

JERUSALEM ARTICHOKE (*HELIANTHUS TUBEROSUS L.*) INFLUENCE ON LAYING HEN'S EGGS' QUALITY CHARACTERISTICS

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Summary. Twenty Lohmann brown laying hens were used to determinate how Jerusalem artichoke additive in laying hens feed influence quality of laying hen's eggs'. Hens were randomly distributed into 2 treatment groups, with 10 hens per replicate. Treatment groups were fed basal diet (control) and basal diet plus 2 pct. Jerusalem artichoke. The feeding experiment was performed for 56 days, egg quality parameters were evaluated in 14 days intervals: egg weight, yolk weight, albumen height, Hough unit (HU), albumin pH, yolk pH, shell weight, shell thickness, shell breaking strenght, yolk color were measured. Visual evaluation of eggs during sensory analysis reveals some differences in albumen color homogeneity. Egg weight, yolk weight, were not significantly ($P > 0.05$) affected by the feed supplementation of Jarusalem artichoke. The experimental treatments had significant effects on egg shell quality traits. The shell breaking strenght were higher 6.86 ($p < 0.05$) in compare with control group and eggs shell weight with coat were bigger 6.39 pct. ($p < 0.05$) than control group eggs shell weight in the end of experiment. The results of this study demonstrate that the addition of Jarusalem artichoke into a laying hen's diet can impruve same egg's shell quality parameters, albumen height and Haught unit.

Keywords: Jerusalem artichoke, laying hen's, egg's quality