

Human-Elephant Terror and its Destruction to Human Settlement at BahundangiVDC, Jhapa, Nepal



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Batch: 067/068

A thesis submitted in partial fulfillment of the requirement for the award of the degree of Master of Science in Zoology with special paper Ecology.

Submitted to

Central Department of Zoology
Institute of Science and Technology
Tribhuvan University
Kritipur, Kathmandu
Nepal
December, 2015

DECLARATION

I hereby declare that the work presented in this thesis has been done by myself, and has not been submitted elsewhere for the award of any degree. All sources of information have been specifically acknowledged by reference to the author(s) or institution(s).

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RECOMMENDATIONS

This is to recommend that the thesis entitled **“Human-Elephant terror and its Destruction to Human Settlements at Bahundangi VDC, Jhapa, Nepal”** has been carried out by Mr. Dilli Prasad Koirala for the partial fulfillment of Master’s Degree of Science in Zoology with special paper Ecology. This is his original work and has been carried out under my supervision. To the best of my knowledge, this thesis has not been submitted for any other degree in any institutions.

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LETTER OF APPROVAL

On the recommendation of supervisor Prof. Dr. Ramesh Shrestha this thesis submitted by Mr. Dilli Prasad Koirala entitled “**Human-Elephant terror and its Destruction to Human Settlements at Bahundangi VDC, Jhapa, Nepal**” is approved for the examination in submitted to the Tribhuvan University in partial fulfillment of the requirements for Master’s Degree of Science in Zoology with special paper Ecology.

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CERTIFICATE OF ACCEPTANCE

This thesis work submitted by Mr. Dilli Prasad Koirala entitled “**Human-Elephant terror and its Destruction to Human Settlements at Bahundangi VDC, Jhapa, Nepal**” has been accepted as a partial fulfillment for the requirements of Master’s Degree of Science in Zoology with special paper Ecology.

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ACKNOWLEDGEMENTS

I gratefully express my happiness of deep indebtedness to my respected supervisor Prof. Dr. Ramesh Shrestha, Central Department of Zoology, Tribhuvan University for his great instruction, vital guidance and uninterrupted kind co-operation.

Similarly, I am grateful to Prof. Dr. Ranjana Gupta, Head of Department of Zoology for her administrative assistance. I am Indebted to the Associate Prof. Dr. Mukesh Kumar Chalise, Central Department of Zoology, who encouraged me to fortunate to extend my sincere thanks to the teaching and administrative staff of Central Department of Zoology, Tribhuvan University for their all kinds of cooperations during my academic sessions.

I would like to thank the staff of VDC office, Bahundangi for providing me the significant information. My special thanks go to Mr. Surendra Nembang, Secretary of Bahundagi VDC office and Mr. Arjun Kumar Karki, Chairperson, Nature Conservation Society, Bahundangi, for providing me all the facts, figures, data and map of the VDC.

I am indebted to Mr. Semanta Raj Neupane, Ramesh Khadka, Binod Koirala, Sandip Kafle, Koshraj Dahal and others for their immense Support during the research hours.

I express my thanks to colleague Sandesh Shrestha for his cooperation during field visit and preparing this manuscript and Pramod Shah for making my stay comfortable in the village.

Similarly, I would like to thank my friend Bishnu Thapa, Shyam Kumar Pun and Umesh Pokhrel for their valuable suggestions, cooperation and technical support. Finally, I express my special gratitude to my respected parents and all family members for their inspiration, strong support and perpetual kind co-operation.

December, 2015

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ABSTRACT

Although Nepal has the second least number of wild Asian Elephants in the world, some of the country's areas are usually terrorized by resident and visiting elephant herds from time to time. And, Bahundangi VDC in Jhapa, east Nepal is one of such place where numerous conflicts between wild Asian Elephants and human settlements are occurring frequently. The current study has been done in order to identify such conflicts like loss of properties and loss of lives of the human being there, so that possible management measure could be developed in order to mitigate problem for the betterment. Out of 249470 Kg of damaged crops 57.84%, 40.22% and 1.93% of paddy, maize and millet have been damaged by wild elephants. Similarly 3340 plants of bamboo, 170 plants of coconut, 408 plants of bettlenut and 370 kg of ginger were damaged. Twenty six people were attacked by wild elephants from 1992 to 2015. Among 26 people 12 people were killed in Bahundangi VDC of Jhapa district. Elephants with calves were more dangerous than other groups and highest intensity occurs in June, July, November and December.

The total economic loss was Rs.5514076.25. Shouting and chasing with fire and foggy lights which is most common local preventive measure. Bee-hive keeping, chilly and cactus plantations were more effective in preventive measures. The government should provide effective compensation to the affected farmers to deter elephants and formalize transboundary co-operation with India to mitigate the terror.

Keys words: Asian elephant, Bahundangi, conflicts, crops and local people.

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LIST OF ABBREVIATIONS

Bdr	:	Bahadur
B.K.	:	Bishwakarma
BNP	:	Bardia National Park
CNP	:	Chitwan National Park
CITIES	:	Convention of International Trade in Endangered Species of flora and fauna
CDO	:	Chief District Office
CDZ	:	Central Department of Zoology
DDC	:	District Development Committee
DNPWC	:	Department of National Park and Wildlife Conservation
DFRS	:	Department of Forest Resources Survey
EBC	:	Elephant Breeding Centre
FAO	:	Food and Agriculture Organization
FUG	:	Forest User Groups
GON	:	Government of Nepal
HH	:	Household
HHs	:	Households
IUCN	:	International Union for the Conservation of Nature
Kg	:	Kilogram
Km	:	Kilometre
MPFS	:	Master Plan For Forestry Sector
MoFSC	:	Ministry of Forest and Soil Conservation
NAD	:	Net Area Damage
NC	:	Nepal Currency
No.	:	Number
NRs.	:	Nepalese Rupees
%	:	Percentage

PAs	:	Protected Areas
Pd.	:	Prasad
SWR	:	Shuklaphanta Wildlife Reserve
Sq.	:	Square
TAL	:	Terai Arc Landscape
TU	:	Tribhuvan University
UNHCR	:	United Nations High Commission on Refugees
VDC	:	Village Development Committee
WWF	:	World Wildlife Fund