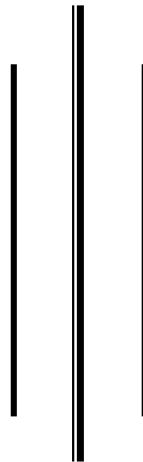


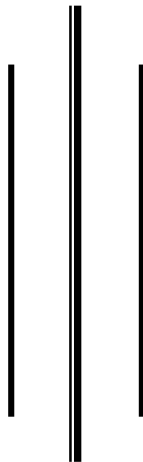
# "STUDY ON FISH DIVERSITY AND FISHERY RESOURCES OF THE TINAU RIVER"



**A Dissertation**

Submitted to the Institute of Science and Technology  
Central Department of Zoology  
Tribhuvan University

For the Partial Fulfillment of the Requirements for the M.Sc. Degree  
in Zoology  
**(Fish and Fisheries)**



By

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**RECOMMENDATION**

This is to certify that Mr. Shambhu Pokharel has completed his dissertation work entitled- "Study on Fish Diversity and Fishery Resources of the Tinau River" for the partial fulfillment of the M.Sc. Degree in Zoology under my supervision. To my knowledge, his work has not been submitted for any other degrees.

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**EVALUATION**

We the members of Evaluation Committee went thoroughly to this dissertation work and found him qualified for the award of M.Sc. Degree in Zoology with Fish and Fisheries as a specialization paper.

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**Shambhu Pokharel**

Date:        /        /

## ABSTRACT

The present study entitled- "Study on Fish Diversity and Fishery Resources of the Tinau River" deals with the present status of fish diversity, distribution pattern, socio-economic condition of fishermen, effect of dam on fisheries and fishing implements using around the Tinau river.

The present study reports a total of 32 fish species belonging to four orders viz. Cypriniformes, Siluriformes, Perciformes and Synbranchiformes. They belong to 11 families and 24 genera. Fishes were collected seasonally. Commonly found species in Tinau river are *Puntius* sps., *Barilius* sps., *Schistura* sps. and *Lepidocephalus* sps. The physicochemical parameters of river shows different habitats. The fish population in the river is decreasing due to dam construction and illegal fishing. The socio-economic status of fisherman is very poor. About 65% of fisherman were illiterate, however they have intension to educate their children. Both conventional as well as non-conventional fishing implements were found to be used in and around the Tinau river.

# CONTENTS

RECOMMENDATION	I
CERTIFICATE OF APPROVAL	II
EVALUATION	III
ACKNOWLEDGEMENTS	IV
ABSTRACT	V
CONTENTS	VI
LIST OF TABLES	X
LIST OF FIGURE	XI
LIST OF MAPS	XII
LIST OF PHOTOGRAPHS	XIII
LIST OF ABBREVIATIONS	XIV
<b>CHAPTER - I: INTRODUCTION</b>	<b>1-11</b>
1.1 General Background	1
1.2 Water Resources	2
1.2.1 Rivers of Nepal	3
1.3 Fishes and Fisheries of Nepal	4
1.3.1 Fish Diversity	5
1.3.2.1 Protection Status of Fishes	5
1.3.2 Status of Fisheries	8
1.4 Study Area	9
1.4.1 Study Sites	9
1.5 Plan of the Study	9
1.5.1 Objectives of the Study	9
1.5.2 Justification of the Study	10
1.5.3 Limitation of the Study	11

