



LIST OF CONTENTS

Title Page.....	i.
Approval page.....	ii.
Authenticity Statement.....	iii.
Preface.....	iv.
List of content.....	vi.
Table of figures.....	viii.
Abstract.....	x.
Abstrak.....	xi.
Chapter I: Introduction	
1. Background.....	1
2. Problem Formulation.....	3
3. Importance of Research.....	3
4. Objectives.....	3
Chapter II: Literature Review	
1. Classification of <i>Culex sp.</i> Mosquito.....	4
2. Life Cycle of <i>Culex sp.</i> Mosquito.....	5
3. Morphology of <i>Culex sp.</i> Mosquito	
3.1 Egg.....	6
3.2 Larvae.....	8
3.3 Pupae.....	10
3.4 Adult.....	11
4. Bionomics of <i>Culex sp.</i>	
4.1 Habitats of <i>Culex sp.</i>	13
4.2 Distribution and seasonal abundance.....	15
4.3 Host Preference.....	17
4.4 Biting habits and behavior.....	18



5. Medical Importance of <i>Culex sp.</i>	19
6. Surveillance of <i>Culex sp.</i>	21
Chapter III: Study Methodology	
1. Research Design.....	25
2. Location of Study.....	25
3. Subject of Research.....	25
4. Object of Research.....	25
5. Data Collection	
5.1 Preparation.....	25
5.2 Implementation.....	26
6. Tabulation and Data Analysis.....	26
Chapter IV: Result and Discussion	
1. Larvae survey and Identification of Mosquito Species.....	27
2. Type of Water Container That Become The Breeding Site of <i>Culex sp.</i> and Its Category.....	28
3. Population Density of <i>Culex sp.</i>	29
4. Research Limitation.....	29
Chapter V: Conclusion and Recommendation	
1. Conclusion.....	30
2. Recommendation.....	30
References.....	31
List of Appendix.....	37
Appendix	38



LIST OF FIGURES

Image 1. Eggs Raft of <i>Culex</i> . <i>sp.</i> (Institute for Clinical and Pathological Medical Research,2002)	7
Figure 2. Eggs comparison of mosquitoes genus (Stojanovich, 1961)	7
Image 3. Larvae of <i>Cx.quinquefasciatus</i> (Florida Medical Entomology Library, 2016)	8
Figure 4. Characteristics of <i>Culex</i> Larvae (Stojanovich, 1961).....	9
Image 5. Larvae of <i>Cx. quinquefasciatus</i> (Gathany, James, 2003)	9
Image 6. Pupa of <i>Cx.quinquefasciatus</i> (Florida Medical Entomology Library, 2016)	10
Image 7. Adult Male and Female <i>Culex sp.</i> (Kumar, 2017).....	11
Image 8. Adult Male and Female <i>Culex sp.</i> Head (Kumar, 2017)	11
Image 9. Adult <i>Cx. quinquefasciatus</i> (Florida Medical Entomology Library, 2016)	12
Image 10. Head. Proboscis, median pale ring (presence) absent <i>Culex quinquefasciatus</i> .(Stoffer,2016)	12
Figure 11. Mosquito Lateral Aspect of Thorax (Stojanovich, 1961)	13



Figure 12. Identification Key of <i>Culex</i> sp. (Belkins, 1968)	22
Figure 13. Pictorial to Genera of Larvae (Stojanovich, 1961)	23
Figure 14. Pictorial to Common Larvae in The US (Stojanovich, 1961)	24
Figure 15. Result of larvae survey in Selokan Mataram area, Mlati subdistrict, Sleman	27
Figure 16. Types of water container found in Selokan Mataram, Mlati subdistrict, Sleman	28
Figure 17. Population density of <i>Culex</i> sp. in Selokan Mataram, Mlati subdistrict, Sleman	29