THE EFFECT OF ACACIA LEAVES (*Samanea saman*) AS FEED SUPPLEMENT ON THE PERFORMANCE OF QUAILS

RESEARCH STUDY
APPLIED RESEARCH IV

LEONILO R. OLABE

Don Severino Agricultural College
Indang, Cavite
MARCH 1993

THE EFFECT OF ACACIA LEAVES (*Samanea saman*) AS FEED SUPPLEMENT ON THE PERFORMANCE OF QUAILS

A Research Study
Submitted to the Faculty of the
Laboratory School, School of Education
Don Severino Agricultural College
Indang, Cavite

In Partial Fulfillment
of the Requirements in
Applied Research IV

LEONILO R. OLABE

March 1993

ABSTRACT

OLABE, LEONILO RUPIDO, Applied Research IV (Agricultural Science Curriculum) Don Severino Agricultural College, Indang, Cavite. "The Effect of Acacia Leaves (Samanea saman) as Feed Supplement on the Performance of Quail".

Adviser: Prof. Erano C. Esguerra

This study was conducted in order to determine the effect of acacia leaves mixed with commercial chicken feeds on the performance of quail and to find out which among the different treatment ration is suited for quail as feeds.

After 4 months of experimentation, the results revealed that the use of commercial chicken feeds incorporated with 8% acacia leaves gave the best result in terms of egg production as compared to all other treatment. It shows highly significant differences in egg production efficiency and significant differences in final weight. It was found out also that the use of acacia leaves gave higher net income than pure commercial chicken feeds. Thus the use of acacia leaves at 8% level is highly recommended. No significant difference was observed in the other observations such as gain in weight, feed consumption and feed conversion efficiency.

TABLE OF CONTENT

	Page
BIOGRAPHICAL DATA	iii
ACKNOWLEDGMENT	iv
ABSTRACT	vi
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF PLATES	xi
LIST OF APPENDIX TABLES	xii
INTRODUCTION	1
Importance of the Study	1
Statement of the Problem	2
Objectives of the Study	3
Time and Place of the Study	3
REVIEW OF RELATED LITERATURE	4
MATERIALS AND METHODS	7
Materials	7
Methods	7
Collection and Preparation of Acacia Leaves	7
Division of Treatments	7
Housing the Flock	8
Feeds and Feeding	8
Care and Management	8
Data Collection	9

Page

Statistical Analysis 10
DISCUSSION OF RESULTS 11
Initial Weight 12
Gain in Weight 14
Final Weight 16
Feed Consumption 18
Feed Conversion Efficiency 20
Egg Production Efficiency. 22
Cost and Return Analysis 24
Other Observation. 25
SUMMARY, CONCLUSION AND RECOMMENDATION 26
Summary 26
Conclusion 27
Recommendation 28
LITERATURE CITED 29
APPENDICES 30
PLATES 43

LIST OF TABLES

Table		Page
1	Initial Weight per Eight Birds (gm) at their 21st Day of Age	11
1a	Analysis of Variance	12
2	Total Gain in Weight per Eight Birds (gm) from the Start Until the Termination of the Study	13
2a	Analysis of Variance	13
3	Final Weight per Eight Birds (gm) at the 16th Week of the Study	15
3a	Analysis of Variance	15
4	Average Weekly Feed Consumption per Eight Birds (gm) from the First Week Until the Termination of the Study	17
4a	Analysis of Variance	17
5	Feed Conversion Efficiency per Eight Birds from the Start Until the Termination of the Study	19
5a	Analysis of Variance	19
6	Weekly Egg Production Efficiency per Eight Birds from the 47th Day Until the Termination of the Study	21
6a	Analysis of Variance	21
7	Cost and Return Analysis per Bird Feed With Different Levels of Acacia Leaves (Pesos)	24

LIST OF FIGURES

Figure		Page
1	Average Weekly Egg Production	23

LIST OF PLATES

Plate		Page
1	General View of the Experiment	44
2	Birds Use in the Study at the 45th Day . .	45
3	Comparison Between Dried and Milled Acacia Leaves	46
4	Comparison of Different Treatment Ration Ready for Supplementation	47
5	Egg Samples Gathered from Different Treatments	48

LIST OF APPENDIX TABLE

Appendix Table		Page
1	Initial Weight per Eight Birds (gm) at their 21st Day of Age	31
1a	Analysis of Variance	31
2	Total Gain in Weight per Eight Birds (gm) From the Start Until the Termination of the Study	32
2a	Analysis of Variance	32
3	Final Weight per Eight Birds (gm) at the 16th Week of the Study.	33
3a	Analysis of Variance	33
4	Average Weekly Feed Consumption per Eight Birds (gm) from the First Week until the Termination of the Study	34
4a	Analysis of Variance	34
5	Feed Conversion Efficiency per Birds from the Start Until the Termination of the Study	35
5a	Analysis of Variance	35
6	Weekly Egg Production Efficiency per Eight Birds from 47th Day Until the Termination of the Study . .	36
6a	Analysis of Variance	36
7	Cost and Return Analysis (Treatment 1)	37
8	Cost and Return Analysis (Treatment 2)	38

Appendix Table		Page
9	Cost and Return Analysis (Treatment 3)	39
10	Cost and Return Analysis (Treatment 4)	40
11	Cost and Return Analysis (Treatment 5)	41
12	Cost and Return Analysis (Treatment 6)	42

EFFECT OF ACACIA LEAVES (*Samanea saman*) AS FEED SUPPLEMENT ON THE PERFORMANCE OF QUAIL[1]

by

LEONILO R. OLABE

[1/] A Research Study submitted to the Faculty of the School of Education of the Don Severino Agricultural College, Indang, Cavite in partial fulfillment of the requirement for Applied Research IV. Prepared under the supervision of Prof. Erano C. Esguerra, Adviser.

Chapter I

INTRODUCTION

Importance of the Study

Quail (*Coturnix coturnix*) locally known as "pugo" is classified as game or hunting bird and belongs to the family Phasianidae. Quails are almost temperate which live in tropical region and is resistant to diseases as compared to broilers.

Quail raising seems to be the easiest and popular industry in our country. Its growth is reflected in the increasing number in the consumption of eggs and the number