<b>CHAPTER-II: LITERATURE REVIEW</b>	<b>12-14</b>
<b>CHAPTER-III: MATERIALS AND METHODS</b>	<b>15-25</b>
3.1 Study Period	15-
3.2 Study Area	15
3.2.1 Selection of Study Sites	15
3.2.2 Description of Sampling Stations	15
3.3 Sources of Data Collection	17
3.4 Collection and Identification (Diversity) of Fishes	18
3.5 Study on Distribution Pattern and Frequency Occurrence	19
3.6 Analysis of Physical Parameters of Water	20
3.6.1 Water Colour	20
3.6.2 Water Velocity	20
3.6.3 Temperature	20
3.6.4 Transparency	20
3.6.5 Turbidity	21
3.7 Analysis of Chemical Parameters of Water	21
3.7.1 Hydrogen Ion Concentration (pH)	22
3.7.2 Dissolved Oxygen (DO)	22
3.7.3 Total Alkalinity	22
3.7.4 Total Hardness	23
4.7.5 Free Carbondioxide	23
3.8 Analysis of Biological Parameters	24
3.9 Statistical Analysis of Ichthyofauna	24
3.10 Fishing Appliances and Methods	25
3.11 Socioeconomic Condition of Fishermen	25
3.12 Some Hazards to Fish Life	25
<b>CHAPTER - IV: OBSERVATION / RESULT</b>	<b>26-61</b>
4.1 Fishery Resources of Tinau River	26

4.1.1	Species Diversity	26
4.1.2	Systematic Position of Ichthyofauna of Tinau River	30
4.1.3	Distributional Pattern and Frequency Occurrence	33
4.1.4	Abundance and Fish Species Composition	40
4.2	Fishing Appliances and Methods Used in Tinau River	43
4.2.1	Diversion of River Channel ('Duwalo Thunne')	44
4.2.2	Use of Poisons	44
4.2.3	Electro-Fishing	45
4.2.4	Fishing by Arrow ('Ban Hanne')	46
4.2.5	Nets ('Jal')	46
4.2.6	Fishing Rod ('Balchi- Hanne')	47
4.3	Socioeconomic Status of Fishermen	48
4.4	Major Hazards for Fish Life in Tinau River	50
4.4.1	Environmental Problem	50
4.4.2	Use of Destructive Fishing Methods	51
4.4.3	Lack of Awareness	52
4.4.4	Effect of Hydro-Dam	52
4.5	Water Quality Analysis of Tinau River	54
4.5.1	Physical Parameters	54
4.5.1.1	Water Temperature	54
4.5.1.2	Water Velocity	54
4.5.1.3	Transparency	54
4.5.2	Chemical Parameters	56
4.5.2.1	Hydrogen Ion Concentration (pH)	56
4.5.2.2	Dissolved Oxygen (DO)	56
4.5.2.3	Free Carbondioxide	56
4.5.2.4	Total Alkalinity	56
4.5.3	Analysis of Biological Parameters	57
4.5.3.1	Phytoplanktons	57

4.5.3.2 Zooplanktons	57
4.6 Major Ichthyofauna and Their Statistical Analysis	59
<b>CHAPTER -V: DISCUSSION</b>	<b>62-71</b>
5.1 Distribution of Fish Fauna in Tinau River	62
5.2 Effects of Physiochemical Parameters on Fishes	63
5.3 Socioeconomic Status of Fishercommunity in Tinau	71
5.1.3 Effect of Hydro-Dam	71
<b>CHAPTER- VI: SUMMARY</b>	<b>72-74</b>
<b>CHAPTER-VII: CONCLUSIONS AND RECOMMENDATIONS</b>	<b>75-77</b>
7.1 Conclusions	75
7.2 Recommendations	75
<b>BIBLIOGRAPHY</b>	<b>78-82</b>
<b>APPENDIX</b>	<b>83-85</b>

