

**DEPARTMENT OF HORTICULTURE
N.D. UNIVERSITY OF AGRICULTURE & TECHNOLOGY
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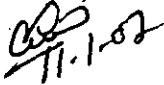
Thesis title : Standardization of Different Propagational Techniques in Bael (*Legle marmelos* L. Correa)

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ABSTRACT

Field experiments were conducted in Randomized Block Design (Factorial) with three replications at Main Experiment Station, Department of Horticulture, NDUAT, Kumarganj, Faizabad (U.P.) during 2004-05 and 2005-06. The treatment consisted 32 combinations using **two** varieties, namely, NB-5 and NB-7, **four** duration, i.e., last week of June, July, August and September and **four** methods of propagation, i.e., patch budding, softwood grafting, scion shoot containing, 2 buds, 3 buds and 4 buds, respectively. The varieties did not differ significantly among themselves for all the characters during both the years. The minimum days taken in callusing and sprouting, and maximum per cent success, length of sprouted graft, number of leaves, number of branches, diameter of graft shoot and per cent survival were recorded in last week of June and height of graft, girth of stock and growth rate of graft plant in last week of July due to practice of patch budding during both the years. However, in case of softwood grafting, scion shoot containing 2 buds, minimum days taken, in callusing and sprouting and maximum height of graft plant, girth of stock, diameter of graft shoot, per cent survival and growth rate, were recorded in last week of July and per cent success, length of sprouted graft, number of branches- with scion shoot containing 3 buds, number of leaves- scion shoot containing 3 buds, in last week of August. While, softwood grafting, scion shoot containing 4 buds, was totally failed in all the month during both the years (2004-05 and 2005-06).


(J. Prasad)


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