

EFFECT OF DIFFERENT CONCENTRATION OF IBA ON ROOTING OF PLUM (*PRUNUS DOMESTICA* L.) CUTTINGS CV. SANTA ROSA UNDER VALLEY CONDITION OF GARHWAL HIMALAYA

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Abstract: A field investigation entitled "Effect of Different Concentration of IBA on Rooting of Plum (*Prunus domestica* L.) Cuttings cv. Santa Rosa under Valley Condition of Garhwal Himalayas" was conducted during winter season 2015-16 at orchard Section, Horticultural Research Centre and Department of Horticulture, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand, India. The cuttings treated with 2500 ppm IBA showed the maximum number of sprouted cuttings (6.67), minimum number of un-sprouted cuttings (1.67), minimum number of dead cuttings (1.66), maximum number of sprout (10.53), length of sprout (20.66 cm), diameter of sprout (0.41 cm) number of leaves on new shoots (81.90 cm), maximum percentage of rooting (73.33 %), number of primary roots (42.80), number of secondary roots (91.40), length of longest root (28.12 cm), diameter of thickest root (0.21 cm), fresh weight of roots (1.88 gm) and dry weight of roots (1.02 gm). On the basis of result achieved in the present study, it can be concluded that among the different concentration of IBA, IBA @ 2500 ppm may be suggested for best shoot and root growth of plum cv. Santa Rosa under valley condition of Gharwal Himalaya.

Keywords: Cutting, Diameter, Rooting, Percentage, Investigation, *Prunus domestica*

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