Effect of grafting height and cultivars on the performance of soft wood grafting in mango

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Abstract: A field experiment was conducted at Bihar Agricultural College, Sabour, Bihar during 2008-09 to find out the effect of grafting height and cultivars on performance of softwood grafting in Mango. Maximum sprout initiation days 12.11 and 12.13 were registered under cultivars of Dudhia Maldah and when performed at 25 cm grafting height, respectively. However, the maximum success and survival percentage were noticed in Maldah followed by Amrapali whereas the minimum were in Chousa. Interaction effect between cultivars and grafting height on survival percentage attained their maximum when grafting was performed at 100 cm height. Similarly, the linear and radial growth of bud in case of cultivar were achieved maximum 12.23 cm and 1.78 cm by Zardalu and Mahmood Bahar, respectively whereas grafting at different height, the maximum linear length of 13.11 cm and radial growth of bud 1.86 were recorded when grafted at height of 100 cm and 50 cm, respectively. Moreover, maximum number of leaves 14.05 was found in Mahmood Bahar and minimum 11.93 in Prabha Shankar. As regard the grafting at different height, maximum number of leaves was observed when grafting was performed 100 cm height.

Key words: Mango, Cultivars, Root stocks, Grafting height

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