

## *Dedication*

We dedicate this research to our Fathers Spirit,,,,,,,,

And all of our Families,,,,,,,,

All people whom they help us to arrive to this Level specially our  
department of Agronomy,,,,,,,,

Special thank to our Supervisor Prof:Yassin Dagash,,,,,

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## **Abstract**

The field experiment was conducted in the demonstration farm of Sudan University of Science and Technology Faculty of Agriculture at Shambat on summer season 2016/2017, to study the effect of nitrogen of three on sweet sorghum Plant high, Number of leaves and stem diameter

With four levels of nitrogen (0ng, 24gn, 48gn and 72gn) kg/ha the crop was planted in February in randomized complete block design with 4 replications 70 cm inter and 15 cm intra row spacing, the variety sown was Local .

The result showed that there is a significant differences between treatments on all parameters measured.

## خلاصة الاطروحة

تم إجراء التجربة في المزرعة التجريبية بكلية الدراسات الزراعية \_ جامعة السودان للعلوم والتكنولوجيا شمبات في الموسم الصيفي ٢٠١٧/٢٠١٦

لدراسة أثر معاملة محصول الذرة السكرية لاضافة اربعة مستويات

كجم/للهكتار تمت الزراعة في الصيف من النيتروجين (0ng، 24gn، 48gn و72gn)

في فبراير ٢٠١٧-٢٠١٦ بتصميم القطاعات العشوائية الكاملة في أربعة مكررات بمسافات زراعة ٧٠ سم بين السرايات و ١٥ سم بين النباتات .

وأوضحت النتائج أن هناك فروقات معنوية بسيطة بين المعاملات الثلاث هو طول الساق وعدد الأوراق وسمك الساق الذي تم قياسها.