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SUMMARY

This study was designed to examine the effect of replacing groundnut cake (GNC) in the diet of broilers with graded levels of cooked Flamboyant seed meal (CFSM) as a protein source. The experimental diets were designated at T₁, T₂, T₃ and T₄ representing 0%, 10%, 15% and 20% level of inclusion of CFSM respectively. One hundred and twenty day-old Hubbard broiler chicks were used for the experiment. The chicks were divided into four treatment groups each with three replicates. Parameters measured include body weight, body weight gain, feed intake, feed conversion ratio (FCR) and nutrient digestibility. Results showed no significant (p>0.05) difference across the treatments at the starter phase for all the parameters evaluated except for feed intake, body weight and nutrient digestibility. At the finisher phase, there were significant (p<0.05) differences observed in feed consumption, body weight gain, feed efficiency and nutrient digestibility coefficients among the treatments. It was concluded that broilers can tolerate CFSM up to 20% level of inclusion without any adverse effect on their performance.

INTRODUCTION

The high cost of animal feedstuff particularly protein tends to suggest that alternative plant protein sources Le sought for poultry feed. The conventional protein feedstuffs are continuously been competed for by man in attempt to meet up their protein requirements, thus have influenced extraneous increases in cost of the conventional plant protein sources particularly and Soyabean. Due to the high cost of feeding ingredients, it was recently observed that commercial feed operators have compromised on standards (Kudu et al., 2008) such that, the composition labels on branded bags does not truly reflect the actual nutrient composition of the feed. Where such feed was used in Cockerels, performance in terms of growth rate was reduced (Kudu, et al., 2008). To meet the plant protein demand of livestock, nutritionists are seeking plant protein alternatives (usually referred to as non-conventional feedstuff) in order to ameliorate the high cost of feeding. Some of the recently conducted researches revealed that Pigeon pea (Karsin et al., 2008), Afzelia Africana (Obun and Ayanwale, 2008), Flamboyant seeds (Egena et al., 2007; Shiawoya et al., 2008), Taro Cocoyam (Edache et al., 2008), bitter Kola (Asiegwu et al., 2008), Bambara groundnut (Omoikhoje et al., 2008) and a host of others have been successfully used as a protein source in livestock nutrition particularly monogatrics.

Flamboyant seed have been shown to be a good source of protein particularly when processed (Egena et al., 2007; Shiawoya et al., 2008). Processing tends to impact or improve the nutritional values of protein seeds with particular reference to crude protein and anti-nutritional factors (trypsin inhibitor, tannin, phytic acid) which often limits the use of most legume seeds. The purpose of this research is to investigate the effect of cooking Flamboyant seed on the performance of broilers.

MATERIALS AND METHODS

The study was conducted in the poultry unit of the Department of Animal Production, Federal University of Technology, Minna, Niger State between July and August, 2008. Maize bran, maize grain, fish meal, salt, premix, bone meal, limestone, GNC, methionine and lysine were obtained within Minna. The test ingredient (Flamboyant seeds) was sourced from within Minna and its environment. The seeds were sun-dried, and boiled at temperature of 105-110°C until the seeds became soft. The boiled seeds were sun-dried and milled using a hammer milled and stored until needed as cooked Flamboyant seed meal (CFSM). The meal was used to formulate four experimental diets (Table 1). One hundred and twenty day-old Hubbard broiler birds were randomly allotted to four treatments each with three replicates of 10 birds in a completely randomized design. Warmth was provided using 200 watt electric bulbs. Feed and water was supplied ad libitum throughout the trial. Other routine management practices were observed and vaccine administered as of when due. A digestibility trial was carried out to assess the metabolic response of the birds to the experimental diets. Feed and faces were analyzed using the method of AOAC (1990). A modified method of AOAC (1984) was used to analyze for tannin and trypsin inhibitor, while phytic acid level was analyzed using the method of Latta and Eskin (1984). All data collected were subjected to analysis of variance according to Snedecor and Cochran (1980) and means separated using Duncan multiple range test as outlined by Steel and Torrie (1980).

