

Pengaruh Jarak Tanam Dan Pemangkasan Cabang Terhadap Produksi Buah Melon (*Cucumis melo* L.) Galur Hasil Persilangan ST 11 Dengan R 02. *The Effect of Plant Spacing and Pruning Branches On Melon (*Cucumis melo* L.) Fruits Production which Line Result from Crossing of ST 11 with R 02.* (Dr. Ir. Rahmat Ali Syaban, M.Si.) as an advisor

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ABSTRACT

Comparing between profit and loss in melon farming is needed to get maximum profit with minimum capital. To get maximum profit, fruit production and total population of melon plant must be optimal. To maximize fruit production, this research applying of plant spacing and pruning branches. This Research was carried out on October 2019 until January 2020 in Nglawak Village, Sub-district Kertosono, District Nganjuk, using factorial RCBD (Range Complete Block Design) with four replication. First factor is plant spacing with 3 levels that are J1 (40 cm × 50 cm), J2 (50 cm × 60 cm) and (60 cm × 70 cm). Second factor is pruning branches with 2 levels that are C1 (pruning 1 primary branch) and C2 (pruning 2 primary branches). The observed parameters are fruit diameter, fruit weight and fruit production per hectare. The research result showed that plant spacing have a real effect in all observation variables. The highest fruit yield per hectare is at level J1 (53,13 tonnes). While in pruning branches and interaction of both factors have not significant effect on all of the observation variables.

Key word: melon, plant spacing, pruning branches