

Sudan University of Science and Technology

College of Graduate Studies

**Effect of Fertilization and Irrigation on Yield and Quality of
Date Palm (*Phoenix dactylifera* L.) Under Northern Sudan
Conditions**

**التسميد والري وأثرهما في إنتاج نخيل البلح وجودته تحت
ظروف شمال السودان**

*A thesis Submitted in fulfillment for the requirements of the degree of
Doctor of philosophy in (Horticulture)*

By

Hussein Abdel Rahman Idris Yagoub

B.Sc. (Agric.), University of Sinnar, Sudan, 1998

M.Sc. (Agric.), University of Khartoum, Sudan, 2005

Supervisor:

Professor Dr. Elsadig Hassan Elsadig

October 2013

بسم الله الرحمن الرحيم

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الآية

قال تعالى:

{ وَهُوَ الَّذِي أَنْشَأَ جَنَّاتٍ مَّعْرُوشَاتٍ وَغَيْرَ مَعْرُوشَاتٍ
وَالنَّخْلَ وَالزَّرْعَ مُخْتَلِفًا أُكُلُهُ وَالزَّيْتُونَ وَالرُّمَّانَ مُتَشَابِهًا
وَوَغَيْرَ مُتَشَابِهٍ كُلُوا مِنْ ثَمَرِهِ إِذَا أَثْمَرَ وَآتُوا حَقَّهُ يَوْمَ
حَصَادِهِ وَلَا تُسْرِفُوا إِنَّهُ لَا يُحِبُّ الْمُسْرِفِينَ (141) }.

صدق الله

العظيم

(سورة الأنعام الآية 141)