



Outcomes of the study

- ❖ The feeds formulated with 5% guava by-product inclusion have shown to have a slight improvement in the broiler chicken performance; improved feed intake, weight gain and feed efficiency.
- ❖ The study recommended the use of guava by product as an answer to increased feed demand and increased environmental pollution.

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UTILIZATION OF GUAVA BY-PRODUCTS IN ANIMAL FEEDS

Utilization of guava by-product in broiler chicken feed

- ❖ The byproducts from guava fruit processing include seeds, peels, and fibrous tissue from the skin that are a result of pulping



- ❖ Wastes from the processing of fruits pose a problem of environmental pollution which is of great concern. The process of disposing of the wastes by utilizing them in animal feeds and fertilizers is a good option
- ❖ In Kenya, there is inadequate knowledge on the nutrient content of the available guava by-products resulting in inadequate utilization of the by-products in animal feeds

Why utilize guava by-product in chicken feed?

- ❖ Use of guava by-product will help mitigate environmental problems that arise due to the decomposition of such wastes in the environment. The use of these wastes is also likely to reduce the cost of feeding, resulting in higher profits for animal keepers.
- ❖ Guava by-products have been used in the animal feed industry and have been fed to poultry (both layers and broilers) and pigs in other countries



Pictures showing the broiler birds from a day old to maturity.



Sun drying the guava by-product

Ground guava by-product

Why utilize guava by-product in chicken feed?

- ❖ Between 2010 and 2015 several new varieties of guavas fruits were introduced in Kenya to be established in plantations targeting the export market thus after processing the by-products need to be utilized.
- ❖ Ingredients used in the formulations of poultry feed are fluctuating in prices thus increasing the production costs. Thus an alternative feed ingredient that does not affect the poultry performance can be used to reduce production costs