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**EFFECT OF DIFFERENT LEVELS OF IPIL-IPIL
LEAVES AND NAPIER GRASS ON
FATTENING GOATS**

THESIS

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**Don Severino Agricultural College
Indang, Cavite
March, 1984**

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LEAVES AND NAPIER GRASS ON
FATTENING GOATS

A Thesis

Submitted to the Faculty of the
Don Severino Agricultural College
Indang, Cavite

In Partial Fulfillment of
the Requirements for the Degree of
Bachelor of Science in Agriculture
Major in Animal Husbandry

by

Geronimo L. Lopez

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A B S T R A C T

Six upgraded goats were used in this study to determine which level of ipil-ipil leaves and napier grass combined with concentrate will give the maximum positive effect to the growth of goats. The goats ~~were grouped~~ into three, which served as three treatments. Each Treatment was replicated twice with one goat in each replicate. Goats in Treatment I were given 75% ipil-ipil leaves and 25% napier grass. A mixture of 50% ipil-ipil leaves and 50% napier grass was fed to goats in Treatment II, while goats in Treatment III were given 25% ipil-ipil leaves and 75% napier grass. Concentrate was supplemented at the rate of 0.50 kg per goat per day in all Treatments.

Average gain in weight of goats was highest in Treatment III having 7629.44grams followed by the goats in Treatment II with 4670 grams and goats in Treatment I with 3780 grams.

The average dry matter intake was highest in Treatment II having 62785.8 grams, compared to the goats in Treatment I with 59314.08 grams and goats in Treatment III with 58594.10 grams.

At the end of the study, goats in Treatment III had the best feed efficiency with 7.68 grams followed by the goats in Treatments I and II with 12.70 and 16.61 grams, respectively.

Insignificant differences were observed in the average gain in weight of goats from second to twelfth week although significant at the fourteenth and sixteenth week. Likewise, no significant difference was observed on the feed efficiency of goats from the second up to the sixteenth week although significant at the fourteenth week. On the other hand, however, significant differences were observed in the average dry matter intake of goats throughout the duration of the experiment except on the tenth week, which was found to be insignificant.

TABLE OF CONTENTS

	Page
BIOGRAPHICAL DATA.	iv
ACKNOWLEDGEMENT	v
ABSTRACT.	vi
LIST OF TABLES.	viii
LIST OF FIGURES	xii
INTRODUCTION	1
Objective of the Study	2
Time and Place of the Study	2
REVIEW OF RELATED LITERATURE	4
METHODOLOGY	6
DISCUSSION OF RESULTS	11
Body Weight.	11
Dry Matter Intake.	21
Feed Efficiency	33
SUMMARY, CONCLUSION AND RECOMMENDATION	43
BIBLIOGRAPHY	45
APPENDICES	46

LIST OF TABLES

Table	Page
1. Composition of Test Ration Used in the Experiment	7
2. Average Initial Weight of Goats.	11
3. Average Daily Gain in Weight of Goats at Second Week of the Study	12
3a. Analysis of Variance of Average Daily Gain in Weight of Goats at Second Week of the Study	12
4. Average Daily Gain in Weight of Goats at Fourth Week of the Study	13
4a. Analysis Variance of Average Daily Gain in Weight of Goats at Fourth Week of the Study .	13
5. Average Daily Gain in Weight of Goats at Sixth Week of the Study.	14
5a. Analysis of Variance of Average Daily Gain in Weight of Goats at Sixth Week of the Study	14
6. Average Daily Gain in Weight of Goats at Eighth Week of the Study	15
6a. Analysis of Variance of Average Daily Gain in Weight of Goats at Eighth Week of the Study .	15
7. Average Daily Gain in Weight of Goats at Tenth Week of the Study.	16
7a. Analysis of Variance of Average Daily Gain in Weight of Goats at Tenth Week of the Study .	16
8. Average Daily Gain in Weight of Goats at Twelfth Week of the Study	17
8a. Analysis of Variance of Average Daily Gain in Weight of Goats at Twelfth Week of the Study.	17
9. Average Daily Gain in Weight of Goats at Fourteenth Week of the Study	18
9a. Analysis of Variance of Average Daily Gain in Weight of Goats at Fourteenth Week of the Study	18
10. Average Daily Gain in Weighth of Goats at Sixteenth Week of the Study	19

