

Effects of egg storage time and broiler breeder age on hatchability and weight of Ross 308 broiler chick

Abstract

Quality of one day chickens has an important role on daily gain and economic efficiency in raising broilers. On the other hand, usually in flocks of breeder broiler, eggs stored for different times and then are transferred to the incubator units. Eggs kept in storage before incubation has negative impact on quality of eggs and one day chicks. In this study investigated the effects of breeder age and egg storage time, on weight of one day chickens and daily weight gain of chickens. Eggs collected from hens 32 weeks of age (young mother) and 74 weeks (older mothers) storage for 1 and 9 days. This research does through a 2×2 factorial experiment in randomized complete block design with four replications. Data were analyzed using SAS software. The survey results showed that the weight of one-day chicks is lighter from young mother, but weight gain in the weeks after the breeding period is the higher in the chicks ($p < 0.01$). The results showed no difference between chicks from eggs stored up to 9 days. Since 90% of the poultry industry's cost of selling one day chickens is provided and average daily weight gain is a young breeder chickens, it is recommended that producers of broiler chickens purchased chicks from young breeders.

Keywords: Breeder, Broiler chicks, Hatchability, Weight, Age, Ross 308



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