



Effect of Planting Season, Interval and Nitrogen Fertilizer on Survival and Growth of *Populus deltoides* Under Degraded Sites of North Western Himalayas

Tahir Mushtaq, Rakesh Banyal and Mir Awsaf Ahmad

Sher-e-Kashmir University of Agriculture and Technology, Shalimar, Srinagar 190 025, India E-mail: tahirmushtaq333@gmail.com

Abstract: The existing land of the experimental site had three types of land problems amely: degraded underutilized (scrub dominated), degraded pastures/grazing lands, barren rocky/stony waste. Therefore, Two planting seasons, three planting intervals and four nitrogen levels were analyzed for survival and growth of plantation. The autumn planting was better with respect to survival and growth parameters compared to spring planting. The planting interval I (15th Nov. to 30th Nov., 2013 in autumn planting and 15th Feb. to 28th Feb., 2014 in spring planting) showed better results for survival and growth compared to II and III. Survival and growth was higher in N₂ @ 150 Kg ha⁻¹ compared to 100 and 200 kg ha⁻¹.

Keywords: Populus deltoides, Survival, Growth, Season, Plantation, Nitrogen