

**The effect of genotypes (*Sorghum bicolor* L. moench)
and Time of cutting on some agronomic characteristics and
forage yield**

Mohanad A. ALSULAIMAN

Field crop department – agriculture colleges – Basrah university

SUMMARY

A field experiment were conducted at al Qurna which is located north of Basrah governorate at the Spring and autumn growing season of 2004 using four sorghum varieties (Kafir , Milo , Rabih , Arbil) and two times of cutting (at boot stages and 50% flowering).The aim was to study the effects of this factors on some agronomic characteristics and forage yield. The experimental design was a split plot design with three replication in randomized complete block design. The results showed that the varieties and time of cutting have a significant effect on all agronomic characteristic and the varieties Milo and Rabih produced higher leaf area Index 1.76 and 1.75 , green forage yield 35.94 and 36.84 T/ha , dry forage yield 7.87 and 8.36 T/ha respectively. Delay time of cutting up to 50% flowering increase all agronomic characteristics and gave leaf area Index 1.71 , green forage yield 36.10 T/ha , dry forage yield 8.23 T/ha. Significant interaction between Genotype X Time of cutting have been observed for all agronomic characteristics except for leaf area index. The Genotypes Rabih and Milo at the time of cutting 50% flowering produce higher green forage yield which was reached to 40.69 and 38.96 T/ha and dry forage yield which was reached to 10.40 and 10.37 t/ha respectively.

Keywords: *Sorghum bicolor* ;Time of cutting ; Varieties ; Frage yield