

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



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PRODUCTIVE AND PHYSIOLOGICAL STUDIES ON SOME LOCAL BREEDS DURING THE LAYING PERIODS

By

HANAN ABD-EL-AZEEM IBRAHEEM EL-MENSHAWY

B.Sc. Agric. Sci., Fac. of Agric., (Poultry Production)

Ain Shams University, 1994

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ABSTRACT

This study was carried out at Anshas poultry Experimental station Animal Production Research Institute, Ministry of Agriculture, Egypt. The aim of this work was to investigate the difference among three local Egyptian chicken strains through observation of egg quality, egg production, physical and biochemical parameters of strains.

One hundred and eighty 24 weeks old Golden Montazah, Mandarah and Matrouh were used in this study. The productive and physiological characters had been recorded at three stages:

- 1- At 5% production
- 2- After 3 months from the sexual maturity (peak of production).
- 3- After 6 months from sexual maturity (the end of production).

The results of this study can be summarized as follows:

- 1- All of the productive traits and physiological parameters studied were in favor of Mandarah strain.
- 2- The average age at sexual maturity of Matrouh was significantly higher than both Golden Montazah and Mandarah.
- 3- Matrouh was significantly lower in feed consumption, egg weight, shell thickness, yolk index and yolk color than Golden Montazah and Madarah. While the difference between Golden Montazah and Mandarah was not significant.
- 4- There were no significant differences in shell weight percentage, albumin weight percentage, yolk weight percentage, egg shape index and body weight between all strains.
- 5- There were significant differences among period in egg weight albumin weight percentage, feed consumption, shell weight percentage, shell thickness, Haugh units, yolk weight percentage and yolk color.
- 6- There were significant differences between all strains in body weight and Haugh units.
- 7- There were significant differences between all strains in alkaline phosphatase.
- 8- There were no significant differences between all strains in red blood cells count and GPT.
- 9- For all strains RBC'S were significantly increased as the age increased, while, WBC and alkaline phosphatase were significantly decreased as the age increased.
- 10- For all strains Hematocrit and Inorganic phosphorus were decreased from 6 to 9 months of age, afterthat it increased. While, GPT, GOT and Ca levels were gradually increase from 6 to 9 months of age, then decreased from 9 to 12 months.
- 11- The overall mean of Ht, Hb, GOT and Ca in Golden Montazah and Mandarah strains were significantly higher than that of Matrouh strain.

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