

Percentage of Fertility, Hatchability and Hatch Weight of Selected Local Cross-breeds of Chickens

Adinda Titan Putri Santoso

Poultry Business Management Study Program
Livestock Department

ABSTRACT

Local chickens are germplasm that needs to be preserved but have low egg production. Therefore, efforts are needed to increase production performance in local chickens. One such effort is to implement a crossbreeding system of several local chicken breeds. In this study, observations were made on the results of crossbreeding of several local chicken breeds, namely from superior elders such as Pelung chicken, Sentul chicken, Gaok chicken, Arab chicken, and Kedu chicken. Fertility, hatchability, and hatching weight are indicators of the success of this research with crossbreeding techniques. This study aims to determine the productivity of the crossbreeding results of several local chicken breeds. The method of analysis used is quantitative descriptive analysis used to explain the results of crossbreeding with several local chicken breeds. Observations taken in this study are data on the percentage of fertility, hatchability, and hatching weight carried out during the process of entering hatching eggs every week. Hatching eggs used came from the UPA hatchery of Jember State Polytechnic with the ratio of males and females in cage 1 pen 1 (1: 7), pen 2 (2: 10), pen 3 (1: 7), pen 4 (1: 8), in cage 2 pen 1 (1: 8), pen 2 (2: 10), pen 3 (1: 7), pen 4 (2: 9), in cage 3 pen 1 (1: 6), pen 2 (1: 7), pen 3 (1: 7), pen 4 (1: 7). The results showed an average fertility of 91%, hatchability of 75.5%, and hatching weight of 28.8 grams. The final conclusion of this study states that the fertility of the eggs produced is high, the hatchability produced is still relatively low due to differences in sex ratio, and the hatching weight can be categorized as good.

Keywords: Crossbred local chickens, fertility, hatchability, hatching weight