

## **ABSTRACT**

### **THE EFFECT OF STORAGE DURATION TO FERTILITY, WEIGHT LOSS, HATCHING EGGS, AND HATCHING WEIGHT OF THE ARABIC CHICKEN EGG**

By  
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The Arabic chicken is superior layer chicken, that has high ability to produce egg, i.e 230—250 eggs/chicken/year . Generally, the Arabic chicken was use as layer chicken and not to use as broiler chicken. One the effecting factor to fertility, weight loss, hatching eggs, and hatching weight is storage duration.

The purpose of this research are (1) to assest the effect storage duration of the Arabic chicken egg to fertility, weight loss, hatching eggs, and hatching weight and (2) to determine the best storage duration to fertility, weight loss, hatching eggs, and hatching weight. This research was done on December 13<sup>th</sup>, 2014 until January 8<sup>th</sup>, 2015 at Ilham hatchery, Tegal Rejo village, Gadingrejo subdistrict, Pringsewu regency.

This research use the complete randomize design with 3 treatments and 6 times replication. Every treatment use 9 of the Arabic chicken eggs. The beginning weight average is  $41,18 \pm 2,18$  g/egg with  $\pm 5,31\%$  uniformity coeffisien. The treatment given the significant effect to definite variable ( $P < 0,05$ ), the analyzed be continue with Duncan test. The research result shown that storage duration have significant effect ( $P, 0,05$ ) to hatching eggs, but have not significant effect ( $P > 0,05$ ) to fertility, weight loss, and hatching weight of the Arabic chicken egg.

Keywords : Egg storage duration, fertility, weight loss, hatching eggs, hatching weight, and Arabic chicken.