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by

Submission date: 29-May-2023 03:44PM (UTC+0700)

Submission ID: 2104437771

File name: Abstract-T._Eduard_A.S-AJAS2016.docx (14.31K)

Word count: 240

Character count: 1254

***Morinda citrifolia* Leaves and Fruits for Improving Egg Quality**

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Abstract

The objective of this research was to evaluate the use of *Morinda citrifolia* (MC) leaves and fruits into a non-corn-based diet in improving egg quality of laying hens. One hundred and forty seven laying hens were used and divided into seven treatments with three replicates, in which each replicate consisted of seven laying hens. Allocation of dietary treatments into experimental units was based on a completely randomized design. The treatments were: control diet (no MC), diet with 3% MC leaf meal, diet with 6% MC leaf meal, diet with 9% MC leaf meal, diet with 3% MC fruit juice, diet with 6% fruit juice, and diet with 9% MC fruit juice. Results revealed that egg shell weight, egg shell thick and egg yolk color were significantly influenced by dietary treatments ($P<0.05$). Egg weight, egg yolk weight, egg white weight and Haugh Unit were not significantly different for all dietary treatments. Among all MC diets, addition of 6% MC leaf meal in diet showed the best egg quality. It is concluded that MC leaves and fruits may be used to improve egg exterior quality and egg yolk color of laying hens.

Key Words: Egg, Egg Yolk, Egg Shell, Laying Hens, *Morinda citrifolia*

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PAGE 1
