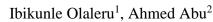
Reproductive Performance of Rabbits Fed Diets Containing Varying Dietary Levels of two Varieties of Composite Sweet Potato Meal in A Palm Kernel Based Diet



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Introduction:

➤ Rabbit breeders increasingly are incorporating non-conventional feedstuffs, particularly to improve the energy and feed intake which is a limiting factor to achieve a balance of energy during lactation.

Objective:

To access the dietary effects of varying levels of two varieties CSPM on the reproductive performance of rabbits.

Material and methods:

- > Two varieties of sweet potato root, leaf and vines were collected from National root crops research Institute, Umudike, Nigeria and processed.
- Seven-months old doe (n=25) were allocated to one of five dietary treatments (n=5 per treatments) containing CSPM of the two varieties.

Table 1. Experimental Layout

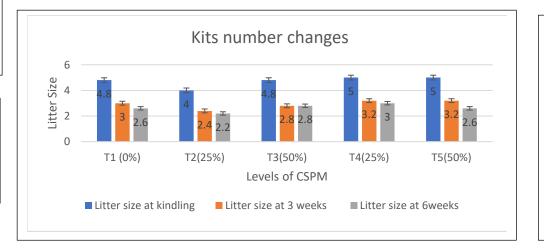
Control Diet	CIP440293		TIS 87/0087	
0	25 %	50%	25 %	50%

Results: The findings showed that the two varieties of CSPM at up to 50% replacement for maize has no negative effect on all reproductive performance of does except the survivability of the litters.

Table 2. The reproductive performance of rabbits fed diets containing varying levels of composite sweet potato meal

	Levels	of orange	Levels of v	white flesh				
	fleshCSPM(CIP440293)		CSPM(TIS 87/0087)					
T1 (0%)	T2(25%)	T3(50%)	T4(25%)	T5(50%)	SEM	PValue		
103.45	97.95	99.65	103.20	103.75	1.18	0.28		
31.40	31.80	32.00	32.40	31.80	0.16	0.78		
35.31	32.47	33.26	29.44	34.53	1.02	0.79		
4.80	4.00	4.80	5.00	5.00	0.19	0.94		
3.00	2.40	2.80	3.20	3.20	0.15	0.69		
2.60	2.20	2.80	3.00	2.60	0.13	0.70		
70.24	45.90	63.57	61.24	52.00	4.31	0.48		
264.03	204.13	252.13	251.45	246.57	10.29	0.47		
569.94	440.1	553.00	552.82	527.97	23.16	0.41		
2.13	1.78	1.27	1.62	2.36	0.19	0.49		
2.14	2.12	2.12	2.12	2.11	0.004	0.60		
	103.45 31.40 35.31 4.80 3.00 2.60 70.24 264.03 569.94 2.13 2.14	fleshCSPM T1 (0%) T2(25%) 103.45 97.95 31.40 31.80 35.31 32.47 4.80 4.00 3.00 2.40 2.60 2.20 70.24 45.90 264.03 204.13 569.94 440.1 2.13 1.78 2.14 2.12	fleshCSPM(CIP440293) T1 (0%) T2(25%) T3(50%) 103.45 97.95 99.65 31.40 31.80 32.00 35.31 32.47 33.26 4.80 4.00 4.80 3.00 2.40 2.80 2.60 2.20 2.80 70.24 45.90 63.57 264.03 204.13 252.13 569.94 440.1 553.00 2.13 1.78 1.27	T1 (0%) FleshCSPM(CIP440293) CSPM(TIS) T1 (0%) T2(25%) T3(50%) T4(25%) 103.45 97.95 99.65 103.20 31.40 31.80 32.00 32.40 35.31 32.47 33.26 29.44 4.80 4.00 4.80 5.00 3.00 2.40 2.80 3.20 2.60 2.20 2.80 3.00 70.24 45.90 63.57 61.24 264.03 204.13 252.13 251.45 569.94 440.1 553.00 552.82 2.13 1.78 1.27 1.62 2.14 2.12 2.12 2.12	T1 (0%) FleshCSPM(CIP440293) CSPM(TIS 87/0087) T1 (0%) T2(25%) T3(50%) T4(25%) T5(50%) 103.45 97.95 99.65 103.20 103.75 31.40 31.80 32.00 32.40 31.80 35.31 32.47 33.26 29.44 34.53 4.80 4.00 4.80 5.00 5.00 3.00 2.40 2.80 3.20 3.20 2.60 2.20 2.80 3.00 2.60 70.24 45.90 63.57 61.24 52.00 264.03 204.13 252.13 251.45 246.57 569.94 440.1 553.00 552.82 527.97 2.13 1.78 1.27 1.62 2.36 2.14 2.12 2.12 2.11	fleshCSPM(CIP440293) CSPM(TIS 87/0087) T1 (0%) T2(25%) T3(50%) T4(25%) T5(50%) SEM 103.45 97.95 99.65 103.20 103.75 1.18 31.40 31.80 32.00 32.40 31.80 0.16 35.31 32.47 33.26 29.44 34.53 1.02 4.80 4.00 4.80 5.00 5.00 0.19 3.00 2.40 2.80 3.20 3.20 0.15 2.60 2.20 2.80 3.00 2.60 0.13 70.24 45.90 63.57 61.24 52.00 4.31 264.03 204.13 252.13 251.45 246.57 10.29 569.94 440.1 553.00 552.82 527.97 23.16 2.13 1.78 1.27 1.62 2.36 0.19 2.14 2.12 2.12 2.11 0.004		

a,b,cMeans with different superscripts on the same row are significantly different (P<0.05)



Conclusion: The comparable reproductive performance of dietary levels of CSPM from the selected varieties indicate the potential of the CSPM as a feed ingredient. CSPM can be incorporated in the diets of breeding rabbits up to 50 % for comparable level reproductive performance.