

ABSTRACT

Sinta Aulia Rahmah. 24020120130094. "Carcass Weight and Tibia Bone Muscle Ratio of Hybrid Duck (*Anas platyrhynchos domesticus* L.) after Supplementation with Moringa Leaf Meal (*Moringa oleifera* Lam.)". Under the guidance of Sunarno and Kasiyati.

Moringa leaves are the organs of the moringa plant which are rich in nutrients such as protein, fat, fiber, as well as calcium and phosphorus minerals. Based on its content, moringa leaves can be utilized as a poultry feed additive expected to enhance productivity. This study aims to analyze the carcass weight and tibia bone muscle ratio in hybrid ducks after supplementation with moringa leaf meal feed. This study used a Completely Randomized Design consisting of four treatments, namely K0 (100% commercial feed), K1 (commercial feed with 2.5% moringa leaf meal), K2 (commercial feed with 5% moringa leaf meal), and K3 (commercial feed with 7.5% moringa leaf meal), each treatment was repeated 6 times. Feed and water were provided ad libitum. The data was analyzed using ANOVA test with a significance level of 5% and Kruskal Wallis test. The results of ANOVA and Kruskal-Wallis tests showed no significant differences on the variables of absolute and relative carcass weight, absolute and relative weight of carcass cuts (wings, breast, femur, tibia, back, and dorso-posterior), tibia muscle weight, tibia bone weight, and the muscle-to-bone ratio of the tibia compared to the control ($P>0.05$). Based on the research analysis, it was concluded that the provision of moringa leaf powder supplements to hybrid ducks couldn't potential to increase carcass weight and tibia bone muscle ratio.

Keywords: meat productivity, poultry, tibia bone weight