RESEARCH ARTICLE

SCREENING OF MICROBIAL CONSORTIA ON SORGHUM CROP UNDER GREEN HOUSE CONDITIONS

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Abstract: Screening of three different plant growth promoting microbial consortia was carried under green house conditions on sorghum (CSV-27). Different plant growth parameters like plant height, shoot weight, root weight, total dry weight and nutrient uptake were estimated during the screening. Microbial population was estimated at different intervals of crop growth. Microbial consortia-3 (*Azotobacter*, *Azospirillium,* P-solubilizer, K-releaser, Zn-solubilizer and PGP isolate) inoculated treatment T_3 performed better and improved all the plant growth parameters like plant height, shoot weight, root weight, total dry weight and nutrient uptake compared to the control and other two microbial consortia inoculated treatments.

Keywords: Microbial consortia, *Azotobacter*, *Azospirillium,* P-solubilizer, K-releaser, Zn-solubilizer

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