بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

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Some Studies on the Environmental Factors Affecting Broiler Performances in Upper Egypt

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For Master Degree in Animal, Poultry and Environment Hygiene

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Abstract:

The current field study was conducted on 6 broiler farms located in Sohag governorate during winter, summer and autumn to figure out the impact of indoor broiler climate elements (CL) (ambient temperature (**Ta.°C),** relative humidity **(RH%)** and air velocity **(AV m/sec.)** on the microbial load **(ML)** of the indoor abiotic components **(AC)** effects on performance indices (PI) (feed intake **(FI)** g/w/bird, live body weight (**LBW)** g/w/bird, feed conversion rate **(FCR)**, and mortality %). **The first study was accomplished during winter.** The results revealed ,the mean value of AC BL and FL was high in farm 1 vs. farm 2 .A significant difference was recorded in BL between two farms at 35days. The same means value of Ta. °C was receded in both farms. Higher RH% was recorded in farm 2. The negative correlation was recorded between Ta. °C and all PI on farm 1 but with the mortality rate in farm 2. RH% was significantly correlated with LBW and FCR in farm 1, while in farm 2 correlated with FI and FCR. AV m/sec. was negatively correlated with all PI specially mortality % in farm 1 but did not significantly affect all PI in farm 2. **The second study was carried out during summer and autumn.** The results showed, during summer, a significant difference in AC FL between both farms was recorded in both farms at 35 days in farm 2. Indoor Ta. °C and AV m/sec were significantly correlated with FI, LBW and FCR in both farms in farm 1& 2. Indoor RH % was significantly correlated with FI, LBW, and FCR in farm1. Mean value of IAML showed a higher BL in both farms in autumn vs. summer mainly in farm 1 at 7 days & in farm 2 at 7, 21 day with significant difference. FL was higher in both farms during summer vs. autumn. The means difference in BL in autumn from AC was significant (7&35 and 21&35 ds) and in farm1 at (7 & 35 and 21&35 ds). The significant mean differences in AC BL and FL (7-35 ds) were recorded during autumn.

Keywords: broiler, abiotic components, ambient temperature, air velocity, climate elements, microbial load, performance indices, relative humidity, seasons, feed intake, live body weight, feed conversion rate**.**

DEDICATION

I would like to dedicate this thesis to my family

My mother, my wife and my children.

My brothers, sisters and all my friends.

Thanks for your endless love, sacrifices, prayers, supports and advices.

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First of all, my prayerful thanks to Almighty Allah for everything in my life and for being my God.

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