

The effect of suitable soil cover height for dwarf wire trellis grape in the research station of Khalat Poushan, Tabriz

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The effect of 3 soil cover heigh (7,14,21 cm and control without soil cover) for prevention of the winter frost damage on the 3 grape cultivars including : Sultana, Fakhri and Khalili was investigated. The experiment was conducted on 23 years old grape vines at Khalat poushan research station of Tabriz University.

The study was a factorial experiment in completely randomized design with 3 replication, consists of 2 factors , cultivars in 3 levels (Sultana, Fakhri, Khalili) and soil cover height in 4 levels (0,7,14,21cm). In this experiment 21 cm soil cover showed the least frost damage and the greatest sprouting reduction and control presented the greatest frost damage and the least sprouting reduction. Sultana was the tender and Fakhri was the most resistant Cultivar against the winter frost damage.

Determination of temperature was carried out at soil surface and in depth of 7,14 and 21 cm. This experiment was done with automatic maximum- minimum German thermometers from December 1993 to March 1994.