## **LIST OF TABLES**

Table 1	: Estimated Water Surface Area of Nepal	3
Table 2	: Area Coverage and Production from Aquaculture and Capture Fisheries in Nepal.	7
Table 3	: List of Fishes Collected from Tinau River	27
Table 4	: List of Fish Species Reported Early (Secondary Sources)	28
Table 5	: Major Groups of Fishes of Tinau River	29
Table 6	: Distribution Pattern, Abundance and Frequency Occurrence (%) of Different Species of Fishes in Tinau River	34
Table 7	: Seasonal Distributional Pattern of Fish-Species in Different Stations of Tinau River	36
Table 8	: Station-Wise Fish Composition (%) by Number of Species and Total Catch Number of Fishes in Tinau River	40
Table 9	: Order-Wise Fish Species Composition in Tinau River	41
Table 10	: Family-Wise Fish Species Composition in Tinau River	41
Table 11	: Fish Composition (%) by Total Catch in Different Families of Fishes in Tinau River	41
Table 12	: List of Plants Used as Fish Poisons	45
Table 13	: Water Quality Analysis of Tinau River	55
Table 14	: Occurrence and Distribution Pattern of Planktons in Tinau River	58
Table 15	: Fishery Resources and Physicochemical Parameters of Tinau River	60
Table 16	: Correlation Between Some Physicochemical Parameters and Fish Diversity of Tinau River	61

## LIST OF FIGURES

Figure 1 (a) :	Pie-Chart Showing Station-Wise Fish Composition (%) by Total Number of Fishes in Tinau River	39
Figure 1(b) :	Pie-Chart Showing Station Wise Fish Composition (%) by Number of Species in Tinau River	39
Figure 2 :	Pie- Chart Showing Order Wise Fish Species Composition in Tinau River	42
Figure 3 :	Pie-Chart Showing Family-Wise Fish Species Composition in Tinau River	42
Figure 4 :	Pie- Chart Showing Fish Composition (%) by Total Catch in Different Families of Fishes in Tinau River	43
Figure 5 :	Bar Diagram Showing Relationship Between Water Temperature and Fish Diversity	64
Figure 6 :	Bar Diagram Showing Relationship Between Water Velocity and Fish Diversity	65
Figure 7 :	Bar Diagram Showing Relationship Between Transparency of water and Fish Diversity	66
Figure 8 :	Bar Diagram Showing Relationship Between pH of Water and Fish Diversity	66
Figure 9 :	Bar Diagram Showing Relationship Between DO of Water and Fish Diversity	67
Figure 10 :	Bar Diagram Showing Relationship Between Free CO <sub>2</sub> and Fish Diversity	68
Figure 11 :	Bar Diagram Showing Relationship Between Total Alkalinity and Fish Diversity	69
Figure 12 :	Bar Diagram Showing Relationship Between Total Hardness and Fish Diversity.	69
Figure 13 :	Bar Diagram Showing Relationship Between Free CO <sub>2</sub> and Fish Diversity	70

## **LIST OF MAPS**

- Map 1 : River Systems of Nepal  
Map 2 : Tinau River System with the Location of the Study Area

## **LIST OF PHOTOGRAPHS**

- Plate 1 : Sampling Stations
- Plate 2 : Fish Diversity of Tinau River
- Plate 3 : Fishing Implements and Methods Used in Tinau River
- Plate 4 : Plant Poisons Used in Fishing in Tinau River

## LIST OF ABBREVIATIONS

APHA	– American Public Health Association
BPC	– Butwal Power Company
CBS	– Central Bureau of Statistics
CITES	– Convention on International Trade in Endangered of Wild Fauna and Flora Species
cm	– Centimeter
DoFD	– Directorate of Fisheries Development
DO	– Dissolved Oxygen
ft	– Feet
GDP	– Gross Domestic Product
ha	– Hector
IUCN	– International Union of Conservation of Nature
km	– Kilometer
m	– Meter
MENRIS	– Mountain Environment and Natural Resources Information Service
mg/lt	– Milligram Per Liter
ml	– Milliliter
mm	– Millimeter
NARC	– Nepal Agriculture Research Council
NEFIS	– Nepal Fisheries Society
NRDB	– Nepal Red Data Book
NAST	– Nepal Academy of Science and Technology
sps.	– Species
sq.km.	– Square Kilometer
VDC	– Village Development Committee
WECS	– Water and Energy Commission Secretariat
°C	– Degree Centigrade