RESULTS AND DISCUSSION

The proximate composition of the test ingredient 15 shown in Table 2. it revealed that through cookingthe entire nutrients contained in uncooked Flamboyant seed (UCFSM) were increased particularly crude protein (CP), dry matter (DM),

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tible (CF), ether extract (FE) and ash. flowevers reduction in Nitrogen free extract (NFE) moisture content was observed followings cooking. Egena et al. (2007)and Shiawoya et al. (2008) both reported similar increase in CP, CF and When Flamboyant seeds were roasted and anaerobically fermented followed by lyle treatment. therefore the relative increase observed in the said parameters is reflective of the influence of cooking on the test ingredient. The observed increase in EE reflects the fact that cooking has a positive effect on the crude fat of the seed. This is in agreement with Okigbo (1975).

Table 3 shows the effect of cooking on antinutritional factors. Trypsin inhibitor and tannin were greatly reduced as much as by 66,30 and 66.55% respectively. Egena et al. (2007) noted in anti-nutritional factors reduction Flamboyant seeds were anaerobically fermented and lyle treated. Similar observation was reported by Shiawoya et al. (2008) when Flamboyant seeds twere roasted. Karsin et al. (2008), noted that the cooking improves the nutritional value of Pigeon pea. Table 4 shows the performance of broilers fed graded levels of cooked Flamboyant seed meal. At the starter phase, significant difference (p<0.05) was observed in body weight and feed intake. The body weight of the birds fed UCFSM was observed to be lower than those fed the test ingredient. Birds fed T. (10% CFSM) had the least body weight amongst those fed the test ingredient. At the finisher phase, body weight, body weight gain, feed intake and feed conversion ratio were all significantly (p<0.05) affected. Feed intake decreased progressively as the inclusion level of CFSM increased in the diet. This is at variance, with the report of Egena et al. (2007) and Shiawoya et al. (2008) who all observed remarkable increase in feed intake with increasing level of Flamboyant seed meal inclusion in the diet. Although birds fed the control diet had higher consumption, this did not translate to the final body weight as birds fed the test ingredient had better (p<0.05) final body weight. Obun and Ayanwale (2008), Egena et al. (2007) and Karsin et al. (2008) reported that processing of legumes tend to have a positive influence on broilers.

Table 5 shows the nutrient digestibility by broilers fed graded levels of CFSM. Most of the nutrients seem to be well digested at both phases of the experiment. Age seem not to have affected the birds ability to digest nutrients at the starter phase as reported in roasted Flamboyant seed meal (Shiawoya et al., 2008) or at the finisher phase for that matter. Cooking therefore did not hamper the bird's ability to digest nutrients in the seed meal. This might be linked to the reduced level of antinutrients in the cooked Flamboyant seed meal (Table 3).

CONCLUSION

From the findings of this study, it can be concluded that, broilers can tolerate CFSM as a substitute to C up to 20% level of inclusion without any deleterious effect.

ACKNOWLEDGEMENT

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Table 1:composition of experimental diets

Ingredient	on On In	Starter ph	ase)	20 1	rigilla Syth	Finisher p	hase	Tana
Aphabati Chamair	Tichila	T2 in	ulTj.	A Ta	In or Ti nium I	67.70	57.79	57.79
Maize	56.17	56.17	56.17	56.17	57.79	57.79	22.07	20.17
GNC Evient to be	32.82	29.54	27.9	26.26	25.96	2.59	3.89	5.19
CFSM	0.00	3.28	4.92	6.56	0.00	4.50	4.00	4.00
Fish meal	2.50	4.00	3.00	3.00	5.00	7.46	6.85	6.85
Maize bran	5.00	2.50	2.50	1.50	7.85	1.00	1.00	1.00
Bone meal	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CaCo3	1.00	1.00	1.00	1.00	1.00	T. HISTILY I.	3.00	3.00
Red oil	1.00	2.00	3.00	4.00	1.00	0.10	0.10	0.10
Salt Light marking	0.10	0.10	0.10	0.10	0.10		0.10	0.10
Lysine Lysine	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Methionine	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20
Premix	0.20	0.20	0.20	0.20	0.20	0.20	And the Control of	100.00
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	20.00
CP%	22.00	22.00	22.00	22.00	20.00	20.00	20.00	
Energy(Kcal/Kg)	3016.00	3006.00	3017.00	3036.00	2935.99	2921.73	2904.11	2903.79

