

FISH DIVERSITY OF SHARADA RIVER IN SALYAN MID- WESTERN NEPAL



By

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RECOMMENDATIONS

This is to recommend that the thesis entitled "**Fish Diversity of Sharada River in Salyan Mid-western Nepal**" has been carried out by **Bijaya K.C.** for the partial fulfillment of Master's Degree of Science in Zoology with special paper Fish and Fisheries. 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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ABSTRACT

The present study “Fish diversity of Sharada River in Salyan mid-western Nepal” was conducted to understand the fish diversity of Sharada River, it is one of the main tributaries of Babei River, originated from mahabharat range of Salyan district. Altogether 15 species of fishes belonging to 3 orders, 4 families and 10 genera had been recorded. Status of fish species was analyzed on the basis of fish composition and fish distribution. The diversity of fish species was recorded highest in the station I and low in station II and III. The study revealed that majority of fish species belonged to the Families cyprinidae. The most dominant species of this river was *Garra gotyla* followed by *Barilius bendelensis*, *Puntius ticto*, *Puntius sophore*, *Schistura horai*, *Tor tor*. The highest and lowest frequency occurrences were recorded 15.6 and 2.8 of *Garra gotyla* and *Labeo pugnusia* respectively.

Both conventional and non-conventional fishing appliances were found to be used in Sharada River and its tributaries. Most of fishing appliances and methods used were found seasonal, only cast net and hook and line was noted to be used all throughout the year. Fish population in Sharada River was declining day by day due to various activities such as stone mining, construction of dam for irrigation channel, regular fishing as well as natural calamities etc. The socio-economic condition of fishermen of the Sharada River area was poor, illiterate and unemployed, however, interested to educate children for good future.

Key words: Fish diversity, Sharada River, 15 species *Garra gotyla*.

CONTENTS

| | Pages |
|--|----------|
| Declaration | I |
| Recommendations..... | II |
| Letter of Approval..... | III |
| Certificate of Acceptance | IV |
| Acknowledgement | V |
| Contents | VI- VIII |
| List of Tables | IX |
| List of Figures | X |
| List of Photoplates..... | XI |
| List of Appendices | XII |
| List of Abbreviations | XIII |
| Abstract..... | XIV |
| 1. INTRODUCTION..... | 1 |
| 1.1 General Background | 1 |
| 1.2 water resources..... | 1 |
| 1.2.1 Natural water resources..... | 1 |
| 1.3. Fish Resources..... | 2 |
| 1.4 Sharada River..... | 5 |
| 1.5 Justification of study | 5 |
| 1.6 limitation of the study | 6 |
| 1.7 Objectives..... | 6 |
| 2. LITERATURE REVIEW..... | 7 |
| 2.1 Historical events | 7 |
| 2.2 Historical studies on fish in Nepal by foreign export..... | 7 |
| 2.3 Fish studies in Nepal by local fisheries scientist..... | 8 |

| | |
|--|-----------|
| 3. MATERIALS AND METHO..... | 11 |
| 3.1 Study period..... | 11 |
| 3.2 Study Area..... | 11 |
| 3.3 Source of data collection..... | 13 |
| 3.4 Physio-chemical parameter..... | 13 |
| 3.5 Bottom substratum..... | 13 |
| 3.6 Collection and identification of fishes | 13 |
| 3.7 Statistical analysis..... | 14 |
| 3.8 Fishing appliance and method used in Sharada river | 14 |
| 3.9 Socio-economic condition of fisherman | 14 |
| 3.10 major hazards of fishery resources of Sharada river | 14 |
| 4. RESULTS..... | 15 |
| 4.1 Physical parameter | 15 |
| 4.1.1 Water color | 15 |
| 4.1.2 Water depth | 15 |
| 4.1.3 Water temperature..... | 15 |
| 4.1.4 Transparency..... | 15 |
| 4.1.5 Water velocity..... | 15 |
| 4.2 Chemical parameters | 16 |
| 4.2.1 Hydrogen ion concentration (pH)..... | 16 |
| 4.2.2 Dissolved oxygen (D.O)..... | 16 |
| 4.2.3 Free carbon dioxide (CO ₂)..... | 16 |
| 4.3 Nature of bottom..... | 19 |
| 4.4 Fish diversity in Sharada river..... | 21 |
| 4.4.1 Systematic position on the fishes..... | 21 |
| 4.4.2 Ecology and behaviors of some important fishes of Sharada river..... | 28 |
| 4.4.3 Fish distribution and Frequency occurrence in Sharada River | 31 |
| 4.4.4 Family wise fish composition in Sharada River | 32 |
| 4.5 Coefficient of correlation between different variables | 33 |
| 4.6 Fishing appliance and method used in sharada river | 34 |
| 4.7 Socioeconomic condition | 37 |

