

P-92

**The capability of fruit set of some sour cherry cultivars (*Prunus avium* L)**

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**Abstract**

The objective of this study was to determine the capability of fruit set of 9 sour cherry cultivars. Two separated factorial experiments based on completely randomized design were carried out during 2008 & 2009. Flowers of each cultivar isolated and pollinated with the pollen grain of pollen donor cultivars. Arc-sinus transformation was carried out on the data of final fruit set percentages. In the case of open pollination, average fruit set of all examined cultivars was (10.6), compare with artificial self pollination (9%) and natural self pollination (2%). *Debreceni biterm* with more than 90% overlap of flowering time and 36.9% fruit set in 2008 was the best pollen donor for other sour cherry cultivar. The results of reciprocal cross pollination will be discussed.