

# 飼糧中以粉碎稻穀取代玉米對土番鴨屠體性狀之影響

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本試驗旨在探討飼糧中含不同比率粉碎稻穀對土番鴨屠體性狀之影響。本試驗以土番鴨 240 隻進行試驗，0-3 週齡之雛土番鴨飼養於育雛室內，於飼養滿 3 週齡後，將土番鴨逢機分成 4 處理組，第一組為玉米及大豆粕試驗飼糧(對照組)，第二至四組分別以粉碎稻穀取代對照組玉米用量之 50%、75% 及 100%，各組皆等蛋白質及等代謝能，每處理組 3 重複，飼養於鴨舍進行飼糧試驗，並於 12 週齡時，每欄逢機挑選 3 隻鴨隻進行犧牲以測定屠體性狀。試驗結果顯示：在活體重方面，飼糧中含粉碎稻穀比率愈高土番鴨之活體重愈重( $P < 0.05$ )。在胸肉重方面，飼糧中含粉碎稻穀比率達 100% 時，其胸肉重有顯著地較對照組重 ( $P < 0.05$ ) 之結果。在胸肉之截切值及胸肉表皮之色澤方面，隨著飼糧中粉碎稻穀比率增加，胸肉之截切值無差異；但當粉碎稻穀比率達 75% 時，胸肉表皮之黃色值顯著降低 ( $P < 0.05$ )。由本試驗結果可得知，以粉碎稻穀取代飼糧中之玉米，有助於提高土番鴨活體重及胸肉重，但須留意屠體色澤淡化之問題。

關鍵詞：屠體性狀、土番鴨、粉碎稻穀

## EFFECT OF REPLACING DIETARY CORN WITH PULVERIZED RICE ON THE CARCASS TRAITS IN MULE DUCKS

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The purpose of this experiment was to determine the effects of feeding with diets containing different ratio of pulverized rice on the carcass traits of mule ducks. Two hundred and forty mule ducks were used in this experiment. Ducklings from hatched to 3 weeks of age were raised in the brooding house. After 3 weeks of age, ducks were raised in a duck house and allocated randomly into four treatments: control and three isocaloric and isonitrogenous groups in which graded level (50%, 75% or 100%) pulverized rice was in substitution for corn in control diet. There were three replicates in each treatment. At 12 weeks of age, three ducks in each replicate were randomly sacrificed to determine the carcass traits. The results showed that body weights of mule ducks were heavier in treatments containing higher ratio of pulverized rice ( $P < 0.05$ ). The pulverized rice group was the higher in breast weight than the control group ( $P < 0.05$ ), when the feed contained 100% pulverized rice. Despite diets with higher ratio of pulverized rice did not affect the shear force of breast meat, the b value on breast skin in the treatments containing over 75% pulverized rice was significantly reduced ( $P < 0.05$ ). The results showed that replacing corn with pulverized rice in diets could improve mule ducks' live weight and breast weight, but the appearance of color fading on carcasses should be considered.

Key words: Carcass traits, Mule duck, Pulverized rice