



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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التوثيق الإلكتروني والميكروفيلم

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التوثيق الإلكتروني والميكروفيلم

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

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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 35 days. The same means value of Ta. °C was recorded 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 farm 1. 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 farm 1 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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List of Contents

ITEM	Page No.
List of tables	I-III
List of figures	IV-V
List of abbreviations	VI
Chapter 1.	
1.Introduction	1-2
2.Aim of work	3
Chapter 2.	
Review of literature	4-10
2.1.Indoor microclimate elements	4
2.1.a. Ambient temperature	4-5
2.1.b.Relative humidity	5-6
2.1.c.Air velocity	6
2.1.d.Stocking density	7-8
2.2.Indoor air microbial load in poultry house	8-9
2.3.Factors affecting broiler performance indices	9-10
Chapter 3	
3.1 First paper	11-36
Title: Impact of Indoor Climate Elements on Microbial Profile of Indoor Broiler Environment and its Returns on Performance Indices During Winter in Upper Egypt.	
3.2 Second paper	37-68
Title: Indoor Environment Microbial Profiles and Microclimate and Their Impact on Performance Indices in Upper Egypt During Summer and Autumn.	
Chapter 4.	
Discussion	69-78

ITEM	Page No.
Chapter 5. 5.Conclusion and Recommendations	79-81
Chapter 6 6.Summary	82-85
Chapter 7 7.References	86-96
Chapter 8 8.Arabic summary	1-3

List of Tables

Table No.	Title: Impact of Indoor Climate Elements on Microbial Profile of Indoor Broiler Environment and its Return on Performance Indices During Winter in Upper Egypt.	Page No.
(1)	Mean value \pm SD of bacterial load of indoor abiotic components in broiler farms during winter (7-35ds)	22
(2)	Cumulative Mean Values \pm SD of Microbial load of Indoor Abiotic Components in Broiler Farms during winter	23
(3)	Mean value \pm SD of fungal load of indoor abiotic components in broiler farms during winter (7-35ds)	24
(4)	Significant differences in microbial load of abiotic components between broiler farms in winter.	25-26
(4) a	Bacterial load in winter day 7,21 and 35	25
(4) b	Fungal load in winter day 7,21 and 35	26-26
(5)	Impact of age on mean differences in microbial load of indoor abiotic component (ML AC) in broiler farms during winter	27
(6)	Mean values \pm SD of indoor air microbial load (IA ML) in investigated farms during winter	28
(7)	Cumulative mean values \pm SD of indoor air microbial load (IAML) in broiler farms during winter.	29
(8)	Cumulative mean \pm SD values of indoor climate elements (CL) in broiler farms during winter	29
(9)	Mean values \pm SD of performance indices (PI) in broiler farms during winter at 35 days.	30
(10)	Correlations (spearman rho) between indoor climate elements (CL) and performance indices (PI) in broiler farms during winter.	31

Table No.	Title: Indoor Environmental Microbial Profiles and Microclimate and Their Impact on Performance Indices in Upper Egypt During Summer and Autumn.	Page No.
(1)	Mean values \pm SD the microbial load of indoor abiotic components in broiler farm during summer	50
(2)	Significant differences in microbial load of abiotic components between broiler farms in summer	51-52
(2) a	Significant differences in mean value of bacterial load of abiotic components between broiler farms in summer day 7,21 and 35	51
(2) b	Significant differences in mean value of fungal load of abiotic components between broiler farms in summer day 7,21 and 35	51-52
(3-a)	Means value \pm SD of bacteria load (BLCFU) of indoor abiotic components (AC) in broiler farms during summer (7-35ds)	52
(3-b)	Means value \pm SD of fungi load CFU of indoor abiotic components in broiler farms during summer (7-35ds)	53
(4)	Impact of age on mean differences in microbial load of indoor abiotic components in broiler farms during summer.	54
(5)	Correlations between indoor climate elements and performance indices in broiler farms during summer	55
(6)	Mean values \pm SD the microbial load of indoor abiotic components in broiler farms during autumn	55
(7)	Mean value \pm SD of indoor Air microbial load (IA MLCFU) during summer and autumn	56
(8)	Significant differences in mean value of microbial load of indoor AC between broiler farms in autumn	57-58
(8) a	Significant differences in mean value of bacterial load of indoor AC between broiler farms in autumn 7,21 and 35	57-58

(8) b	Significant differences in mean value of fungal load of indoor AC between broiler farms in autumn day 7,21 and 35	58
(9-a)	Mean values \pmSD of bacterial load IA BL CFU of indoor air broiler farms during autumn (7-35ds)	58
(9-b)	Mean values \pmSD of fungal load of indoor air in broiler farms during autumn (7-35ds)	59
(10)	Impact of age on mean differences in microbial load of indoor abiotic components in broiler farms during autumn.	60
(11)	Mean \pmSD values of indoor climatic elements (CL) in broiler farms during summer and autumn	61
(12)	Correlations between indoor climatic elements within summer and autumn seasons.	61
(13)	Mean \pmSD values of performance indices in different seasons in broiler farms.	62
(14)	Correlations between indoor climatic elements and performance indices in broiler farms during autumn.	63

List of Figures

Figure No.	Title: Impact of Indoor Climate Elements on Microbial Profile Of Indoor Broiler Environment and its Return on Performance Indices During Winter in Upper Egypt.	Page No.
(1)	Mean value of bacteria load of indoor abiotic components in broiler farms during winter (7-35ds)	22
(2)	Cumulative Mean Values of Microbial load of Indoor Abiotic Components in Broiler Farms during winter	23
(3)	Means value of fungal load of indoor abiotic components in broiler farms during winter (7-35ds).	24
(4)	Mean values of indoor air microbial load (IA ML) in investigated farms during winter.	28
(5)	Cumulative mean values of indoor air microbial load (IAML) in broiler farms during winter.	29
(6)	Cumulative mean value of indoor climatic elements (CL) in broiler farms during winter.	30
(7)	Mean values of performance indices (PI) in broiler farms during winter at 35 days.	31