Table 2: Proximate composition of the test ingredient (%)

Parameter	UFSM	CFSM
DM	87.80	94.00
Moisture	12.20	6.00
CP	18.10	25.00
CF 1	7.50	12.50
EE DIL A 38 D	05.3 . C7.50 on A	2 / 10.05
Ash On Mersins	3.60	6.00
NFE	51.10	40.45

Table 3: Effect of cooking on anti-nutrients of Flamboyant

seed	C. C. LILLIANS L. L. C.	22/24/	And the part of the part of the part of the	-
Parameters	UFSM	CFSM	% reduction	(
Phytate (mg/100g)	`2.13	1.01	52.58	
Tannin (g/kg)	93.10	33.00	66.55	
Trypsin inhibitor (Tui/mg)	273.00	92.00	66.30	
Saponin (%)	12.23	6.31	48.01	
The state of the s			and the second second	

Table 4: Performa	nee or ore	mers red (FSM	KARAMATAN AND AND AND AND AND AND AND AND AND A	A CONTRACTOR		Application of the state of the
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a weight (g)		406.50*	408 00°	422.00b	431.00°	10.15*	
weight gain (g w	eck) 1 11 A	131.57 A	30/11//	131.00	30.43	0.42ns	artine their wars of the
Feed intake (g)	riculture, l	3226.66 ^d	3160.00°	3081.67	3108.33	55.33*	ALAN MARKET
		14.66	" 14.7" hi	14:34	14.53		many factories for
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Finisher phase	1 1010 522	1523.18*	1640 594	11550 50	1672.50°	menorable of baraut	An expressment was con-
Body weight	Section 1	56.25			69.394		asias unu sananci unu kataon Manancia and astenganis Minom
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EE golden tuot but	95.04°	93.99 ^b		THE CL	.51 • Domothon		iosts and one of the m
Ash for farmer	79.88°	78.41	\$ \$55.544 \$ 5.5 KM - Ch. (5.1)	1 10	2 million 2.		mall numinants with a
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drys Potable MO	967.64	97.90d		J. A.	Charles of Mills	record became his	anizum aized Jotina
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CF Land Set 17	94.50°	87.59ª	92.41 ^b 9	2.18 ^b 0	.95	cedstuffs which	ian non-conventional
poor on gun	97.34°	96,77 ^b		6.01 0			nd appeara high duma
and the state of t		84.24		0.020	livestoci*70.	ing exploited for	002) are presently be
Ash Isminis does	84.09	01 635	The state of the s		141.75280	duction in Nigeria	nd indeed for gost pro-
be means denoted b	91.77	inerscript ale	ong the same r	ow are sign	ificantly differ	ent (p<0.05)	of has a light prof Yousuf et al 2007) wit
CONTRACT SEASON AND ADMINISTRATION OF THE PARTY AND ADMINISTRA	17. 7 F T QUEEN LVC 19	0.1 t (0.00 t F1 F1 F1) 2 ()	DATE OF THE PARTY		ine crude or	Raviodean 1993	rotein as tree protein
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The said to the Unit	All and market the	STOP STOP	EL ISTI PROTE	1 100 111	or driw basi	largely undersuli	rocessing industry. It is
					metrico.	Mint SE tunds It	a annual production o
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arm carcass in iler. A dressed	fore slaugh	weight be	VEOR OF HOLD	ew)	ance and	molied atwars 5	esigned to avaluate th
iter. A dressed	d as the	is define	to heal pier	nine	n Dwarf	of West Africa	urass characteristics
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