



## THE EFFECT OF CHEMICAL AND AGROTECHNICAL METHODS OF WEED CONTROL IN GRAPEVINE CULTIVATION

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**Abstract:** *The purpose of this work is to identify the most effective chemical and agrotechnical methods for weed control in a vineyard. Many of the weeds in vineyard plantations are difficult to combat due to their perenniality and frequency of occurrence. To achieve optimal weed control, we used various experimental variants, using herbicides with manual hoeing. Our best results in weed control were recorded in the experimental variants treated with Roundup Classic Pro (3 l/ha) and Taifun 360 SL (3 l/ha).*

### • Introduction

The purpose of this work is to identify the most effective chemical and agrotechnical methods for weed control in a vineyard. A good management program for weed control requires the viticulturist to take into account several stages: identifying the spectrum of weeds present, identifying the problem weeds and choosing control methods.

### • Material and method

To achieve optimal weed control, we used various experimental variants, using the following herbicides: Taifun 360 SL (3 l/ha), Pantera 40 EC (3 l/ha), Glyphosate (3 l/ha), Roundup Classic Pro (3 l/ha), Dicopur Top 465 SL (1 l/ha), Lontrel 300 (0.5 l/ha) with manual hoeing.

### • Results and discussions

Many of the weeds in vineyard plantations are difficult to combat due to their perenniality and frequency of occurrence: Sorghum halepense, *Agropyron repens*, *Cynodon dactylon*, *Cirsium arvense*, *Erigeron canadensis*, etc. The best results in weed control were recorded in the experimental variants treated with Roundup Classic Pro (3 l/ha) and Taifun 360 SL (3 l/ha).

### • Conclusions

In grapevine cultivation, this mixed approach ensures crop health through optimal weed control.