STUDY ON AGROFORESTRY PRACTICES ON SENCHEL-MAHANANDA CORRIDOR VILLAGES OF DARJEELING

A DISSERTATION SUBMITTED TO the Faculty of Humanities and Social Sciences in partial fulfillment of the requirement for the Master Degree in Geography

By
SISHIR CHETTRI
CENTRAL DEPARTMENT OF GEOGRAPHY
TRIBHUVAN UNIVERSITY
KIRTIPUR, NEPAL
2007

TRIBHUVAN UNIVERSITY CENTRAL DEPARTMENT OF GEOGRAPHY

STUDY ON AGROFORESTRY PRACTICES ON SENCHEL-MAHANANDA CORRIDOR VILLAGES OF DARJEELING

APPROVED BY
Dissertation Committee

ACKNOWLEDGEMENT

This dissertation is submitted to Tribhuban University, Kirtipur in partial fulfillment of requirement for Master's Degree in Geography.

I would like to express my sincere gratitude and appreciation to Dr. Bhim Prasad Subedi, head of the department, Geography for his valuable guidance, encouragement and comments to complete this study. I am equally grateful to all my respected teachers who helped me directly or indirectly during the preparation of this dissertation.

This dissertation is an outcome of inspiration, encouragement and cooperation. There are many more persons who have directly or indirectly had been a source of moral support, thus all whosoever was beside me for my work deserve my thanks.

Finally, I am very much grateful to my family for encouraging me to complete my study.

Sishir Chettri
Central Department of Geography
April 2007

TABLE OF CONTENTS

Acknowledgement	Page No
List of Tables	C
List of Maps	
List of Acronyms	
CHAPTER I	
INTRODUCTION	1
1.1 Background	3
1.2 Aims and Objectives	4
1.3 Limitation	4
1.4 Organization of the study	4
1.5 Review of Literature	5
CHAPTER II	
METHODOLOGY	9
2.1 Study Area - Darjeeling at a Glance	13
2.2 Nature and Sources of Data	13
2.3 Sampling Design	13
2.3.1 Household Survey	13
2.3.2 Focus Group Discussion	14
2.4 Data Analysis	14
CHAPTER III	
SOCIO-ECONOMIC CHARACTERISTICS OF	15
SENCHEL-MAHANANDA CORRIDOR	
3.1 Demographic Structure	15
3.1.1 Average Family Size	15
3.1.2 Age and Sex Distribution	16
3.1.3 Major Ethnic Groups	17
3.2 Education	17
3.3 Occupational Status	18
3.4 Land Holdings	19
3.5 Land Holding Size of Sample Household	20

CHAPTER IV

AGRICULTURE AND LIVESTOCK SITUATION	21
4.1. Agriculture	21
4.1.1 Land Use	23
4.1.2 Consumption	25
4.1.3 Crop Loss	27
4.1.4 Quantity Sold	28
4.2 Livestock	31
4.3. Market	33
CHAPTER V	
AGROFORESTRY IN SENCHEL-MAHANANDA CORRIDOR	35
5.1 Agro-forestry Products	35
5.2 Agro-forestry Production	35
5.3 Seasonality	37
5.4 Firewood Consumption	38
5.5 Source of Fodder	40
5.6 Conservation Initiatives	42
CHAPTER VI	
CONCLUSION AND RECOMMENDATION	44
6.1 Conclusion	44
6.2 Recommendation	47
REFERENCE	

APPENDICES

LIST OF TABLES

	Page No
1. Demographic structure	15
2. Average family size	16
3. Age and sex distribution	17
4. Education	18
5. Occupational status	19
6. Land holding	20
7. Land holding size of sample household	20
8. Agriculture	22
9. Land use	24
10. Consumption	26
11. Range of Agricultural products consumption	27
12. Quantity sold	29
13. Livestock	33
14. Agro-forestry production	36
15. Seasonality	38
16. Firewood consumption	40
17. Source of fodder	41
LIST OF MAPS	
	4.0
Location map of the study area	12