

TABLE OF CONTENTS

Acknowledgment	iii
Abstract	iv
List of Figures	vi
List of Tables	vii
1 Introduction	2
Background of the Study	4
Statement of the Problem	4
Significance of the Study	5
Scope and Delimitation	5
Definition of Terms	5
2 Review of Related Literature	8
3 Methodology	12
Research Design	12
Sources of Data	12
Locale of the Study	12
Population/Sampling	12
Instrumentation and Data Collection	13
Protocol	13
Research Paradigm	14
4 Results and discussion	15
5 Summary, Conclusion, and Recommendations	26
Summary and Conclusion	26
Recommendations	26
A Summary of R Codes Used	31
B Full output for the decomposed Bagiyo rainfall time deries data	32
Biographical Sketch	37