



Performance of Weaned Rabbit Bucks Fed Graded Levels of African Yam bean in Cassava Peel Meal -Based Diets

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Introduction

The high cost of conventional feed ingredients has reduced the affordability of animal products. This has led to research into the use of alternative feed resources including Cassava (Manihot esculenta Crantz) and African yam bean (Sphenostylis stenocarpa Harms).

Objective

This study evaluated the effect of cassava peel meal supplemented with graded levels of African yam bean on the performance of weaned rabbit bucks.

Materials & Methods

Location of study: Rabbitry unit of the Federal College of Animal Health and Production Technology, Moor Plantation, IAR&T, Ibadan, Nigeria.

Experimental materials: Cassava peel meal (CPM) and African yam bean (AYB).

40. crossbred 5-6 week old bucks

Four treatments: 0, 10, 20 or 30% AYM were

supplemented into 25% CPM.

Study period: 12weeks (84 days)...

Parameter measured: Growth, blood profile and

economics of production.

Data Analysis: One-way ANOVA in CRD





Results

Table 1. Growth performance

Parameters	0%AYB T ₁	10%AYB T ₂	20%AYB T ₃	30%AYB T ₄	SEM
Initial weight (g)	635.30	635.00	634.00	635.00	15.43
Final weight (g)	1361.40a	1391.20a	1379.70a	1276.40b	32.42
Total weight Gain (g)	726.10b	756.20a	744.40a	641.40c	30.52
Ave. wkly wt. gain(g)	60.51a	63.02a	62.06a	53.45b	4.36
Total Feed intake(g)	3050.20	2923.70	2933.16	2918.50	50.61
Ave. wkly feed intake (g)	254.18	243.64	244.43	243.21	4.21
Feed Conversion Ratio	4.20a	3.87b	3.84b	4.55a	0.17
Mortality (%)	10	10	0	20	

Table 2. Economics of production

PARAMETERS	0% AYB T ₁	10 %AYB T ₂	20% AYB T ₃	30% AYB T ₄	SEM
Cost per 100 Kg diet (₦)	6,564.50 a	6,132.00 b	5,255.50	4,450.50	110.8
			b	С	3
Cost per kg diet (₦)	65.65ª	61.32a	52.56b	44.51 ^c	1.11
Total Feed consumed/rabbit (kg)	2.93	2.82	2.93	2.33	0.12
Total Cost of Feed/ rabbit (N)	192.35ª	172.92ª	154.00b	103.70 ^c	2.02
Feed Conversion Ratio Feed Cost/kg weight gain (N)	4.20ª 275.73ª	3.87 ^b 237.31 ^b	3.84b	4.55 ^a	0.17
			201.83°	202.52 ^c	4.32

Conclusion

Up to 20% AYB meal maintains the growth performance, carcass characteristics and cost of rabbit production.

