

RESEARCH ARTICLE

Drivers of power line collisions and electrocutions of birds in Nepal

Suman Hamal¹ | Hari Prasad Sharma^{1,2}  | Ramji Gautam^{1,3} | Hem Bahadur Katuwal^{2,4}

¹Central Department of Zoology, Institute of Science and Technology, Tribhuvan University, Kathmandu, Nepal

²Nepal Zoological Society, Kathmandu, Nepal

³Priyshi Narayan Multiple Campus, Tribhuvan University, Pokhara, Nepal

⁴Center for Integrative Conservation, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Mengla, China

Correspondence

Hari Prasad Sharma, Central Department of Zoology, Institute of Science and Technology, Tribhuvan University, Kathmandu, Nepal.
Email: hprsharma@ioztu.edu.np

Abstract

Among the several anthropogenic factors, power lines are increasingly regarded as one of the most significant hazards to bird species, primarily owing to collisions and electrocutions. Nepal has comparatively fewer studies on the impact of power line collisions and electrocution on birds compared with developed nations. From November 2021 to May 2022, we assessed the effect of power line collisions and electrocutions on the mortality of birds in the Putalibazar Municipality of the Syangja district of Nepal. We established 117 circular plots in diverse habitats, including agricultural lands, forests, settlements, and river basins, along a 30.6 km long distribution line. Within 18 plots, we detected 43 fatalities of 11 species (17 individuals of six species due to collision and 26 individuals of eight species due to electrocution). House Swift (*Apus nipalensis*) and Common Myna (*Acridotheres tristis*) were the primary victims of the collision, whereas House Crow (*Corvus splendens*) and Rock Pigeon (*Columba livia*) were frequently observed electrocuted. We also recorded the electrocution of the critically endangered White-rumped Vulture (*Gyps bengalensis*). The total rate of bird power line collisions per kilometer was 0.55 birds, while the total electrocution rate per 10 poles was 2.22. The bird abundance, distance to agricultural regions, and proximity to human settlements were found to have a strong relationship with the mortality of birds caused by power lines. In order to reduce power line collisions and electrocution fatalities, we recommend conducting a detailed bird population study prior to determining the route of distribution lines.

KEYWORDS

agriculture lands, bird mortality, globally threatened birds, settlements, white-rumped vulture

TAXONOMY CLASSIFICATION

Biodiversity ecology

1 | INTRODUCTION

Globally, the development of power lines is expanding significantly. Usually, two types of power lines are constructed, that is,

transmission lines, the high-tension wires that carry electricity with a magnitude larger than 60 kV from the power plant to substations, and distribution lines, the high-tension wires that carry electricity with a magnitude between 1 and 60 kV (APLIC, 2012). Due to their

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Birds And Power Lines Collisions Electrocutions And Breeding

Rafael Mateo, Beatriz Arroyo, Jesus T. Garcia



Birds And Power Lines Collisions Electrocutions And Breeding:

Birds and Power Lines Miguel Ferrer, Guyonne F. E. Janss, 1999 **Protecting Birds from Powerlines** D. Haas, 2005-01-01 **Environment Concerns in Rights-of-Way Management 8th International Symposium** John W. Goodrich-Mahoney, Lawrence Abrahamson, Jennifer Ballard, Susan Tikalsky, 2011-08-11 The management of rights of way by electric and telephone utilities highway departments gas pipeline companies and railroads around the world is guided and constrained by policies and regulations to protect the environment Companies that manage rights of way are required to comply with these regulations and are seeking the most cost effective management practices that at the same time demonstrate stewardship of the environment Protection of biodiversity and sustainable development are especially important as national goals in many countries and rights of way managers are seeking practical ways to include public participation in their operations Addresses environmental issues in rights of way planning and management Provides a forum for information exchange among various agencies industries environmental consultants and academic organizations Presents peer reviewed papers to help achieve a better understanding of current environmental issues involved in rights of way management **A Roadmap for PIER Research on Avian Collisions with Power Lines in California** Kevin Hunting, 2002 **Current Trends in Wildlife Research** Rafael Mateo, Beatriz Arroyo, Jesus T. Garcia, 2016-04-25 This book the first in the Wildlife Research Monograph series defines wildlife research in a variety of contexts and reviews recent research trends The authors present the current developments they have identified using bibliometric analyses of the most common relevant and emerging topics in wildlife research over the last three decades Diverse aspects of wildlife research are discussed including wildlife demography infections spread between wildlife livestock and humans habitat requirements and management as well as the effects of renewable energy and pollutants on wildlife Furthermore the authors explore topics like advances in the study of species distribution invasive species use of molecular markers in wildlife studies and the sustainability of wildlife exploitation and conservation conflicts The book offers a comprehensive overview of advances in wildlife research in the last decades **Birds of Prey** José Hernán Sarasola, Juan Manuel Grande, Juan José Negro, 2018-06-30 This book will provide the state of the art on most of the topics involved in the ecology and conservation of birds of prey With chapters authored by the most recognized and prestigious researchers on each of the fields this book will become an authorized reference volume for raptor biologists and researchers around the world **Bird Conservation Implementation and Integration in the Americas** , 2005 **The Migration Ecology of Birds** Ian Newton, 2023-12-02 The Migration Ecology of Birds Second Edition covers all aspects of this absorbing subject including migratory processes problems of navigation and vagrancy timing and physiological control of migration large scale movement patterns the effects of recent climate change the problems that migrants face and the factors that limit their populations This book provides a thorough and in depth review of the state of the science with the text supplemented by abundant tables maps and diagrams Written by a world renowned

