



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



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بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات
لم ترد بالأصل

FRESH AND DRIED AZOLLA AS A FEEDSTUFF FOR BROILERS AND LAYERS

By

MOHAMED MOSTAFA MAHMOUD NAMRA

B.Sc.(Agric), Faculty of Agriculture, Al-Azhar University (1976)

M.Sc. (Agric), Faculty of Agriculture, Al-Azhar University (1991)

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BY

MOHAMED MOSTAFA MAHMOUD NAMRA

Approved as to style and contents by committee in charge :

Prof. Dr. M. F. El-Fay

Prof. Dr. M. Abdella

Prof. Dr. F. M. Omar

Prof. Dr. A. A. Dawish

Date : 3 /10 / 2000

ABSTRACT

Two experiments were conducted in the present study. Experiment 1 was designed to study the efficiency of replacing yellow corn and soybean meal with different levels of air dried azolla on performance of broiler chicks. A total number of one hundred and fifty unsexed one-day old Arbor Acres broiler type chicks were used in the experiment.

Experiment 2 was designed to study the effect of diet restriction with free fresh azolla supplementation on layer performance. One thousand and six hundreds one-day fayoumi chicks were used in the experiment.

Concerning experiment 1, the results obtained during the entire period (7 weeks of age) were as follows:

- 1-At the end of experiment (7week of age) the control group achieved the heaviest LBW and LBW which were reduced by raising air dried azolla level. Replacing yellow corn and soybean meal by dried azolla up to 5% was without any deleterious effect on the growth during the entire period
- 2-No significant differences in FI were detected between the different groups, and the control group (0% air dried azolla) recorded the least amount of FI
- 3-The control group recorded the best LBWG while the group of 10% air dried azolla recorded the worst LBWG.
- 4-FC, FI, CPC and CER deteriorated by raising air dried azolla level in the diet of broiler chicks.
- 5-PI was reduced by increasing air dried azolla level on the diet of broiler chicks.
- 6-Addition of air dried azolla in the diet of broiler chicks had no appreciable effect on both the slaughter characteristics and the chemical composition of carcass flesh meat.
- 7-No decline in Hb and PCV% was observed indicating no anemic effect due to addition of air dried azolla.
- 8- Addition of air dried azolla to broiler chicks diet had no appreciable effect on plasma total protein, albumin, triglyceride, total cholesterol, total lipid, uric acid, calcium, phosphorus, GOT and GPT activities.
- 9-Mortality rate increased with increasing air dried azolla.
- 10-Economic efficiency was reduced by increasing the level of air dried azolla in the diet.

The following results were obtained from experiment 2:

- 1-Feeding fayoumi laying hens with 15% restricted diet plus free fresh azolla resulted in increased egg production, early age of sexual maturity, the highest egg number and the best egg mass.
- 2- Feeding fayoumi laying hens with 15% restricted diet plus free fresh azolla gave the lowest embryonic mortality at 18 and 21 days.
- 3-Fresh azolla can compensate the restriction in diet until 15% without any depression in both fertility and hatchability.
- 4- Fresh azolla can compensate the restriction in diet until 15% without decline in Hb, PCV%, RBC and WBC count. Further increasing of restriction level reduced PCV %, RBC and WBC count.
- 5- Blood constituents and semen characteristics were not affected by feeding birds with restricted diets plus free fresh azolla.
- 6-Fresh azolla can compensate the restriction in diet until 15% Fayoumi layers to gave the lowest mortality.

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