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**STANDARDIZATION OF *IN SITU* GRAFTING TIME IN MANGO (*Mangifera Indica* L.) UNDER RAINFED CONDITIONS IN THE LOWER SHIVALIKS OF PUNJAB**

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**ABSTRACT**

The present studies were conducted at village Kasauli in Jainti Devi-Ki-Rao watershed under on farm applied research scheme for two years to find out the suitable time for higher success of in-situ grafting in mango. Soils were sandy loam, neutral in pH and with slope 0-1%. Seedling mangos were planted in 45 cm<sup>3</sup> pits filled with top soil and FYM in the ratio of 3:1. Dushehri mango scion buds were grafted on these seedling mangos, when seedlings were of two years old. Type of *in situ* grafting was side grafting which was done in two different months i.e. May, totally dry month and July with moderate temperature and relative humidity. The observations recorded on grafts success rate and shoot growth under rainfed conditions revealed that the highest success was in the month of July( 60-85%) and least in May (20%). Shoot growth was also found maximum in the month of July (93 cm height and 1.9 cm shoot girth) as compared to the month of May which is due to moderate climate. On the basis of these studies, it is concluded that July month for in-situ grafting in Mango is most suitable for achieving higher success and subsequent growth instead of commonly practiced month of May under rainfed conditions in the lower Shivaliks of Punjab.