

## **Effect of cane diameter on fruitfulness of Sultana buds**

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The *Vitis vinifera* cv. Sultana is one of the world's most important cultivar for its seedless characteristic.

This cultivar has been studied by many researchers in term of its different aspects. Low fruitfulness is its major problem. An important factor for improving this characteristic in grapevine specially cv. Sultana, is to choose fertile canes during pruning time. This research was conducted to study the relationship between vegetative vigor and fruitfulness.

In this respect, studies were set up in greenhouse as a factorial experiment using completely randomized design during 1993 and 1994. The canes with different diameters (8-9.5, 9.5-11, 11-12.5, 12.5-14 and 14-15.5 mm) and bud position (3rd and 6th bud) were regarded as treatment factors.

The results showed that, increasing cane diameter and bud position, raised the amount of fruitfulness.