بسم الله الرحمن الرحيم

شبكة المعلومـــــات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

﴿ قـــسـم ﴾

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية تغيرات

يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %

بعض الوثائق الأصلية تالفة

بالرسالة صفحات

لم ترد بالأصـــل

COMPARATIVE PHYSIOLOGICAL AND HISTOLOGICAL STUDIES OF FLOWERING AND FRUITING ON SOME *ANNONA SP.*

By

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B. Sc. Agric. Sci. Al-Azhar Univ., (1978)

M.Sc. Agric. Botany Zagazig Univ., (1994)

Thesis submitted in partial fulfillment

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Zagazig University

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Comparative Physiological and Histological studies Of flowering and Fruiting on some *Annona sp.*

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Date of examination : 18 / 3 / 2002

Comparative Physiological and Histological studies Of flowering and fruiting in some Annona Sp.

Abstract

This study was carried out on Fenni and Abdel – Razik Annona cvs. and Balady sp. during 1995 and 1996,seasons. Some treatments including pollination (type and time), pollen grains (fresh or storage) and applination Some regulators (G A_3 , NAA and B A) were used to improve flowering and pollication in Annona trees .In addition, stages of fruit development (Growth curve) beside the histological and morphological Stages of flower bud (comparative study)differentiation in *Annona squamosa* .(Balady sp .) only also studied . The study revealed that , flowering began early in Fennicv . trees than Balady sp. or Abdel – razik cv .Flower bud of Annona passed in 3 visible stages through anthesis time i.e. slit bud , female receptive phase and male active phase . Balady sp . anthers contain the highest number of ferfile pollen grains and storage of pollen grains 16hrs. at room temp. or at 7 C° decreased pollen fertility than fresh pollens . Fruit set (%) and fruit properties significantly affected by Annona cvs ., type and time of pollination and hand self pollination was considered the proper method . Evening pollnation was more satisfactory than both morning (came after) or noon one and using fresh pure pollen grains gave the highest percentage of fruit set and fruit yield and diluted pollens improved friut shape. Spraying GA_3 at 1000 p.p.m. on flowers at anthesis 5 time at 10 days intervals inereased parthenocarpic fruit set (%) and fruit retention , Meanwhile, NAA treatments had insignificant effect and BA treatments deteriorated and shedding the flowers .Spraying GA_3 , NAA and BA at low concentration on fruitlets after 7 days from pollination 3 time at 30 days intervals improved fruit quality and GA_3 at 500 ppm . gave the best results . Fruit development (growth curve) passed in 3 visible stages of growth (rapid – slow –rapid). Flower bud of Balady sp . passed in 8 stages (morphologically) and 2 stages (anatomically) totally equal 34 days .

Under the supervision of :

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