

EFFECT OF HERBICIDE AZIMSULFURON ON SOME BIOLOGICAL
CHARACTERISTICS OF RICE

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ABSTRACT

Field experiment was conducted with three replicates according to RCBD at the Mishkab Rice Research Station , Al-Najaf Province , during the growing season of 2008 to investigate the efficiency of herbicides azimsulfuron was used at rate of 25 , 50 , 75 gm / ha , while propanil and penoxsulam were used at rate 10 L / ha , 2.5 L / ha respectively on weeds and its influence on quality characteristics and rice yield . Results showed that the herbicide azimsulfuron reduced dry weight of *Echinochloa crus-galli* L. from 88 to 97 % with no significant differences with propanil and penoxsulam compared with weedy treatment . Also , results indicated that there was an increase in yield component such as number of panicles / m² and panicle length from range 48 - 58 % and 8 - 9 % respectively . However application of azimsulfuron resulted in rice yield of 6.2 - 7.6 t / ha at depending on rate application , in comparison to 6.3 , 7.0 , 2.9 t / ha obtained in propanil , penoxsulam and weedy treatment respectively.