	Page
10a. Analysis of Variance of Average Daily Gain in Weight of Goats at Sixteenth Week of the Study	19
11. Average Daily Dry Matter Intake of Goats at Second Week of the Study	24
11a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Second Week of the Study. .	24
12. Average Daily Dry Matter Intake of Goats at Fourth Week of the Study	25
12a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Fourth Week of the Study. .	25
13. Average Daily Dry Matter Intake of Goats at Sixth Week of the Study	26
13a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Sixth Week of the Study . .	26
14. Average Daily Dry Matter Intake of Goats at Eighth Week of the Study	27
14a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Eighth Week of the Study. .	27
15. Average Daily Dry Matter Intake of Goats at Tenth Week of the Study	28
15a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Tenth Week of the Study . .	28
16. Average Daily Dry Matter Intake of Goats at Twelfth Week of the Study	29
16a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Twelfth Week of the Study .	29
17. Average Daily Dry Matter Intake of Goats at Fourteenth Week of the Study.	30
17a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Fourteenth Week of the Study	30
18. Average Daily Dry Matter Intake of Goats at Sixteenth Week of the Study	31
18a. Analysis of Variance of Average Daily Dry Matter Intake of Goats at Sixteenth Week of the Study	31

	Page
19. Feed Efficiency of Goats at Second Week of the Study	34
19a. Analysis of Variance of Feed Efficiency of Goats at Second Week of the Study. . . .	34
20. Feed Efficiency of Goats at Fourth Week of the Study	35
20a. Analysis of Variance of Feed Efficiency of Goats at Fourth Week of the Study	35
21. Feed Efficiency of Goats at Sixth Week of the Study	36
21a. Analysis of Variance of Feed Efficiency of Goats at Sixth Week of the Study	36
22. Feed Efficiency of Goats at Eighth Week of the Study	37
22a. Analysis of Variance of Feed Efficiency of Goats at Eighth Week of the Study. . . .	37
23. Feed Efficiency of Goats at Tenth Week of the Study	38
23a. Analysis of Variance of Feed Efficiency of Goats at Tenth Week of the Study	38
24. Feed Efficiency of Goats at Twelfth Week of the Study	39
24a. Analysis of Variance of Feed Efficiency of Goats at Twelfth Week of the Study	39
25. Feed Efficiency of Goats at Fourteenth Week of the Study	40
25a. Analysis of Variance of Feed Efficiency of Goats at Fourteenth Week of the Study . .	40
26. Feed Efficiency of Goats at Sixteenth Week of the Study.	41
26a. Analysis of Variance of Feed Efficiency of Goats at Sixteenth Week of the Study. . .	41
27. Calculated Chemical Composition of Test Rations.	46

LIST OF FIGURES

Figure	Page
1. Graph Showing the Growth Rate of Upgraded Goats Fed with Different Rations.	52
2. Graph Showing Dry Matter Intake of Upgraded Goats Fed with Different Rations.	53
3. Graph Showing the Feed Efficiency of Upgraded Goats Fed with Different Rations.	54

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INTRODUCTION

Roughages are feeds high in fiber but relatively low in total digestible nutrients. Its importance as main ingredients in ruminant ration is due to the capability of the ruminants to utilize cellulose and other less digestible carbohydrates which monogastric animals cannot. Cellulose that are present in the cell wall of roughages were fermented in the rumen by microorganisms, thus producing available proteins that the host animals needed. Through absorption and metabolism of these proteins and other products of digestion, the host animal survive and grow. Through that process ~~cheap~~ and otherwise useless products were converted into valuable human food. Among these common farm products are ipil-ipil and napier grass.

Ipil-ipil (Leucaena leucocephala) is a leguminous perennial shrub commonly grown in all parts of the Philippines. While ipil-ipil leaf meal is being used extensively on concentrate formulation for swine and poultry in our country, its use as