

CHARACTER ASSOCIATION AND PATH COEFFICIENT STUDIES IN SWEET POTATO [*IPOMOEA BATATAS* (L.) LAM.] GENOTYPES

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Abstract: Correlation coefficient analysis revealed that tuber yield⁻² showed significant positive correlation with vine weight⁻² and marketable tuber yield⁻² at both genotypic and phenotypic level, suggesting that selection of these characters may be useful for the development of ideal plant type of sweet potato for the Chhattisgarh plains. Path coefficient analysis revealed that marketable tuber yield⁻², biological yield⁻², tuber diameter and dry matter per cent of tuber, neck length of tuber, tuber length and vine had positive direct effect on tuber, and therefore these traits could be utilized as selection criteria in sweet potato.

Keyword: Sweet potato, *Ipomoea batatas*, Correlation, Path coefficient

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