AND SHARE STREET, THEN EXCENSE WAY AND THE BINGS DATE PROPERTIES IN CASE AND O'THERMEN PROXIMATE COMPOSITION OF COMPLEMENTARY FOODS PREPARED FROM MALTED WHEAT AND SOYABEAN FLOUR BLENDS

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Introduction
Complementary foods are semi-solid or solid foods that are introduced to the diet of a bry complements foods of developing Countries are best diet. The traditional homen Sometimentary foods of developing Countries are based on starchy staples usually constructional problems and maize. The mutritional problems schas sorghum and maize. The nutritional problems associated with the use of these states in somplementary food propagations includes him to be a second to solutions and micronutrient contents (I). A good quality complementary diet must high nutrient density, low bulk density, viscosity and appropriate texture [6] Se agree the legally product to improve the nutritional quality of complementary for pending fortifying the locally produced cereal-based foods with specific nutrients a Sending them with other nutrient - rich foods to form nutritious composite mixture Wheat flour contains 11.8% of protein, 1.9% fat, 0.7% ash, 1.0% fiber, 77.6% carbohy Sorbean contains 40.0 % protein, 20.0 % fat, 35.0 % carbohydrate and 5.0 % as source of iron, calcium, phosphorus and some B-vitamins 19 Making involves germination of grains until the food-store (endosperm) which is ava a support the development of the germ of the grain, undergo some degradation

comes. During malting, the germination of the grains facilitates the production rele comes which helps to modify the grains (especially starch). Malting has been repoimprove the chemical, functional and pasting properties of flour.

The proximate composition of food products is important in pr fermulation/development and utilization. Therefore, the objective of the research determine the proximate composition of complementary food prepared from malted zzisoybean flour blends.

Materials and Methods

Wheat was obtained from Minna Mobil market Minna while soybean seeds was pur from National Cereal Research Institute Badeggi, Bida(NCRI) Niger State. The whee and soybean seeds were separately cleaned and sorted by winnowing and float move broken grains and extraneous materials. The seeds were soaked in tap water tours at ambient temperature. The steeped seeds were spread evenly in a raised plat a period of 72 hours and sprinkled with water four times daily. The germinated see theroughly washed. This was followed by steaming for 10 minutes to pre cook th The germinated grains and seeds were then dried in hot air oven at 120 °C for 12 hou dying, the germinated grains and seeds were dehulled, milled to flours sieved and p Malted wheat and soybeans flours were mixed at different proportions (100:0; 75:2 25:75, 0:100), where 100% malted wheat flour was used as standard. The flour ble Subjected to proximate analysis [4]. Proximate results obtained were subjected to a Variance [5]

Results and Discussion

The proximate composition of malted wheat and soybean flour blends is present There was significant ($p \le 0.05$) difference in moisture, protein, ash and ca tonients between control sample and the composite blends. The variation is

content may be me the week constrous in drying kineties between wheat and sort content may be an ast contents could be attributed to high protein and ash content in protein and ash contents are as a second of the content in the second of the s makes soybean than wheat, hour, However, the crude fiber content increased with inmatter sowpean dian will all there was no significant difference in crude fiber contents. sovbean flour annihous real care. The results of the procomposition of complementary foods prepared from malted wheat and soybean florrevenled that the formulated blends will provide high nutrient density.

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References

- Mosha, T.C.E and Vincent, M. M. (2005). Nutritional quality, storage stabacceptability of home-processed ready-to-eat composite foods for rehability undernourished preschool children in low-income countries. Journal of Processing and Preservation, 29: 331-356.
- Badifu, G.L.O., Chinma, C.E. Ajayi, Y.I. and Ogori, A.F. (2005). Influence of a mescocarp flour supplementation to micronutrient, physical and organoleptic. of wheat-based bread. Nigerian Food Journal. 23:59-67.
- lwe, M.O. (2003). The Science and Technology of Soybeans. Chemistry Processing and Utilization, 1st Ed., Rojoint Communication Services Ltd Enuga Nigeria.
- AOAC (1995) 'Official methods of Analysis'. Association of official and chemist 16° edition. Washington DC.
- Steel, R.D.G and Torrie J.H (1980). Principles, and Procedures of States Biometrical Approach 2nd edn. McGraw Hill Co. New York p 623.

Table 1: Proximate composition of malted wheat and soybean flour blends

| Waited wheat: | Moisture (%) | Protein (%) | Fiber (%) | Ash (%) | Fat (°/o) | Carbohya: |
|------------------|-----------------|-----------------------------|--------------|--------------------------|------------------------|-----------|
| stry beams | | 1 320 - | the store of | military to | | |
| 190:0 | 7.81*=0.19 | 9.61 = 0.61 | 1.69°=0.35 | 2.71°±0.29 | 4.43*b±0.27 | \$1.5 |
| 75:25 | 7.16°±0.04 | 14.75°±0.2 | 1,76°±0.02 | 3.06 ^{bc} ±0.06 | 4.07 ^b ±.07 | Telle |
| 50:50 | 6.00°±0,20 | 18.75°±0.2 | 2.72°=0.615 | 3.755±0.25 | 4.38° = 0.16 | 70-12-1 |
| 25:75 | 5.80°±0.20 | 19.31 ^b =1.1 | 3.17b ±0.16 | 3.25 ^b ±0.25 | 4.38° ±0.27 | 60.00 |
| 0:100 | 5.09°±0.09 | 23.41°±2.2 determination | 4.60°±0.07 | 6.95°±0.05 | 4.93°±0.06 | 81 5 |

ent superscript in a column are significantly (p<0.05) different from a is a retail part - to ush what mires