

STUDIES ON DIFFERENT METHODS AND TIME OF GRAFTING IN WALNUT (JUGLANS REGIA L.) UNDER DIFFERENT GROWING CONDITIONS

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ABSTRACT

To know the response of different grafting methods under different growing conditions at different time, a field experiment was conducted at the Fruit nursery, Department of Fruit Science, V.C.S.G Uttarakhand University of Horticulture and Forestry, Bharsar, Uttarakhand during 2015-2016. The experiment was laid out in Randomized Complete Block Design (Factorial) comprised of eighteen treatments combinations and three replications. Among all the treatments cleft grafting under polyhouse conditions during February performed best. The cleft grafting under polyhouse condition during February gave earliest sprouting of grafted plants (40.38 days) with maximum number of leaves per graft (114.47), number of branch per grafted plant (16.60), minimum dead sprouted grafts (40.38 %), maximum saleable plants (91.40%), maximum survival of grafts (38.87%), longest shoots (68.49 cm), maximum shoots diameter (0.97 cm) and maximum leaf area (31.75 cm²). The minimum dead graft after sprout (15.46 %) was recorded in veneer grafting under polyhouse in February.

KEYWORDS: Methods, time, conditions, grafting, walnut