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 الوثائـــــــق الاصليـــــة تالفـــة

بالرسالة صفحات لم ترد بالاصل

PRODUCING SUPERIOR HYBRIDS OF SWEET PEPPER CROP (*Capsicum annuum* L.) IN NORTH SINAI

By

Mahmoud Ibrahim Mahmoud Ibrahim

B.Sc. (Agric.). Suez Canal University, 1998.

Thesis

Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science

in

VEGETABLE CROPS

Plant Production and Protection Department

Faculty of Environmental Agricultural Sciences,

El Arish

Suez Canal University

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THESIS

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THE MASTER DEGREE
in
VEGETABLE CROPS

Supervised by

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Thesis
For The Master Degree
In
Vegetable Crops

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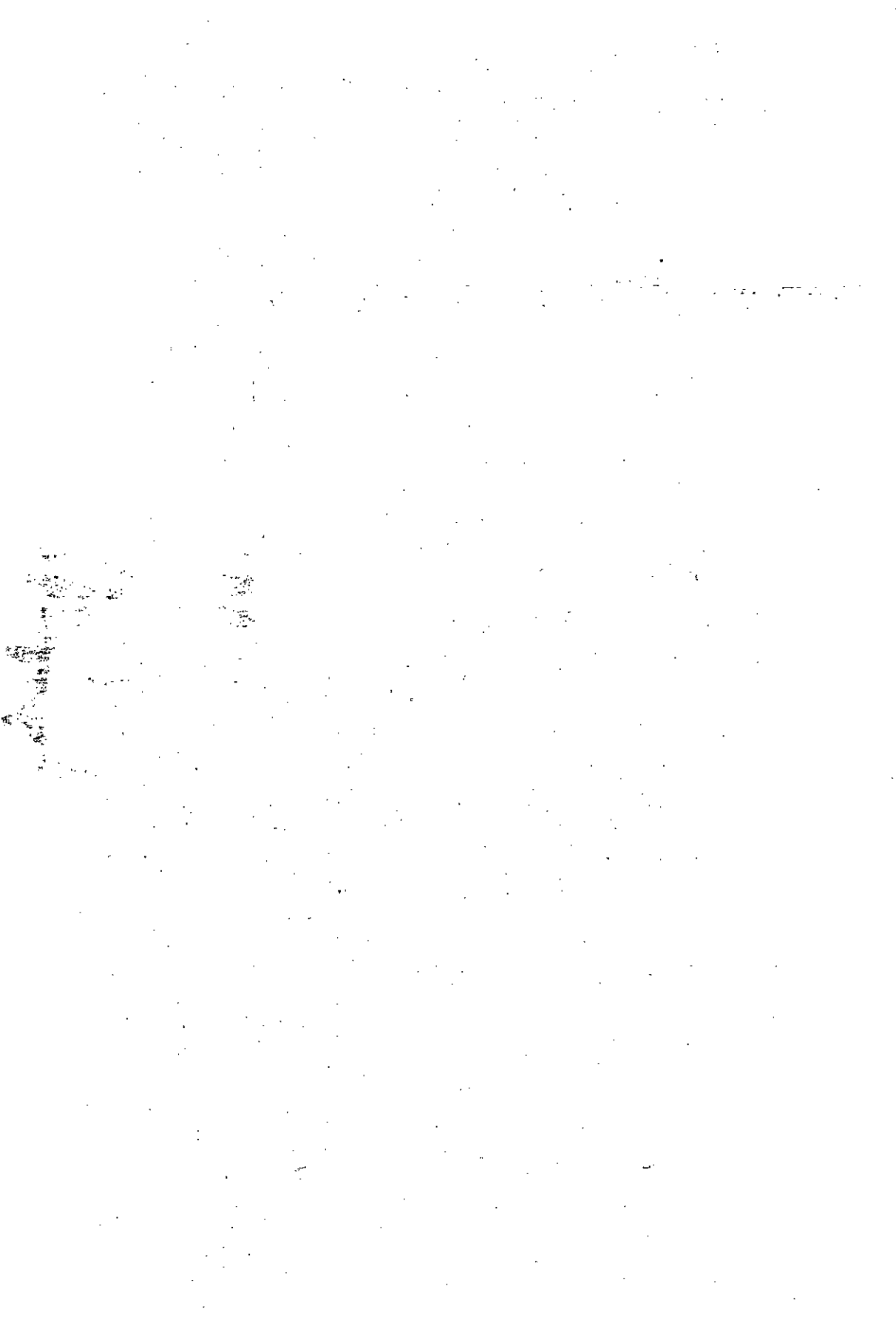

ABSTRACT

The study was carried out at the Experimental Farm, Faculty of Environmental Agricultural Sciences, El-Arish, Suez Canal University during 1999 to 2002 to produce new promising hybrids of sweet pepper suitable to North Sinai region, and to determine some useful genetic parameters of sweet pepper.

The study included six cultivars of sweet pepper introduced from different geographical regions used to produce 15 hybrids, which were all possible hybrids between them in one way, and F2 populations of these parents.

The six parents, F1 and F2 populations and the Majester F1 (check hybrid) were evaluated in 2001/2002 under the protected cultivation in plastic houses in a randomized complete block design with four replications for vegetative characters, earliness, early yield, total yield ,and fruit characteristics

The obtained results cleared that the overall mean of F_1 means surpassed parents and the check hybrid in most studied characters. Heterosis over mid-parents was significant or highly significant with positive values. Average heterosis over the better parent was none significant or had negative values for most traits. Average heterosis over the check hybrid was highly significant with positive values for many traits.

Inbreeding depression was found for many traits. Both general and specific combining ability were highly significant for most studied traits. Sweet Chinese cultivar had a high combining ability for many traits as well as California Wonder cultivar.

Heritability estimates in broad sense ranged from moderate to high for different traits. Additive variance represented a large amount of total variance. Correlation among the studied traits cleared high positive or negative correlation between many traits.