



**ECTOPARASITES ON FREE-RANGE GRAZING GOATS
(*Capra aegagrus hircus*) IN GREENBREEZE SUBDIVISION,
BICLATAN, GENERAL TRIAS, CAVITE**

A Special Problem Presented to the
Biological Sciences Department
College of Science and Computer Studies
De La Salle University - Dasmariñas
City of Dasmariñas, Cavite

In Partial Fulfilment of the Requirements
for the degree Bachelor of Science in Medical Biology

SABRINA HANAKO M. ISHIKAWA

MARIA ZENAIDA B. LU

March 2014



ABSTRACT

Ectoparasites are prevalent in goats and cause poor productivity among them. This research aimed to detect and identify ectoparasites infesting the free-range grazing goats found in Greenbreeze Subdivision, Biclatan, General Trias, Cavite, and to determine the infestation rate, prevalence rate and parasite burden. Skin, nails, ears, and hair of the test animals were inspected and ectoparasites found were collected, preserved, identified and tallied. Among the ectoparasites classified were *Linognathus sp.*, and *Bovicola sp.* Of the two identified lice, *Linognathus sp.* has the higher infestation rate than *Bovicola sp.* Cumulative prevalence of ectoparasite resulted to 93%, infesting 28 of 30 goats. Double parasitism has higher prevalence rate than single parasitism. Lastly, ectoparasite burden is higher in *Linognathus sp.* than in *Bovicola sp.*





TABLE OF CONTENTS

| | |
|-------------------------------|----|
| Title Page | 1 |
| Abstract | 2 |
| Approval Sheet | 3 |
| Acknowledgments | 4 |
| Table of Contents | 5 |
| CHAPTER 1 INTRODUCTION | |
| 1.1 Background of the Study | 7 |
| 1.2 Objectives of the Study | 9 |
| 1.3 Scope and Limitations | 9 |
| 1.4 Significance of the Study | 10 |
| 1.5 Definition of Terms | 11 |
| CHAPTER 2 LITERATURE REVIEW | |
| 2.1 Conceptual Literature | 12 |
| 2.2 Related Studies | 17 |
| CHAPTER 3 METHODOLOGY | |
| 3.1 Research Design | 22 |
| 3.2 Research Setting | 22 |
| 3.3 Research Procedure | 23 |
| 3.4 Data Gathering | 24 |



CHAPTER 4 RESULTS AND DISCUSSION

| | | |
|-----|------------|----|
| 4.1 | Results | 26 |
| 4.2 | Discussion | 29 |

CHAPTER 5 CONCLUSION AND RECOMMENDATION

| | | |
|-----|----------------|----|
| 5.1 | Conclusion | 34 |
| 5.2 | Recommendation | 34 |

| | |
|------------|----|
| References | 36 |
|------------|----|

| | |
|------------|----|
| Appendices | 42 |
|------------|----|

| | | |
|----|--------------------|----|
| A. | Standard Procedure | 43 |
| B. | Photodocumentation | 44 |
| C. | Curriculum Vitae | 46 |

