



Effect of Tree Spacing and Organic Manures on the Seed Production of *Calendula officinalis* L. under *Grewia optiva* Drummond. based Agroforestry System

Prem Parkash, K.S. Pant and Rajeev Dhiman

Department of Silviculture and Agroforestry

Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan-173 230, India

E-mail: pprakash107@gmail.com

Abstract: Seed production parameters of *Calendula officinalis* were suppressed under the close spacing and these parameters were highly influenced by the *Grewia optiva* trees in addition to application of organic manure. Maximum number of seeds and higher seed yield plant⁻¹ was recorded in open condition as compared to agroforestry system. Organic manure enhanced the seed yield both in open condition and within agroforestry system, however 1,000 seed weight was recorded more in agroforestry system than that of open condition (control). Integrating winter annual flower crop with *Grewia optiva* offers an excellent opportunity for diversification and more income generation than the monoculture.

Key Words: Seed production parameters, *Calendula*, *Grewia optiva*, Spacing, Manures