| | |
|---|-----------|
| 4.8 Major hazards of fishery resources of Sharada river | 38 |
| 4.8.1 Environmental problems..... | 38 |
| 4.8.2 Use of Destructive fishing method..... | 39 |
| 4.8.3 Lack of awareness | 39 |
| 5. DISCUSSION..... | 40 |
| 6. CONCLUSION..... | 43 |
| 7. RECOMMENDATIONS..... | 44 |
| 8. REFERENCES..... | 45 |
| 9. APPENDICES..... | 51 |

LIST OF TABLES

| Table No | Title of Table | Page No |
|------------|---|---------|
| Table No 1 | Estimated water surface area in Nepal..... | 2 |
| Table No 2 | Physio-chemical parameter of Sharada River Salyan..... | 17 |
| Table No 3 | Nature of bottom in different sampling station..... | 19 |
| Table No 4 | Fish species occurrence and diversity in Sharada River | 21 |
| Table No 5 | Distribution and frequency occurrences of fishes in Sharada River..... | 31 |
| Table No 6 | Family wise fish composition in Sharada River..... | 32 |
| Table No 7 | Correlation between physical parameter of water and fish Number in Sharada | 33 |

LIST OF FIGURES

| Figure No | Title of Figure | Page No |
|--------------|---|---------|
| Figure No 1 | Map of River system Nepal | 4 |
| Figure No 1 | Map of Nepal showing the location of Salyan District..... | 12 |
| Figure No 2 | Variation of water and air temperature..... | 17 |
| Figure No 3 | Variation of water depth at three stations..... | 17 |
| Figure No 4 | Variation of transparency at three stations..... | 18 |
| Figure No 5 | Variation of water velocity at three stations..... | 18 |
| Figure No 6 | Variation of ph value at three stations..... | 18 |
| Figure No 7 | Variation of dissolved oxygen at three stations..... | 18 |
| Figure No 8 | Variation of Free carbon dioxide at three stations..... | 18 |
| Figure No 8 | Substratum at station (I) | 20 |
| Figure No 9 | Substratum at station (II)..... | 20 |
| Figure No 10 | Substratum at station (III) | 20 |
| Figure No 11 | Frequency and distribution of fishes in Sharada River | 32 |
| Figure No 12 | Family wise fish species composition Sharada River | 32 |

LIST OF PHOTOPLATES

| Plate No | Title of photoplates | Page No |
|---------------|---|---------|
| Plate No. I | <i>Labeo dyocheilus, Tor tor, Barilius bendelisis,</i> <i>Neolissochilus hexagonolepis</i> | 24 |
| Plate No. II | <i>Garra annandali, puntius ticto Puntius sophore,</i> <i>Schitura savanna</i> | 25 |
| Plate No. III | <i>Schistura prasadali, Labeo pangusia, Mastacembelus</i> <i>armatus, Glyptothorax alakandi</i> | 26 |
| Plate No. IV | <i>Botia lohachata, Garra gotyla, Schistura horai</i> | 27 |
| Plate No. V | Smoking and dry fish, Collection of Fresh fish, Fishing with mosquito net, Dhadiya for fishing, Cast net, Fishing with hook..... | 49 |
| Plate No. VI | Using Mahalajal for fishing, Bridge of Sharada River, Irrigation cannels of Sharada River, water parameter analysis Taking interview of Fisherman, Fishing with Cast net..... | 50 |

LIST OF APPENDICES

| Appendix No | Title of Appendix | Page No |
|----------------|--|---------|
| Appendix No .1 | A list of questionnaires used in interview with fisherman Of Sharada river to Study diversity of fishes Socio-economic Condition of fisherman..... | 51 |

LIST OF ABBREVIATIONS

| | |
|----------------|-------------------------------------|
| DOFD | Department of Fisheries Development |
| FAO | Food & Agriculture Organization |
| GDP | Gross Domestic product |
| D.O | Dissolved oxygen |
| CDZ | Central development of Zoology |
| AAPA | Aquatic animals protect Acts |
| TU | Tribhuvan University |
| APHA | American public Health Association |
| MAX | Maximum |
| MIN | Minimum |
| Fig | Figure |
| VDC | Village Development Committee |
| ⁰ C | Centigrade |
| % | Percentage |