The Impact of Substituting Commercial Feed with Cassava Leaf Flour on Quail Production Performance

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Abstract

Background - Quail is a land bird that provides both meat and eggs, serving as a vital source of animal protein. In Indonesia, the quail population has grown significantly as awareness of nutritional needs increases.

Purpose - This research investigates the impact of cassava leaf flour in quail feed to improve productivity, an area that has been largely unexplored.

methodology - Conducted from August to September 2024 in Situ Udik Village, Bogor Regency, the study employed a Completely Randomized Design (CRD) with four treatment levels and five replications, totaling 20 experimental units of six adult quails each. Treatments included: P0 = 100% commercial feed, P1 = 95% commercial feed + 5% cassava leaf flour, P2 = 90% commercial feed + 10% cassava leaf flour, and P3 = 85% commercial feed + 15% cassava leaf flour. Data were analyzed using Analysis of Variance (ANOVA).

Findings - The best egg production occurred with 90% commercial feed and 10% cassava leaf flour, while the highest average egg weight and feed conversion rate were seen with 85% commercial feed and 15% cassava leaf flour. For optimal results, the recommended treatment is P3 (85% commercial feed + 15% cassava leaf flour).

Originality - the best feed conversion was obtained from feeding 85% commercial feed + 15% cassava leaf flour. To obtain the best production results, it is recommended to use P3 treatment feed, namely 85% commercial feed and 15% cassava leaf flour.

Keywords: cassava leaf flour, quail eggs, quail, quail performance