective to critical aspects of the process of agricultural change examine the gender dimensions of agriculture and explore initiatives for sustainable livelihood and ecological conservation Part I analyses the impact of policies and people's own aspirations on the closely intertwined ecology and economy of the region Part II discusses the gender dynamics of farming forestry and biodiversity in a socio-cultural context where women are primarily responsible for food production Part III highlights some alternative farming interventions and community-based efforts for environmental conservation sustainable resource management and improved livelihoods This book will be useful to scholars and students of agriculture economics development environment and gender studies and to those involved in policy analysis natural resource management and community organisation as also general readers interested in India's northeastern region

Northeastern Regional Powerplant Conversion, 1981

The Environment-Conflict Nexus Francis Galgano, 2018-07-15 The aim of this book is to demonstrate how environmental factors have caused an evolution in the landscape of national security since the end of the Cold War Through relevant case studies the scope of the problem on the national security landscape due to environmental stressors is illuminated examined and synthesized with climate-related data Human variables such as governance GDP and vulnerability are taken into account and are compared against environmental factors to more accurately determine the causative agents of regional conflicts which threaten national security These case studies comprise the majority of the text and they show how individual conflicts are uniquely influenced by environmental stress with variations from situation to situation This book will be of interest to government and military professionals and may serve as a resource for college courses in the areas of military geography international affairs and sustainability studies

Warming Mountains

Sachchidanand Tripathi, Rahul Bhadouria, Satish Chandra Garkoti, 2024-11-11 This contributed volume focuses on the sustainability of mountain ecosystems in the face of a changing climate Its chapters highlight climate change impacts on the livelihoods of the people and communities that live in mountains and ways that these effects can be mitigated through adaptive measures The chapters herein address a gamut of topics from use of remote sensing tools to assess changing ecosystems disaster management in mountains policymaking between institutions and more This book is suitable for students undergraduate and postgraduates of ecology and environmental studies sciences mountainous agriculture mountain forestry teachers researchers climate change scientists in academic and research institutions It will also be useful to environmental management agencies particularly working towards sustainable development in mountainous regions disaster management authorities government agencies and policy makers *Environmental Health Perspectives*, 2000 **Interior, Environment, and Related Agencies Appropriations for 2015: Native American and Alaska Native testimony, April 7, 2014; Native American and Alaska Native testimony, April 8, 2014; public witnesses, April 10, 2014; written testimony from individuals and organizations on behalf of Native Americans and Alaska Native; written testimony from individuals and organizations** United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014 *Interior, Environment, and Related Agencies Appropriations for 2015* United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014 *Environmental Impact of Agricultural Production Activities* Larry W. Canter, 2018-01-18 The book summarizes actual and or relative environmental impacts resulting from existing and emerging agricultural production technologies as practised in the USA Case studies of environmental impacts of agricultural practices are discussed in one chapter while separate chapters consider water and soil air quality noise and waste impacts Air pollutants from cultivation operations burning agricultural vehicles harvesting and grain handling pesticide applications wind erosion etc are all considered Noise produced by agricultural activities and exposure patterns for agricultural workers are examined An annotated bibliography is included for the environmental impacts discussed in the text Emerging agricultural production technologies such as nitrogen fixation genetic engineering plant growth regulation erosion control water management and waste utilization etc are also compared for efficiency and environmental impacts Media, Politics and Environment Detlef Briesen, Sarada Prasanna Das, 2023-07-15 Environmental protection has not equally established itself as a permanent fixture in the political systems of all countries to date governments and entire societies have responded to environmental challenges in a variety of ways and concrete environmental policy is still a highly national matter Moreover the perception of environmental problems varies considerably on a global scale The reasons normally cited for these differences largely stem from the environmental policy debates themselves e g poverty ignorance capital interests etc In contrast this book shows that concrete environmental policy emerges from a complex interplay of mass media and political conflicts first the mass media

provide the framework for national environmental policy through agenda setting framing and scandalization second the mass media thereby change values in the political and social discourse e g by altering the perception of global commons and expanding the possibilities of interest articulation and third this can lead to political decision making processes in which legal and other measures for environmental protection are enforced The book systematically compares industrialized countries such as Germany and Japan with several rapidly emerging countries in South and Southeast Asia

The effects of climate change and anthropogenic activities on patterns, structures and functions of terrestrial ecosystems Guoqi

Wen,Cuicui Jiao,Wei Zhao,Wenping Yuan,2023-10-31

Wetland and Stream Rapid Assessments John Dorney,Rick

Savage,Ralph W Tiner,Paul Adamus,2018-08-07 Wetland and Stream Rapid Assessments Development Validation and Application describes the scientific and environmental policy background for rapid wetland and stream assessments how such assessment methods are developed and statistically verified and how they can be used in environmental decision making including wetland and stream permitting In addition it provides several case studies of method development and use in various parts of the world Readers will find guidance on developing and testing such methods along with examples of how these methods have been used in various programs across North America Rapid wetland and stream functional assessments are becoming frequently used methods in federal state and local environmental permitting programs in North America Many governments are interested in developing new methods or improving existing methods for their own jurisdictions This book provides an ideal guide to these initiatives Offers guidance for the use and evaluation of rapid assessments to developers and users of these methods as well as students of wetland and stream quality Contains contributions from sources who are successful in academia industry and government bringing credibility and relevance to the content Includes a statistically based approach to testing the validity of the rapid method which is very important to the usefulness and defensibility of assessment methods

Selected Water Resources Abstracts ,1972 *Gulf of Mexico Sales 157 and 161, Central and Western Planning Areas, Outer Continental Shelf (OCS (Outer Continental Shelf)) Oil and Gas Lease [AL,TX,MS,LA]* ,1995

Energy Research Abstracts ,1979

Environmental Science Daniel B. Botkin,Edward A. Keller,Dorothy

Rosenthal,1996-01-01

Bio-Cultural Diveristy & Sustainable Development In North East India Ajeya Jha,Sangeeta

Jha,S.Munjal,2009-01-01 This Book Explores The Ways To Address The Problem Of Deterioration Of Bio Cultural Diversity In North East Indian In The Name Of Development It Discusses At Length The Linkage Between Environmental Quality And Economic Growth

Enjoying the Beat of Term: An Psychological Symphony within **Environmental Case Studies Northeastern Region**

In a world taken by monitors and the ceaseless chatter of immediate interaction, the melodic splendor and emotional symphony produced by the written word frequently disappear in to the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, set within the pages of **Environmental Case Studies Northeastern Region** a stunning literary prize full of raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that captivating masterpiece conducts viewers on a psychological journey, skillfully unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths of the emotional evaluation, we shall examine the book is main harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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