EFFECT OF AZOSPIRILLUM BRASILENSE AND PSEUDOMONAS STRIATA AND CARBOFURAN SINGLY OR IN ASSOCIATION ON THE YIELD OF SORGHUM BICOLOR

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ABSTRACT – Inoculation with both the strains of Azospirillum brasilense I (201) and II (251) resulted in the increase in the number of Azospirillum in the rhizosphere. At harvest maximum population was 12.4x10^5 g) dry soil with A. brasilense (201), and (251) maximum population 19.8x10^7 g/dry soil was obtained with carbofuran + Azosprillium brasilisense strain (251). A. brasilense II Strain 251 gave the highest height 69.5cm and leaf area 31.5 cm^2 at 40 days of growth. Dry weight of leaf 3.10g, and dry weight of stem 2.80g, 2.77% Nitrogen in leaf was highest in the treatment with carbofuran + A. brasilense II-251, +P. striata. This treatment also increased the height, dry weight of stem and leaves also significantly. A. brasilense strain 251 proved better than strain 201.

Keywords: Azospirillum, Pseudomonas, Carbofuran.