

The Effects of Different Level Cluster Tip Reduction and Foliar Boric Acid Applications on Yield and Yield Components of Italia Grape Cultivar

Authors : A. Akin

Abstract : This study was carried out on Italia grape variety (*Vitis vinifera* L.) in Konya province, Turkey in 2016. The cultivar is five years old and grown on 1103 Paulsen rootstock. It was determined the effects of applications of the Control (C), 1/3 Cluster Tip Reduction (1/3 CTR), 1/6 Cluster Tip Reduction (1/6 CTR), 1/9 Cluster Tip Reduction (1/9 CTR), 1/3 CTR+Boric Acid (BA), 1/6 CTR+BA, 1/9 CTR+BA, on yield and yield components of the Italia grape variety. The results were obtained as the highest fresh grape yield (4.74 g) with 1/9 CTR+BA application; the highest cluster weight (220.08 g) with 1/3 CTR application; the highest 100 berry weight (565.85 g) with 1/9 CTR+BA application; as the highest maturity index (49.28) with 1/9 CTR+BA application; as the highest must yield (685.33 ml/kg) with 1/3 CTR+BA and (685.33 ml/kg) with 1/9 CTR+BA applications. To increase the fresh grape yield, 100 berry weight and maturity index in the Italia grape variety, the 1/9 CTR+BA application can be recommended.

Keywords : boric acid, cluster tip reduction, Italia grape variety, yield, yield components

Conference Title : ICAEABP 2017 : International Conference on Agriculture Engineering, Agricultural Biotechnology and Production

Conference Location : Madrid, Spain

Conference Dates : March 26-27, 2017