

RESPONSE OF SUGER CANE *Saccharum officinarum* L. TO THE WEEDS CONTROL BY HERBICIDES AND ITS EFFECT ON GROWTH AND YIELD .

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ABSTRACT

One experiment was conducted in the farm of the General Company for sugar in Missan during 2001 to investigate the effects of herbicides on sugar cane *Saccharum officinarum* L. growth and stems yield and control companion weeds. To control weeds by herbicide was carried out using bentazone, paraquat, fluazifop-butyl, glyphosate, bentazone M. Complete Randomized Block Design was used with the experiment with three replications. The results showed that:-

1. application of paraquat caused a reduction in plant heights, number of green leaves and increases the number of tillers, the number of milling stems and total stems yield. Application of glyphosate or fluazifop-butyl increased the plant heights and stem diameter but reducing the number of green leaves.
2. Application of herbicides such as paraquat or glyphosate or fluazifop-butyl led to lowest weed densities which were 35.6 , 48.6 and 59.3 plant /m² respectively and achieved greater percentage of weed control represented 58 , 42.7 and 30.1 % respectively