

Plant Genomics

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Evaluation of irrigation in triple-cropping of sugarcane

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Sugarcane is one of the important plants in tropical and semi-tropical regions that need plentiful water, these plants cultivates in extended area in Khuzestan province of Iran. In this study, triple-cropping of sugarcane cultivar Cp69-1062 on the ridge was evaluated and compared to double-cropping of sugarcane cultivar Cp69-1062 on the ridge that is current planting region. Results showed that in spite of higher dense planting in triple-cropping, in leaf sheath moisture, leaf nitrogen, ridge EC, qualitative situation of cultivar, plant height, stem diameter and number of shoots, there was not any significant difference between triple-cropping with double-cropping of sugarcane on the ridge. However, the difference between numbers of stem per m² in triple-cropping with double-cropping of sugarcane was significant at 5% level. Also, water use efficiency (WUE) and the mean yield of sugarcane and sugar in triple-cropping were more than double-cropping of sugarcane.

Biography

Jamal Saudi is currently a PhD student in Soil Fertility & Chemistry from Islamic Azad University (IAU), Khuzestan Science & Research Branch. He has completed his MSc in Agriculture Engineering from Islamic Azad University, Khuzestan Science & Research Branch, in 2011 and was graduated in Agrology from Shahid Chamran University of Ahvaz in 1992. He is presently the Director of Applied Research at Dehkhoda Sugarcane Agro-Industry Co, in Iran.

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