CARBOFURAN IMPROVES UREA UTILIZATION OF SUGARCANE

Third Place, Crop and Soil Science Section, Professional Category.

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Carbofuran has been reported to have increased the uptake of N, K, Zn and other trace elements in rice and other graminacious crops. An experiment was conducted to determine its relationship to the amount of sugarcane. The treatments were: TI (100% of the recommended N w/o carbofuran 3G), T2 (100% N plus carbofuran 3G at 2.0 kg. a.i./ha), T3 (75% N plus carbofuran 3G at 2.0 kg. a.i./ha), T4 (50% n plus carbofuran 3G at 2.0 kg. a.i./ha), T5 (25% N plus carbofuran 3G at 2.0 kg. a.i./ha) and T6 (zero N plus carbofuran 3G at 2.0 kg. a.i./ha). The P_2O_5 and K_2O levels were constant in all treatments.

It was observed that under T2, T3 and T4 plant heights were the same but were significantly better than under the rest of the treatments. There was no significant differences in tiller population, except during the fifth month. In the tenth month, all the treatments resulted in same tiller population. Tonnage yield was significantly higher in T3, T4 and T5 but in picul sugar yields only T3 and T4 were statistically better than the other treatments. Rendements was not significantly affected, though there was a slight increasing trend as N was reduced.

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