

# flock composition

*by* Tertia Delia

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**Flock Composition, Effective Population Size and Inbreeding Rate of Kokok balenggek Chicken Breed under In-Situ Conservation**

Rusfidra, Mendro Gusrizal, Yuda Gusrin, Muhammad H. Abbas, Husmaini, Firda Arlina, Kusnadidi Subekti and Tertia D. Nova  
Faculty of Animal Science, Andalas University, Kampus Limau Manis, Padang-25163, West Sumatera, Indonesia

**Abstarc :**

The present study was aimed to calculate flock composition, effective population size and inbreeding rate of Kokok balenggek chicken (KBC) under in-situ conservation area in tigo lurah district, Solok Regency, West Sumatera Province, Indonesia. A semi-structured questionnaire was administered to 55 selected households engaged in KBC farming in the study area. The results showed that total number of KBC at in-situ conservation area was 938 heads. Chicken flock composition of KBC was chick (50.31%), chicken grower (26.03%) and adult chicken (23.66%). A low male: female ratio ( $N_m/N_f$ ) of 1:1.7 was observed in the KBC breed. Number of effective population size ( $N_e$ ) was 206 heads. The rate of inbreeding ( $\Delta F$ ) calculated for the indigenous KBC flock considering the existing flock size and management practice was 0.0024 (0.24%) indicating that the KBC breed was not at the risk of extinction. It is concluded that inbreeding rate in KBC population in tigo lurah district at in-situ conservation area is not found.

**Key Word :**

KBC, flock composition, effective population size, inbreeding rate, West Sumatera-Indonesia

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