

THE EFFECT OF CAGE DENSITY ON BROILER PERFORMANCE WHICH MAINTAINED WITH STAGE CAGE SYSTEM

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ABSTRACT *)

This study aimed to determine the effect of cage density on the performance of broilers that were maintained on stage cage system. The study was conducted from January to March 2018 in Bedoyo Village, Ponjong, Gunungkidul. The material used was 220 broilers aged 1 day and stage type cage with a length of 8 m and a width of 5 m. The design used was Completely Randomized Design pattern in the direction of 4 cage density treatments consisting of: T1 = 8 chicks/m², T2 = 10 chicks/m², T3 = 12 chicks/m² and T4 = 14 chicks/m² respectively each treatment 5 repetitions. The collected data were analyzed by analysis of variance. Parameters observed included feed consumption, body weight gain, feed conversion, mortality and Income Over Feed and Chick Cost (IOFCC). The results showed there were no significant differences ($P > 0.05$) between the four cage density treatments for the observed parameters. The average feed consumption during the study consecutively from T1 to T4 was 2862.2; 2742.4; 2811.2 and 2796.0 grams. The average body weight gain in a row from T1 to T4 was 1856.0; 1787.0; 1825.4 and 1827.0 grams. The average feed conversion successively from T1 to T4 was 1.54; 1.53; 1.54 and 1.53. The average mortality rate during the consecutive studies from T1 to T4 was 7.5; 10; 10; and 10%. The average IOFCC consecutively from T1 to T4 was Rp. 11,024.00; Rp. 10,464.00; Rp. 10,764.00 and Rp. 10,874.00. Based on the results of the study, it could be concluded that the density of the stage cage system of 14 chicks/m² gave the best performance of broilers.

(Keywords: Broiler, Performance, Cage Density)

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