

**Effects of Replacement Levels of Mahogany (*Sweetenia Microphylla*)  
Leaves for Cowpea Husk on Carcass Characteristics of West  
African Dwarf Goats with Maize Bran Supplement.**

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Leaves of mahogany (*Sweetenia microphylla*) leaves are an alternative feed source for ruminant (Malik et al., 1967) and can (2009), leaves and fruits of multipurpose trees and shrubs have

**Citation:** Escientific Publishers. (2024). Effects of Replacement Levels of Mahogany (*Sweetenia Microphylla*) Leaves for Cowpea Husk on Carcass Characteristics of West African Dwarf Goats with Maize Bran Supplement. *Archives of Veterinary and Animal Sciences* 6(1).



dewormed and treated against ectoparasites. Beranil was used against hemo-parasites and antibiotics were administered. At the end of the adaptation period of one week, they were tagged and

each treatment group were randomly selected and slaughtered for carcass evaluation at the end of experimental period. The animals were slaughtered following the standard procedures. The bodies

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2008).

Animals were maintained under fasting conditions (with availability of drinking water) for up to 18 hours. The following measurements were taken.

Pre-slaughter weight Animals were weighed immediately before their slaughter and this was termed pre-slaughter weight. For slaughter, each animal was stunned by a blow on the head and bled by cutting the jugular vein. The animal was hanged in a head down position till the bleeding completely stopped. Two animals from

Crude Protein (CP %)	12.61	10.22	11.64
Crude fiber (CF %)	30.22	27.32	18.40
Ether Extract (EE %)	7.50	7.34	3.75
NFE	39.88	52.12	30.32
Ash (%)	6.82	3.77	4.36

NB: MBR=Maize bran, CPH=Cowpea Husk, ML=Mahogany Leaves.

**Table 2:** Proximate compositions of Experimental feed Ingredients.

Effects of the diets on carcass (primal cuts) characteristics are presented in table 3. While the final live weights, Intact carcass

The effects of the diets on non-carcass (offal) characteristics are presented in table 4. The results obtained showed that values for lungs,

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Flanks(g)	165.00 <sup>c</sup>	305.00 <sup>a</sup>	305.00 <sup>a</sup>	180.00 <sup>b</sup>	3.88	**
Loins (g)	850.00 <sup>a</sup>	765.00 <sup>b</sup>	820.00 <sup>a</sup>	425.00 <sup>c</sup>	23.05	**
Neck (g)	473.00 <sup>d</sup>	489.00 <sup>c</sup>	533.00 <sup>b</sup>	609.00 <sup>a</sup>	1.00	**
Fat deposit (g)	185.00 <sup>a</sup>	105.00 <sup>d</sup>	141.00 <sup>b</sup>	115.00 <sup>c</sup>	6.13	**

NB: Means in the same row with different superscripts are significantly (p<0.05 or 0.01) different.

**Table 3:** Effects of the diets on Carcass (primal cuts) characteristics.

SI (g)	150.00 <sup>c</sup>	154.00 <sup>c</sup>	203.00 <sup>b</sup>	276.00 <sup>a</sup>	8.09	**
WB	810.00 <sup>a</sup>	620.00 <sup>b</sup>	500.00 <sup>c</sup>	650.00 <sup>b</sup>	10.05	**

Means in the same row with different superscripts are significantly (p<0.01) different.

NB: wt=weight, FL=Fore limb, HnLm=Hind limb, HdLg=Hind leg, LI=Large intestine, SI=Small intestine.

**Table 4:** Effects of the diets on Non-carcass (Offal) characteristics.

These findings are in agreement with Tshabalala et al. (2003) who stated that the total edible and saleable proportions of goats vary

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