avian ecology and migration researcher this book reveals the extraordinary adaptability of birds to the variable and changing conditions across the globe This book represents the most updated and detailed review of bird migration its evolution ecology and bird physiology Written in a clear and readable style it will appeal not only to migration researchers in the field and ornithologists but to anyone with an interest in this fascinating subject Features updated and trending ecological aspects including various types of bird movements dispersal and nomadism and how they relate to food supplies and other external conditions Contains numerous tables maps diagrams a glossary and a bibliography of more than 3 000 up to date references Written by an active researcher with a distinguished career in avian ecology including migration research

The American Bird Conservancy Guide to Bird Conservation Daniel J. Lebbin, Michael J. Parr, George H. Fenwick, 2010-10-15 Whether we live in cities in the suburbs or in the country birds are ubiquitous features of daily life so much so that we often take them for granted But even the casual observer is aware that birds don't fill our skies in the number they once did That awareness has spawned conservation action that has led to notable successes including the recovery of some of the nation's most emblematic species such as the Bald Eagle Brown Pelican Whooping Crane and Peregrine Falcon Despite this a third of all American bird species are in trouble in many cases they're in imminent danger of extinction The most authoritative account ever published of the threats these species face The American Bird Conservancy Guide to Bird Conservation will be the definitive book on the subject The Guide presents for the first time anywhere a classification system and threat analysis for bird habitats in the United States the most thorough and scientifically credible assessment of threats to birds published to date as well as a new list of birds of conservation concern Filled with beautiful color illustrations and original range maps the Guide is a timely important and inspiring reference for birders and anyone else interested in conserving North America's avian fauna But this book is far more than another shout of crisis The Guide also lays out a concrete and achievable plan of long term action to safeguard our country's rich bird life Ultimately it is an argument for hope Whether you spend your early weekend mornings crouched in silence with binoculars in hand hoping to check another species off your list or you've never given much thought to bird conservation you'll appreciate the visual power and intellectual scope of these pages

Airborne Wind Energy Roland Schmehl, 2018-03-31 This book provides in depth coverage of the latest research and development activities concerning innovative wind energy technologies intended to replace fossil fuels on an economical basis A characteristic feature of the various conversion concepts discussed is the use of tethered flying devices to substantially reduce the material consumption per installed unit and to access wind energy at higher altitudes where the wind is more consistent The introductory chapter describes the emergence and economic dimension of airborne wind energy Focusing on Fundamentals Modeling Simulation Part I includes six contributions that describe quasi steady as well as dynamic models and simulations of airborne wind energy systems or individual components Shifting the spotlight to Control Optimization Flight State Measurement Part II combines one chapter on measurement techniques with five chapters on

