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BEHAVIOUR OF FLAME SEEDLESS GRAPEVINES TO FOLIAR APPLICATION OF SALICYLIC ACID BY

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ABSTRACT

This study was carried out during 2015 and 2016 seasons to examine the effect of different concentrations (50 to 200 ppm) and frequencies of applications (once, twice or thrice) of salicylic acid on some vegetative growth characteristics, vine nutritional status, yield as well as physical and chemical characteristics of the berries in grapevine cv. Flame .

Treating the vines with salicylic acid at 50 to 200 ppm once, twice or thrice was materially accompanied with enhancing all growth aspects, pigments, nutrients, berry setting, berries colouration %, yield and both physical and chemical characteristics of the berries relative to the control treatment. the promotion on these parameters was in proportional to the increase in concentrations and frequencies of application,. Meaningless promotion on such parameters was observed with increasing concentrations of salicylic acid from 100 to 200 ppm and frequencies of application from twice to thrice.

From economical point of view , the best results with regard to yield and quality of Flame seedless grapes were obtained due to treating the vines twice at growth start and again just after berry setting with salicylic acid at 100 ppm.

Key words: berries quality, concentrations, Flame seedless grapevines, growth , salicylic acid, yield ,frequencies.