

الاية

بسم الله الرحمن الرحيم

قال الله عز وجل:

( فَلْيَنْظُرِ الْإِنْسَانُ إِلَى طَعَامِهِ (24) أَنَا صَبَبْنَا الْمَاءَ صَبًّا (25)

ثُمَّ شَفَقْنَا الْأَرْضَ شَقًّا (26) فَأَنْبَتْنَا فِيهَا حَبًّا (27) وَعَبَّأَوْ قَضَبًّا (28)

وَزَيْتُونًا وَنَخْلًا (29) وَحَدَائِقَ غُلْبًا (30) وَفَاكِهَةً وَأَبًّا (31)

مَتَاعًا لَّكُمْ وَلِأَنْعَامِكُمْ (32))

صَدَقَ اللهُ الْعَظِيمُ

سورة عبس (الايات من 24-32 )

## **DEDICATION**

**I SEND MY DEDICATIONS TO ALL FROM MY FATHER AND MY MOTHER MY BROTHERS AND MY SISTERS**

**MY FAMILY AND MY FRIENDS**

**MY PROFESSORS COLLEGE AND MY DOCTORS COLLEGE**

**ALSO SPECIAL MY DEDICATIONS TO:**

**MY PROFESSORS AND DOCTORS DEPARTMENT AGRONOMY**

**MY FRIENDS DEPARTMENT OF AGRONOMY**

**A PARTICULARLY MY DEDICATIONS TO:**

**PROF: AHMED ALI AND MY FRIENDS IN STUDY**

**IN CONCLUSION:**

**I HOPE FROM GOD ALMIGHTY SUCESSIFULL AND HAPPINCE FOR SUDAN UNIVERSITY OF SCIENCES AND TECHNOLOGY.**

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## **ABSTRACT**

**The experiment was carried out to study the effect of irrigation intervals on the growth and yield of Broad Bean genotype (Hadeiba 93), Experimental Farm, College of Agricultural Studies, Sudan University of Science and Technology in Shambat from November 2017 to February 2018. using system of randomized complete block design(RCBD), in four replicates and three treatments (7 ,14 and21 days) .Three growth characteristics were measured : plant height ,the number of leaves per plants and the number of branches per plants and five components of productivity were measured: including number of plants per square meter, number of pods of plants per square meter, seed production per square meter,100-seedweight and productivity kilo gram per Fadden .The results showed that there were significant differences between the irrigation intervals for some of the characteristics :seeds of production per square meter, the number of pods per plants, and the yield kilo gram per Fadden. The results also showed no significant differences some characteristics: plant height, number of leaves, number of branches per plant, number of plants per square meter and the weight of 100 seed .The results showed that the irrigation interval every 7 days gave the highest productivity.**

## المستخاَص

أجريت التجربة لدراسة أثر فترات الري علي نمو وإنتاجية الفول المصري صنف ( حديبة93) بالمزرعة التجريبية كلية الدراسات الزراعية, جامعة السودان للعلوم والتكنولوجيا بشمبات.في الفترة من نوفمبر2017 الي فبراير2018. بإستخدام نظام تصميم القطاعات العشوائية الكاملة (RCBD) في أربع مكررات وثلاث معاملات هي(7,14و21يوما) ,تم قياس ثلاث من صفات النموهي: الارتفاع النبات ,عدد الاوراق للنباتات, وعدد الفروع للنباتات, كما تم قياس خمسة من مكونات الانتاجية: عدد النباتات في المتر المربع, عدد القرون للنباتات ,انتاج البذور في المتر المربع, وزن 100 حبة والانتاجية بالكيلوجرام للفدان.اظهرت النتائج وجود فروقات معنوية بين فترات الري لبعض الصفات هي إنتاج البذورفي المتر المربع, عدد القرون للنباتات,وزن 100 حبة والإنتاجية بالكيلوجرام للفدان. كما أظهرت النتائج عدم وجود فروقات معنوية لبعض صفات هي إرتفاع النباتات (سم), عدد الأوراق للنباتات، وعددالفروع للنباتات.أظهرت النتائج أن فترات الري كل 7 أيام أعطى أعلى إنتاجية.