

Effect of adding different levels of wormwood plant to the diet in productive performance and some qualitative characteristics of quail eggs

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Abstract

This experiment was conducted in poultry field of College of Agriculture, Diyala University for the period 21/10/2015 until 15/12/2015 has been used in the experiment 96 female of Japanese quail introduced in cages 14 week age and randomly distributed in cages to four treatments and three replicates to each treatment with 8 females in each replicate. The treatments are as follows: T1 Control treatment without any addition of plant wormwood, T2 add worm wood plant 6 g / Kg of feed, T3 add worm wood plant 8 g / kg of feed, T4 add worm wood plant 10 g / Kg of feed. The feed mixing in the beginning to each 14 days period and continued to four periods and included experiment evaluated the following characteristics: average egg weight, weight of the yolk and albumen, thickness and weight of the shell, high albumen, yolk index, height and diameter yolk, the proportion of egg production (HD), egg mass, the cumulative production of eggs, calculate the amount of feed intake (bird / day) and feed conversion coefficient. The results of the experiment that the addition of *Artemisia herbaalba* led to a significant improvement ($P \leq 0.05$) in rate of egg production and the cumulative production of eggs and egg mass and feed conversion ratio and yolk high at the first period and shell weight at the second period, While significant differences did not appear in rate of egg weight and daily feed consumption and yolk diameter and yolk weight and yolk index and weight of yolk and albumen and albumen high and shell thickness. we conclude from the study that all levels of wormwood (*Artemisia herbaalba*), which was added in the Japanese quail diets led to high significant ($P \leq 0.05$) in egg production and that the addition of 8 g wormwood (*Artemisia herbaalba*) plant / kg of feed had the greatest impact in improving some of the characteristics in this experiment.

Key words: wormwood plant powder, Japnis quail