

Effect of Parent Age on Fertility, Hatchability, Hatching Weight and Mortality of Hybrid Duck Eggs

Wahyu Nita Nur Anggraini
Poultry Business Management Study Program
Department of Animal Husbandry

ABSTRACT

Currently the development of ducks in Indonesia is still not stable every year. Compared to the chicken population, the duck population in Indonesia is still far behind. To overcome this problem, it is necessary to have breeding activities so that it can support the increasing population with good quality. This study was conducted to determine whether or not there was an effect of parent age on fertility, hatchability, hatching weight, and mortality of hybrid duck eggs. The research was conducted on November 22, 2023 until December 19, 2023 located at UD. Putra Jember Mujomulyo Village, RT.001 RW.003, Puger District, Jember Regency. Hatching eggs used in the study came from 30-week-old hybrid ducks as treatment 1, 68-week-old hybrid ducks as treatment 2, and 120-week-old hybrid ducks as treatment 3 with each replicate using 20 hatching eggs. This study used a completely randomized design (CRD) with 3 treatments and 6 replicates. Data processing used IBM SPSS Statistics application. If the analysis of variance shows a real effect, it will be continued with Duncan's test with a real level of 5%. The results showed an average fertility of 88.33%, hatchability of 52.84%, hatching weight 46.51 grams, and mortality 46.68%. The conclusion of this study is that the age of the parent affects fertility, hatchability, hatching weight, and mortality of hybrid duck eggs.

Keywords: *Hybrid Ducks, Parent Age, Fertility, Hatchability, Hatching Weight, mortality*