

HETEROSIS FOR TUBER YIELD AND ITS COMPONENTS IN SWEET POTATO (*IPOMOEA BATATAS* (L.) LAM.

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Abstract: In a line (6 x 4) study degree of heterosis varied from cross to cross for all the traits. The highest relative heterosis for tuber yield was observed in the progeny of IGSP-16 x Indira Madhur (39.45%). None of the progenies exhibited significant positive heterobeltiosis for tuber yield per plant whereas, fifteen progenies showed significant positive heterobeltiosis for number of tuber per plant. Heterosis was observed for number of tubers per plant and number of leaves per plant. While, low heterosis value were observed for tuber yield per plant, average weight of tubers, harvest index and number of veins per plant; moderate heterosis was observed for days to maturity, vein height, fresh weight of top per plant and dry matter content. Overall, frequency of heterotic crosses was higher among the crosses involving parents with average gca effects.

Keywords: Heterosis, *Ipomoea batatas*, Tuber

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