



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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



يجب أن

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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
الأصلية تالفه

بالرسالة صفحات
لم ترد بالأصل

**PRODUCTIVITY AND NUTRITIVE VALUE OF
SOME RANGE PLANTS OF THE
NORTH WESTERN COAST**

By

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A thesis submitted in partial fulfillment
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ABSTRACT

An investigation was carried out during 1990, 1991 and 1992 seasons in Sidi-Barrani and El-Negaila locations, west of Mersa Matruh, to study the effect of location, association and growth season during whole year on the plant composition, distribution, density, coverage, fresh and dry matter production as well as plant chemical contents.

The main results obtained exerted superiority of Sidi-Barrani location in most of the studied characters than El-Negaila due to the good availability in the environmental conditions. Also, associations appeared differential response for the different studied characters, that response was affected much by the interaction between locations and associations during the different growth seasons. *Thymelaea* association grown in Sidi-Barrani exerted higher response in total coverage, frequency, fresh yield produced, crude protein, ether extract, total carbohydrate, crude fiber and phosphorus production, while that grown in El-Negaila was the highest in dry matter

production, percentage of total carbohydrates and crude fiber.

Asphodelus association in El-Negaila was higher in crude protein and ether extract percentage and that grown in Sidi-Barrani surpassed others in phosphorus percentage.

Hammada association in Sidi-Barrani increased others in abundance and potassium amounts produced, whilst that of El-Negaila was the higher in total ash production.

Salsola association in El-Negaila location increased in sodium percentage and production.

Artemisia in Sidi-Barrani was the highest in abundance and potassium percentage.

Hammada scoparia and *Asphodelus microcarpus* indicated the possibility of using in animal rations.

Key words:

Association, Climatic factors, Edaphic factors, Rainfall, Temperature, Relative humidity, Shrubs, Foliage, Annuals, Perennials, Species composition, Coverage, Abundance, Plant density, Frequency, Biological evaluation, *Thymelaea*, *Artemisia*, *Hammada*, *Salsola*, *Asphodelus*.

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APPREVIATION SHEET*

ADF	Acid detergent fibers
ADL	Acid detergent lignin
<i>ad-lib</i>	ad-libitum
CF	Crude fiber
CFD	Crude fiber digestibility
CP	Crude protein
CPD	Crude protein digestibility
CWC	Cell wall constituent
DM	Dry matter
DMD	Dry matter digestibility
DOM	Digestible organic matter
DP	Digestible protein
EE	Ether extract
<i>et al.</i>	et alii
GE	Gross energy
IVDMD	In vitro dry matter disappearance
IVOMD	In vitro organic matter disappearance
Max.	Maximum
Min.	Minimum
NBDMD	Nylon bag dry matter disappearance
NFE	Nitrogen free extract
OM	Organic matter
OMD	Organic matter digestibility
ppm	Parts per million
RUE	Rain use efficiency.
SV	Starch value
TDN	Total digestible nutrients
VFI	Volentry feed intake

*. The listed appreviations are according to the Handbook and Style Manual for ASA, CSSA and SSSA Publication, 1976.

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