

Title Effect of girdling, thinning and GA3 on fruit growth, yield, quality and shelf life of grapes (*Vitis vinifera* L.) cv. Perlette

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Abstract

Growth pattern of the grapes cv. Perlette revealed that berry shows double sigmoid growth pattern and takes 69 days after fruit set (DAFS) to mature under agroclimatic conditions of Jammu. Girdling + 40 ppm GA₃ proved most effective in increasing bunch size, bunch weight and yield while as quality of grapes in terms of TSS, acidity, TSS / acid ratio and reducing sugars were significantly improved. During storage, at room temperature, minimum physiological loss in weight (PLW) was observed with girdling + 40 ppm GA₃ thus extending shelf life up to three days.