control of kite and ground stations and two chapters on optimization Part III on Concept Design Analysis includes three chapters that present and analyze novel harvesting concepts as well as two chapters on system component design Part IV which centers on Implemented Concepts presents five chapters on established system concepts and one chapter about a subsystem for automatic launching and landing of kites In closing Part V focuses with four chapters on Technology Deployment related to market and financing strategies as well as on regulation and the environment The book builds on the success of the first volume Airborne Wind Energy Springer 2013 and offers a self contained reference guide for researchers scientists professionals and students The respective chapters were contributed by a broad variety of authors academics practicing engineers and inventors all of whom are experts in their respective fields A Roadmap for PIER Research on Avian Power Line Electrocution in California Kevin Hunting,2002 **General Technical Report PSW. ,2005** **Testing the Effectiveness of an Avian Flight Diverter for Reducing Avian Collisions with Distribution Power Lines in the Sacramento Valley, California ,2008** *Problematic Wildlife* Francesco M. Angelici,2015-12-18 This book provides insight into the instances in which wildlife species can create problems Some species trigger problems for human activities but many others need humans to save them and to continue to exist The text addresses issues faced by economists and politicians dealing with laws involving actions undertaken to resolve the problems of the interaction between humans and wildlife Here the words problematic species are used in their broadest sense as may be appreciated in the short introductions to the various sections At times the authors discuss special cases while always extending the discussion into a more general and broad vision At others they present real cutting edge analysis of ecological topics and issues The book will be of interest to biologists ecologists and wildlife managers involved in research on wildlife parks and environmental management as well as to government departments and agencies NGOs and conservation wildlife organizations Even those in contact with nature such as hunters herders and farmers will be able to find a great deal of important information Specific case studies are selected from among the most significant and prevalent cases throughout the world A total of 26 papers have been selected for this book written by zoologists biologists and ecologists Many have an interdisciplinary approach with contributions by economists criminologists technical specialists and engineers **The Routledge Handbook of Environmental Economics in Asia** Shunsuke Managi,2015-02-11 Problems of climate change biodiversity and air pollution are clearly growing globally but more particularly in Asia because of its economic importance and richness in nature The increasing interest in environmental and resource economics applied in regions of Asia will make this book an outstanding resource to the existing literature particularly in the fields of environmental and resource economics and the integration of applied content in traditional and agricultural development At present there is no single handbook or text on the state of current knowledge in environmental economics in Asia or one which offers a comprehensive guide to students and academics on the subjects of environmental economics research This book will help to fill the gap in the existing literature **Energy**

Development and Wildlife Conservation in Western North America David E. Naugle, 2012-06-22 Energy Development and Wildlife Conservation in Western North America offers a road map for securing our energy future while safeguarding our heritage Contributors show how science can help craft solutions to conflicts between wildlife and energy development by delineating core areas identifying landscapes that support viable populations and forecasting future development scenarios to aid in conservation design The book frames the issue and introduces readers to major types of extraction quantifies the pace and extent of current and future energy development provides an ecological foundation for understanding cumulative impacts on wildlife species synthesizes information on the biological response of wildlife to development discusses energy infrastructure as a conduit for the spread of invasive species compares impacts of alternative energy to those of conventional development The final section calls for a shift away from site level management that has failed to mitigate cumulative impacts on wildlife populations toward broad scale planning and implementation of conservation in priority landscapes The book concludes by identifying ways that decision makers can remove roadblocks to conservation and provides a blueprint for implementing conservation plans Energy Development and Wildlife Conservation in Western North America is a must have volume for elected officials industry representatives natural resource managers conservation groups and the public seeking to promote energy independence while at the same time protecting wildlife

Birder's Conservation Handbook Jeffrey V. Wells, 2010-04-18 Until now there has been no single comprehensive resource on the status of North America's most threatened birds and what people can do to help protect them Birder's Conservation Handbook is the only book of its kind written specifically to help birders and researchers understand the threats while providing actions to protect birds and their habitats Jeffrey Wells has distilled vast amounts of essential information into a single easy to use volume required reading for anyone who loves birds and wants to ensure they are protected At a glance species accounts cover in detail North America's one hundred most at risk birds each account is beautifully illustrated by today's top bird artists The text includes status distribution ecology threats conservation actions and needs and references A distribution map accompanies each entry Chapters discuss birds as indicators of environmental health the state of North American bird populations major conservation issues and initiatives now underway to improve the health of North America's birds Birder's Conservation Handbook is an indispensable resource for birdwatchers researchers naturalists and conservationists Reading it will inspire you to become an active steward of our birds and the habitats we share A comprehensive guide to North America's one hundred most at risk birds and how to protect them Compact and easy to use with beautiful illustrations and data organized for convenient at a glance reference Detailed species accounts including distribution maps Practical advice on conservation Information on leading conservation agencies and resources

Wright Area Coal Lease Applications, 2010 **San Bernardino National Forest (N.F.), Lucerne Valley to Big Bear Valley Transmission Line/Substation Project, Construction and Operation of Three Electrical Power Facilities**, 1998 Improving Methods for Estimating Fatality of Birds and Bats at

Wind Energy Facilities William Warren-Hicks, 2013

The Enigmatic Realm of **Birds And Power Lines Collisions Electrocutions And Breeding**: 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 **Birds And Power Lines Collisions Electrocutions And Breeding** 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 impact on the hearts and minds of those who partake in its reading experience.

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