

ESTIMATION OF POPULATION AND PERCEPTION OF LOCALS ON MONGOOSE IN BAGUWA VDC, GORKHA DISTRICT, NEPAL



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Master of Science in Zoology with special paper ecology and environment.

Submitted to

Central Department of Zoology
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Tribhuvan University
Kirtipur, Kathmandu
Nepal
November 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 authors or institutions.

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RECOMMENDATION

This is to recommend that the thesis entitled “**ESTIMATION OF POPULATION AND PERCEPTION OF LOCALS ON MONGOOSE IN BAGUWA VDC, GORKHA DISTRICT, NEPAL**” has been carried out by Ram Chandra Dhakal for the partial fulfilment of Master’s Degree of Science in Zoology with special paper ecology and environment. This is his original work and has been carried out under my supervision. To the best of my knowledge, this thesis work has not been submitted for any other degree in any institutions.

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LETTER OF APPROVAL

On the recommendation of supervisor “Dr. Mukesh Kumar Chalise” this thesis submitted by Ram Chandra Dhakal entitled “**ESTIMATION OF POPULATION AND PERCEPTION OF LOCALS ON MONGOOSE IN BAGUWA VDC , GORKHA DISTRICT, NEPAL**” is approved for the examination and submitted to the Tribhuvan University in partial fulfilment of the requirements for Master’s Degree of Science in Zoology with special paper Ecology and Environment.

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CERTIFICATE OF ACCEPTANCE

This thesis work submitted by Ram Chandra Dhakal entitled “**ESTIMATION OF POPULATION AND PERCEPTION OF LOCALS ON MONGOOSE IN BAGUWA VDC, GORKHA DISTRICT, NEPAL**” has been accepted as a partial fulfilment for the requirements of Master’s Degree of Science in Zoology with special paper ecology and environment.

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Abstract

The study entitled estimation of population and perception of locals on mongoose in Baguwa VDC, Gorkha, Nepal was conducted in between January 2014 to Dec 2014 in mid western part of Nepal. Objectives of the study are to find out the estimated population, and explore the perception of locals on mongoose in and around the study site. Line transect, questionnaire, direct observation and quadrat sampling methods were used. All together there were 151 observations of mongooses counted. Among the three different habitats of mongoose named as natural forest, cultivated land and human settlement based on preliminary field survey, mongoose was found not selecting all habitats equally and also was not distributed equally ($\lambda^2 = 122.5$; d.f.= 2). Perception of local people on mongoose conservation and their educational level were significantly associated (Pearson chi-square=36.36, df =3, p <0.001). More people with high education supported the conservation of mongoose including other wildlife. Similarly, perception and gender showed a significant association (Pearson Chi-square = 11.77, df = 1, p <0.001). More male population was obtained to be interested to conserve mongoose. Mongoose did not harmful to the farmers, it was beneficial therefore conservation awareness programs should be conducted in those areas where mongoose occurred.

Key words: mongoose, local people, quadrat sampling, Gorkha, Nepal