

# **IMPACT ASSESSMENT OF POULTRY WASTAGE IN CAVITE**

Undergraduate Thesis  
Submitted to the Faculty of the  
Cavite State University  
Indang, Cavite

In partial fulfillment  
of the requirements for the degree of  
Bachelor of Science in Agricultural Engineering  
(Major in Soil and Water Management)



00002670

*Impact assessment of poultry wastage in  
Cavite*  
631.7 P35 2000  
T-2047

**EDMAR ROCELA PEJI**  
March 2000



## **ABSTRACT**

**PEJI, EDMAR ROCELA**, Cavite State University, Indang, Cavite, March 2000.  
**“IMPACT ASSESSMENT OF POULTRY WASTAGE IN CAVITE “**. Thesis  
Adviser: Dr. Marilyn M. Escobar.

The study was conducted to gather and establish baseline information regarding the estimated waste production, poultry population, types of waste produced, waste disposal system, waste disposal problems, process of collecting wastes, schedule of collecting wastes, gross annual income, area of wastes final disposal, and effect of poultry wastes to the disposal area. One hundred thirty two respondents were interviewed in the municipality of Cavite, namely, Amadeo, Alfonso, Dasmariñas, Gen. Aguinaldo, Indang, Imus, Magallanes, Maragondon, Mendez, Naic, Silang , Tagaytay, Tanza and Trece Martires City. from December 1999 to March 2000.

Respondent ranged from 20 to 75 years old with an average of 42 years. Seventy and 45 percent of the respondents reached tertiary education.

The result indicated that the poultry population in Cavite ranged from 100 to 75,000 heads. The total estimated manure produced in Cavite was 1,260,835 kg., while the total estimated waste water produced was 257,369 gallons. Majority of the respondents disposed the manure by selling it.

Based on the result of the study the total estimated average gross annual income from poultry production of the respondents was P 45,528,270.74 while the estimated average gross annual income from poultry manure was P 9,541.20. Majority of the respondents disposed their wastes in agricultural lands.



## TABLE OF CONTENTS

|   | PAGE |
|---|------|
| BIOGRAPHICAL SKETCH                         | iii  |
| ACKNOWLEDGEMENT                             | iv   |
| List of Tables                              | viii |
| List of Appendix Table                      | ix   |
| List of Appendix Figures                    | x    |
| ABSTRACT                                    | xi   |
| INTRODUCTION                                | 1    |
| Nature and Importance of the Study          | 2    |
| Objective of the Study                      | 3    |
| Time and Place of the study                 | 3    |
| Scope and Limitation of the study           | 3    |
| REVIEW OF RELATED LITERATURE                | 4    |
| Poultry Manure                              | 4    |
| Volume of Animal Waste                      | 4    |
| Chemical Composition of Poultry Manure      | 5    |
| Manure Storage and Handling                 | 6    |
| Waste Management Options for Poultry Manure | 9    |
| Pollution Control                           | 9    |
| MATERIALS AND METHODS                       | 11   |



|   |    |
|---|----|
| Methodology                                       | 11 |
| Data Gathered                                     | 12 |
| Statistical Analysis                              | 12 |
| RESULT AND DISCUSSION                             | 14 |
| Field evaluation Survey of Poultry Farm in Cavite | 14 |
| Demographic Profile of Respondents                | 15 |
| Waste Production Information                      | 19 |
| Waste Management Information                      | 23 |
| Economic Profile                                  | 25 |
| Environmental Effect                              | 26 |
| SUMMARY   | 28 |
| CONLUSSION  | 29 |
| RECOMMENDATION                                    | 30 |
| LITERATURE CITED                                  | 30 |
| APPPENDICES                                       | 31 |