

**BIOACCUMULATION OF CADMIUM AND LEAD IN SELECTIVE TISSUES
OF ANURAN AMPHIBIAN**

DANNIELE CLARICE B. MARIANO

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TABLE OF CONTENTS

	PAGE
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF APPENDICES	ix
LIST OF APPENDIX TABLES	x
LIST OF APPENDIX FIGURES	xi
ABSTRACT	xii
INTRODUCTION	1
Background of the Study	1
Objectives of the Study	3
Significance of the Study	4
Scope and Limitation of the Study	5
Time and Place of the Study	5
REVIEW OF RELATED LITERATURE	6
Anuran Amphibian	6
Heavy Metals	7
Heavy Metals Accumulated by Frog	8
Morphological Abnormalities	9
Heavy Metals in Running Water and Soil	10
MATERIALS AND METHODS	14
Collection of Frogs, Water and Soil Sample	14
Collection Site	14
Field Survey Techniques	15
Frog Sample Collection	16
Water Sample Collection	16
Soil Sample Collection	16
Preparation of Frog Tissue Sample	16
Metal Analysis by Atomic Absorption Spectrometry	17
Data to be Gathered	17

RESULTS AND DISCUSSION	19
Description and Heavy Metal Analysis of Soil and Water	19
Collection and Identification of Most Dominant Species	21
External Morphological Abnormalities of <i>Rhinella marina</i>	23
Heavy Metal Analysis of Selected Tissues in <i>Rhinella marina</i>	25
SUMMARY, CONCLUSION AND RECOMMENDATION	30
Summary	30
Conclusion	30
Recommendation	31
LITERATURE CITED	32
APPENDICES	44

LIST OF TABLES

TABLE		PAGE
1	Water quality guidelines for secondary parameters- metals.	13
2	Cadmium and lead content of soil and water in different areas of the sugarcane field.	19
3	Number of collected <i>Rhinella marina</i> in different areas of the sugarcane field.	21
4	Description of observed morphological abnormalities in <i>Rhinella marina</i> .	24
5	Concentration of cadmium and lead in selected tissues of <i>Rhinella marina</i> collected from different areas of the sugarcane field.	27

LIST OF FIGURES

FIGURE		PAGE
1	Satellite View of Three Different Areas of the Sugarcane Field	14
2	Stript Transect	15
3	Collected <i>Rhinella marina</i> with (A) visible varying patterns and is red-brown in color, (B) warty skin with yellowish color and (C) warty skin with olive-brown color.	21
4	Observed external morphological abnormality in <i>Rhinella marina</i> ; (A) oligodactyly, (B) ectrodactyly, (C) secondary rotation, (D) micromelia, (E) secondary rotation and (F) brachydactyly and skin webbing.	24

LIST OF APPENDICES

APPENDIX		PAGE
A	Authentication of <i>Rhinella marina</i>	45
B	Certification of Analysis	46
C	Soil Present in the Sugarcane Field	49
D	Permissible Limit of Heavy Metals in Soil	50
E	Classification of Water	51
F	Common Amphibian Limb Abnormalities	52

LIST OF APPENDIX TABLES

APPENDIX TABLE		PAGE
1	WHO permissible limits of heavy metals in soil.	50
2	Common amphibian limb abnormalities (Lannoo, 2008).	52

LIST OF APPENDIX FIGURES

APPENDIX FIGURE		PAGE
1	Authentication of <i>Rhinella marina</i> .	45
2	Certification of Heavy Metal Analysis	46
3	Soil collected from different area: (A) hard clay collected from Area 1, (B) loam soil collected from Area 3 and (C) silty soil collected from Area 2.	49

ABSTRACT

MARIANO, DANNIELE CLARICE B., Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, **MAY, 2019 BIOACCUMULATION OF CADMIUM AND LEAD IN SELECTIVE TISSUES OF ANURAN AMPHIBIANS.**

Adviser: JAY G. MERCULIO, M.Sc.

Based on the results obtained, presence of cadmium and lead were observed in all the soil sampling areas. Higher amount was noted in lead as compared to cadmium. The amount of lead detected is highest in area 1 (with the highest altitude). Cadmium and lead were also observed in water samples collected in all sampling areas but is regarded as below the permissible limit.

Rhinella marina or commonly known as cane toad was noted be the dominant species. In the three different sampling areas where *R. marina* was collected, six individuals out of 371 have abnormalities affecting the forelimb and the hind limb. These are oligodactyly, ectrodactyly, secondary rotation, micromelia, ectromelia, brachydactyly and skin webbing.

Both cadmium and lead were found to be present in some tissues of *Rhinella marina*. Highest concentration of cadmium was observed in liver and reproductive system (0.3 mg/Kg). Lead content was observed highest in skin (0.4 mg/Kg) from Area 1.

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