



Journal

J. Biol. Chem.

Environ. Sci., 2017,

Vol. 12(1): 559- 576

www.acepsag.org

EFFECT OF FOLIAR APPLICATION OF MORINGA OLEIFERA EXTRACT ON FRUITING OF SUPERIOR GRAPEVINES

Asmaa,A.I

Viticulture Res.Dept.Hort.Res.Instit.ARC,Giza,Egypt.

ABSTRACT

This study was carried out during 2014 and 2015 seasons to examine the effect of using Moringa Oleifera extract once at growth start, twice at growth start and again just after berry setting or thrice at the previous two dates and at one month later at 0.05 to 0.2% on growth ,vine nutritional states ,yield and berries quality of Superior grapevines.

Treading the vines once ,twice or thrice with Moringa plant extract at 0.05 to 0.2% was accompanied with enhancing all growth aspects , different nutrients and plant pigments ,berry setting %,yield as well as physical and chemical characteristics of the berries relative to the check treatment the promotion on these parameters was measurably associated with increasing concentrations and frequencies of application . Increasing concentrations from 0.1 to 0.2% and frequencies from twice to thrice had no substantial promotion on the aforementioned characteristics. From economical point of view , it is suggested to use Moringa Oleifera extract twice (growth start and again just after berry setting) at 0.1% for improving yield and berries quality of Superior grape vines .

Key words : berries quality, concentrations, frequencies,Moringa Oleifera, Superior grapevines , yield.