IMPACT OF DIFFERENT GENOTYPES ON GROWTH AND YIELD PARAMETERS OF ELEPHANT FOOT YAM (AMORPHOPHALLUS COMPANULATUS DECNE.) UNDER CHHATTISGARH PLAINS

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Abstract: The experiment was conducted at Research and Instructional Farm, Department of Horticulture, College of Agriculture, Indira Gandhi Krishi Vishwavidyalaya, Raipur (Chhattisgarh) during the year 2010-11 in factorial randomized block design with 6 treatments which were replicated three times with an objective to study the effect of different genotypes on growth and yield on elephant foot yam. The treatment consisted of six genotypes of elephant foot yam viz; IGAM-1, IGAM-2, IGAM-8, NDA-2, TRC-Badama and Sree Padma. Data revealed that genotype G1(NDA-2) proved its superiority followed by G1 (IGAM-1), G2 (IGAM-2), G3 (IGAM-8), G4 (TRC-Badama) and G5 (Sree Padma) for sprouting per cent, number of stems/plant, canopy spread (E-W and N-S), size of corn (diameter), number of cornels/plant, weight of cornels/plant, corn yield (kg/plant), total corn yield (µ/ha) and dry matter per cent of corn. Genotype G2 (IGAM-2) superior for plant height and average weight of corn, genotype G3 (IGAM-8) superior for girth of stem, genotype G5 (TRC-Badama) superior for days to first emergence and genotype G6 (Sree Padma) superior for days to senescence.

Keywords: Genotype, elephant foot yam, yield

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