

**EFFECT OF FEEDING SOME HALOPHYTIC
PLANTS ON NUTRITIONAL AND
REPRODUCTIVE PERFORMANCE FOR
GROWNIN SHEEP IN SINAI**

By

AHMED RAGAB TAWFIK ASKAR

B.Sc. Agric., (Animal Production)

Ain Shams University, (1994)

A thesis submitted in partial fulfilment

Of

the requirements for the degree of

Master of Science

IN

Agriculture

(Animal Nutrition)

Department of Animal Production

Faculty of Agriculture

Ain Shams University

1998

APPROVAL SHEET

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This experiment was conducted to study the possibility of using halophytic plants in ruminants rations after treating them by proper nutritional treatments.

Four rations were formulated to be fed to 40 growing up to maturing rams (10 per each treatment). Effect on nutrients digestibility, feed and water intake, nitrogen balance and some rumen, blood and semen parameters were studied. Results indicated that ensiling the halophytes plants are suitable technique to feed ruminant animals.

Date : April 14, 1998
To : Mr. Ricardo Frohmader
From : Dr. Abd El-Rahim Sharaf
RE : Export trials of Melan Varieties

In order to implement my scope of work concerning post harvest research work of and shelif life studies on Melan varieties.

I will need to purchase the items in the attached sheet with the approximate cost of () pound.

Thanks

Sincerely,

Date : April 14, 1998
To : Mr. Ricardo Frohmader
From : Dr. Abd El-Rahim Sharaf
RE : Export trials of French bean varieties

In order to implement my scope of work concerning post harvest research work of and shelf life studies on French bean varieties.

I will need to purchase the items in the attached sheet with the approximate cost of () pound.

Thanks

Sincerely,

ABSTRACT

Ahlam Abd El-HalemEl-Shewy. Feeding lactating animals on some agricultural wastes and its effect on milk yield and composition. Unpublished Ph.D. Thesis. Animal Production (Animal Nutrition). Dept. of Animal Production, Fac. of Agric., Univ. of Ain Shams, 1998.

Low-quality roughages [banana wastes (B), wheat straw (WS) and rice straw (RS)) and dried broiler litter (BL) in proportions 100 : 0, 60 : 40 and 40 : 60 (w/w) on (wet basis) were ensiled using either whey or diluted molasses as rehydration media. The mixtures were evaluated in vitro - to chose the best combinations to apply them as large silos to provide lactating buffaloes with wastelages and to study their effects on milk yield, milk composition and some parameters of blood plasma.

The feeding trial involved five groups in which buffaloes received nil wastelages (C), 15% BLBM (T_1), 15% BLWSM (T_2), 15% BLBWH (T_3) and 15% BLWSWH wastelage (T_4) during the early lactation period.

Results indicated that feeding lactating buffaloes on wastelages increased ($P>0.05$) milk yield, 4-FCM yield and feed efficiency, while decreased ($P>0.05$) contents of milk total solids, fat and protein, however, increased ($P<0.05$) milk NPN and ash content and plasma urea, GOT and GPT.

The results of the present study concluded that used banana plant wastes with some additives in silage form succeeded to be good untraditional roughage for lactating buffaloes without any adverse effect on health or milk production.

Key words : Dried broiler litter, banana wastes, whey - ensiling wastelages - lactating buffaloes - milk production.

**FEEDING LACTATING ANIMALS ON
SOME AGRICULTURAL WASTES AND ITS
EFFECT
ON MILK YIELD AND COMPOSITION**

BY

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الزراعية وتأثيرها على انتاج اللبن وتركيبه

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LIST OF ABBREVIATIONS

AAS = Amino acids

ADL = Acid detergent lignin

ADF = Acid detergent fiber

a-m = ante-meridiem

NDF = Neutral detergent fiber

NDS = Neutral detergent soluble

NFE = nitrogen free extract

NPN = non protein nitrogen