

An investigation on frost resistance of some grape cultivars

R. Jalili

Dept. of Horticulture, College of Agriculture, Urmia University, Urmia.

Frost resistance of five grape cultivars (Khalili, Dashghereh, Husseiny, Round seedless and Sahebi) was studied in 1993 in Urmia University vineyards. Experiments were conducted using complete randomized block design with three replications. Cuttings of cultivars were treated at -20°C for 48 h. Buds were subjected to freezing temperature from 0°C to -20°C , lowering by $5^{\circ}\text{C}/\text{h}$. The results showed that frost resistance of bud were different between cultivars and differences were significant. Minimum freezing injuries were observed in cv. Dashghere and maximum freezing injuries were observed in cv. Husseiny. Frost resistance of cultivars were different according to their sampling date. All cultivars were definitely injured by cold treatment in November but freezing injuries were minimum in February.