

Effects of TN57 sweet potato chip in diet on egg production and characteristics of Isa Brown hens ⁽¹⁾

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Abstract

The purpose of this study was to investigate the effect of replacing corn grain percentage with dried TN57 sweet potato in the diet on the egg production, egg quality, serum biochemical values, and production costs of layer hens. One hundred and twenty Isa Brown hens, twenty four weeks of age, were divided into five groups. The amount of TN57 sweet potato dried chip used in diets were 0%, 5%, 10%, 15% and 20% respectively. During the 13 week trial period, laying performance, egg quality and serum biochemical values were examined. The results showed that when the sweet potato replaced up to 15% of the corn grain in diet, the egg production, egg weight and egg mass decreased significantly. Added 5% dried TN57 sweet potato to placed 5% of the corn grain in diet could improve Haugh unit of egg quality. The cost of egg mass production was increased as the percentage of sweet potato increased in the diet. Considered the egg mass production and egg quality of laying hens, sweet potato should not be substituted more than 5% of the corn grain in diet.

Key words: Sweet potato, Egg quality, Egg production performance.

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