

CROSSED BREED CHICKEN POTENCY BETWEEN BUNIDA F1 AND BRESSE ROOSTER

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Abstract

Background - The high of market demands for animal protein has encouraged the optimization of local chicken genetic resources using to produce superior breeds that are able to fulfill demand needs.

Purpose - This research aims to determine and evaluate the potential of Bresse Unggul Universitas Djuanda (BUNIDA) F1 chickens and the crossed breed chickens with bresse rooster.

methodology - BUNIDA F1 hens are inseminated with bresse's fresh semen. The eggs are collected and incubated in an automatic hatching machine at 37 - 38°C temperature and 60 - 70% humidity. The eggs fertility and embryo development observed on 4th, 7th and 18th days incubation process with candling method. The parameters observed were egg weight, egg fertility, hatchability and hatching weight.

Findings - The results shows that crossed breed BUNIDA F1 with bresse rooster potency are 54.12 ± 2.70 g for egg weigh, $82.59 \pm 5.11\%$ fertility rate, $71.14 \pm 10.67\%$ for hatchability, and hatching weight of BUNIDA F2 (75% Bresse genetics) is 37.86 ± 1.97 g. It can be concluded that BUNIDA F1 and BUNIDA F2 have the potential to be developed into superior local chickens.

Originality - The originality of this study is the newest information about the potency of BUNIDA F1 and their crossbreed (BUNIDA F2) as superior local chicken.

Keywords: BUNIDA F1, BUNIDA F2, local breed, superior chicken, crossed breed
