

## New livestock production and evaluation of hatching performance in the Guinea fowls at the city of Korhogo

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**ABSTRACT:**

A study was conducted in the town of Korhogo to evaluate the production performance of eggs in the local guinea fowl (*Numida meleagris*). For this research, a total of 300 guinea including 250 females and 50 males were bred in an area of 75 m<sup>2</sup>, with the density of 13 guinea/m<sup>2</sup>. The experiment lasted for eight weeks, i.e. from 18 weeks to 25 weeks. The survival rate weight gain were analysed through the study. It was studied by providing more illumination and selected feed for the livestock. The results showed that the average weight increased from 1200 g to 1263 g. Average daily gain increased from 0.94 g/day for 18 weeks to 1.14 g/day for 25 weeks. The consumption index advanced from 10.46 to 10.47 and the mortality rate increased from 0.33% to 5%. With regard to the laying performance, the average weight of eggs ranged from 31 g to 33.5 g, the rate of hatching ranged from 4.01% to 28.07%, size increased from 5.95 cm to 6.9 cm and the turn diameter increased from 10.59 mm to 11.65 mm. Ultimately, this study results showed the increased production performance in the local guinea fowl.

**Keywords:**

Production performance, Eggs, Local guinea fowl, Korhogo.