شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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

يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%

بعض الوثائق الاصلية تالفة

بالرسالة صفحات لم ترد بالاصل

INFLUENCE OF SOME NUTRITIONAL FACTORS ON PRODUCTIVE PERFORMANCE OF EGYPTIAN BUFFALOES

BY

NASR EL-SAYED YAHYA MOHAMED ELBORDENY
B. Sc. Agric. (Animal Production), Ain Shams Univ., 1996

A thesis submitted in partial fulfillment

of

the requirements for the degree of

Master of Science

in

Agricultural Science

(Animal Nutrition)

Department of Animal Production

Faculty of Agriculture

Ain Shams University

2000

APPROVAL SHEET

INFLUENCE OF SOME NUTRITIONAL FACTORS ON PRODUCTIVE PERFORMANCE OF EGYPTIAN BUFFALOES

BY

NASR EL-SAYED YAHYA MOHAMED ELBORDENY
B. Sc. Agric. (Animal Production), Ain Shams Univ., 1996

The thesis for M. Sc. Degree has been approved by:

Prof. Dr. A. A. Gabr.....
Prof . of Animal Nutrition , Animal Production
Department, Fac. of Agric., Mansoura Univ.

Prof. Dr. A. A. El-Basiony.....
Prof . of Animal Nutrition , Animal Production
Department, Fac. of Agric., Ain Shams Univ.

Prof. Dr. M. A. El-Ashry.....
Prof . of Animal Nutrition , Animal Production
Department, Fac. of Agric., Ain Shams Univ.(Supervisor).

Date of examination: / / 2000

INFLUENCE OF SOME NUTRITIONAL FACTORS ON PRODUCTIVE PERFORMANCE OF EGYPTIAN BUFFALOES

BY

NASR EL-SAYED YAHYA MOHAMED ELBORDENY
B. Sc. Agric. (Animal Production), Ain Shams Univ., 1996

Under the Supervision of :

Prof. Dr. M. A. El-Ashry
Prof . of Animal Nutrition , Animal Production Department, Fac. of Agric., Ain Shams Univ.

Prof. Dr.H. M. Khattab
Prof . of Animal Nutrition , Animal Production Department, Fac. of Agric., Ain Shams Univ.

Dr.H. M. El-sayed
Assist. Prof . of Animal Nutrition , Animal Production Department, Fac. of Agric., Ain Shams Univ.

ABSTRACT

Nasr El-Sayed Yahya Mohamed El-Bordeny. Effect of some nutritional factors on the productive performance of Egyptian buffalo. Unpublished Master of Science thesis, Departement of animal production, Faculty of Agriculture, Ain Shams University, 2000 .

Twenty four lactating buffaloes in their 2nd wk before expected parturition were grouped into 4 feeding treatments, 6 animals each, according to their milk yield in the last preceding lactation and animal weight. The treatments were (1) NRC allowances (2) NRC allowances +10 g YC Yea-Sacc 1026 /head per day (3) Local allowances (4) Local allowances +10 g YC /head per day. The daily ration cover the animal allowances, and consisted of concentrate feed mixture (CFM), dried sugar beet pulp, tapioca, sunflower meal waste: berseem or darawa, rice straw (C:R ratio a bout 65:35 dry matter basis). The treatments extended to 180 days after parturition. The addition of YC to animal diets of the local allowances group results higher (P>0.05) values of nutrients digestibility for DM, OM, CP, CF and EE, but higher digestibility (P<0.05) due to the supplementation by YC on NFE. Supplementation of YC to animal diets enhance (P<0.05) feed conversion for dry matter (DM) and gross starch value (GSV). Supplementation of YC to animal diets showed significant (P<0.05) higher milk and FCM4% yield. The animal were fed local allowances and supplemented with YC showed higher (P>0.05) milk yield and 4% FCM yields than those recorded with NRC allowances. The treatments had no significant (P>0.05) effect on colostrum composition. Experimental animal, which fed Local allowances, showed significantly higher (P<0.05) milk fat % than those fed NRC allowances, and also supplementation by YC to buffalo diets showed no significant differences. Supplementation by YC showed a decrease (P>0.05) of

milk protein, lactose and SNF % compared to the non-supplemented groups. Also animal which fed local allowances decreased ($P<0.05$) lactose and SNF, but not influenced protein %. Fat, protein, lactose, TS, SNF and Ash yields were significantly ($P<0.05$) higher for groups fed diets supplemented with YC than those non-supplemented. No significant ($P>0.05$) differences observed in fat, protein, lactose, TS, SNF and ash yields due to applying local allowances. Supplementation by YC showed no significant ($P>0.05$) effect on serum TP, Alb., Glo., urea, creatinine concentrations and A: G ratio, but there was significant ($P<0.05$) decrease in serum total lipids. The local allowances showed significant ($P<0.05$) increase of serum TP, Alb., A: G ratio and total lipids, while Glo, urea and creatinine not influenced.

Key words: Allowances, Yeast culture, Lactating buffalo, Nutrients digestibility, Blood serum, Milk yield, Feed conversion.

ACKNOWLEDGEMENT

I thank Allah , the most gracious, most beneficent and merciful for the help and guidance to achieve goals and make them possible.

I wish to express my great independence to Prof. Dr. M. A. El-Ashry, Prof . of Animal Nutrition and director of Milk Replacer Research Center, Animal Production Department, Faculty of Agriculture., Ain Shams University .for suggestion the problem, his close supervision throughout this work, I am very grateful to his close kind help, useful guidance and valuable criticisms.

Also I wish to express my great independence to Prof. Dr. H.M. Khattab, Prof . of Animal Nutrition, andchairman of Animal Production Department, Faculty of Agriculture., Ain Shams University .for suggestion the problem, I am very grateful to his close kind help, useful guidance and valuable criticisms.

Recording my thanks to Dr. H.M. El-Sayed, associat. Prof . of Animal Nutrition, Animal Production Department, Faculty of Agriculture., Ain Shams University, for his valuable help, useful guidance, preparation and writing of this manuscript, valuable criticisms, and encouragement.

Grateful acknowledgement should be also extended to the staff members of the Animal Production Department, Faculty of Agriculture., Ain Shams University, for the facilities they offered to make this work possible.

Cordinal thanks and gratitude to my family special my mother and my father for their encouragement by every possible means.

And also I wish to express my great thanks all my company for the facilities they offered to make this work possible.

LIST OF CONTENTS

LIST OF TABLES