

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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NUTRITIONAL PERFORMANCE OF GOATS FED DIFFERENT TYPES OF DIET UNDER SALINITY AND WATER DEPRIVATION

BY

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A THESIS

Submitted in Partial Fulfillment of The Requirements for the Degree of



Master of Science
in
Agriculture
(Animal Nutrition)

Department of Animal Production Faculty of Agriculture Ain Shams University



APPROVAL SHEET

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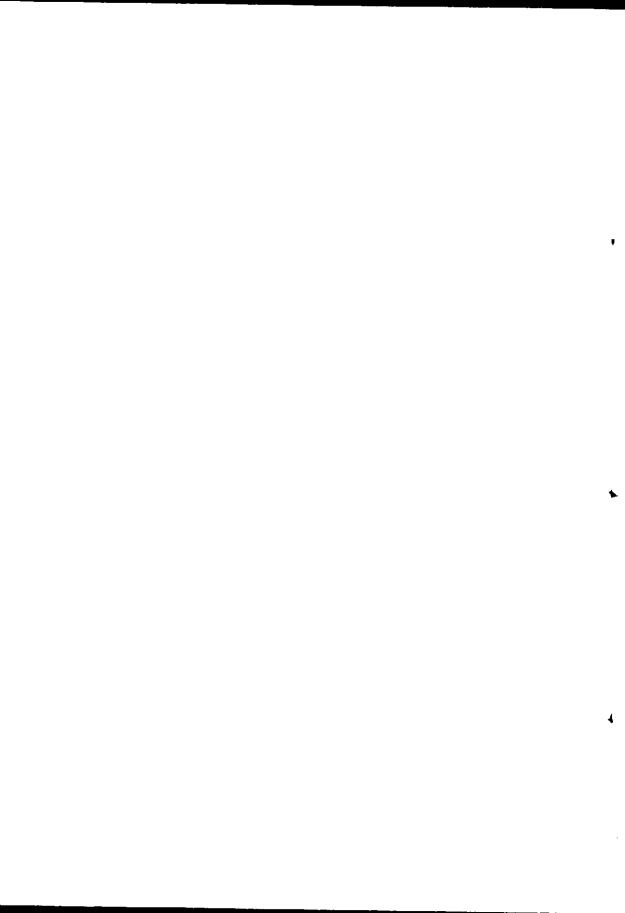
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ACKNOWLEDGEMENT

I would like to express my gratitude to Prof. Dr. H. M. Khattab, Professor of Animal Nutrition, Animal Production Dept. Faculty of Agriculture, Ain Shams University for his direct supervision, advices, valuable guidance throughout this work and revision are also deeply appreciated.

I am sincerely grateful to Prof. Dr. A. O. Sooud, Desert Research Center for Planning and Designing this work and also for his participating, facilitating and supplying all the materials for this work. His kind advice supervision and revision are also deeply appreciated.

The writer is grateful to Dr. S. M. Abdelmawla, Animal Production Department, Faculty of Agriculture, Ain Shams University for his supervision, sincere encouragement and revision this work.

Sincere thanks to all the staff of Animal and Poultry Nutrition Department, Desert Research Center for their assistance in technical work.

My deepest thanks go for my parents and my wife for their sacrifices and help. My deepest thanks extend to my brother, my sisters my son and daughter.



NUTRITIONAL PERFORMANCE OF GAOTS FED DIFFERENT TYPES OF DIET UNDER SALINITY AND WATER DEPRIVATION

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ABSTRACT

This study was carried out at Maryout Research Station, Desert Research Center on twelve bucks. The objectives were to study the effects of type of diet, water salinity and deprivation and seasonality on water intake and excretion, feed intake and digestion, nitrogen utilization, sodium (Na) and potassium (K) retention and live weight changes. Animals were randomly divided into two groups on the basis of body weight and age. Animal groups were assigned to either fresh tap water or saline water (1.0% NaCl). The fresh water group was further randomly divided into two subgroups three animals each and assigned to water deprivation treatment (daily watering VS 4th day watering periods) and so was the second group. Each subgroup was, then, assigned to three energy levels (low, medium and high) in a latin square design.

Increasing energy concentration in the ration decreased free water intake in winter than in summer, total water excretion, urinary and total nitrogen excretion, apparent (Na) retention, but increased DM, TDN and DCP intakes in summer than in winter, nitrogen digestion in winter. Goats retained (Na) in summer twice that in winter.

Palatability of salty water is more acceptable by goats in winter than in summer. Drinking saline water increased free and total water intakes, urinary and total water excretion, urinary nitrogen, (Na) intake and (Na) retention, but decreased feed intake and digestion, nitrogen retained, (K) intake and (K) retention.

Water deprivation decreased water intake in winter than in summer, faecal and urinary water, total water excretion, DM intake and digestion, DCP and TDN, live weight, nitrogen intake and faecal and urinary nitrogen, (Na) and (K) retention in winter, but increased (Na) and (K) retention in summer.

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