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Effect of potassium silicate as anti-transpiration on growth, essential oil of chervil plant under Egyptian conditions

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Abstract: A pot experiment was carried out on chervil (*Anthriscus cerefolium*) at National Research Centre Farm, Giza Governorate, in two successive seasons 2014 and 2015 to evaluate the effect of soluble potassium silicate applied to chervil plant to reduce amount of irrigation water, potassium silicate was spraying on vegetative growth twice before every harvest foliar sprays was 1000 ppm level, and the irrigation intervals was (3,4 and 5 days). Untreated plants sprayed with distilled water were used as control. The results showed that potassium silicate was anti-transpiration material and reduced the effect of water stress on plant growth and yield of chervil plant.

Keywords: chervil, Water stress, essential oil, potassium silicate, anti-transpiration.

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