

October 17, 2014

Case Study of a Cabernet Franc Vineyard Treated with Unleash™



Unleash™-Treated Cabernet Franc Vines

I. Introduction

Cabernet Franc is one of the most popular varieties of dark grapes. It's used in the production of both cabernet and merlot wines by blending with Cabernet Sauvignon grapes. A grower with a 30 hectare vineyard in Israel did a trial to determine the effectiveness of **Unleash™** for both grape yield and quality.

II. Test Process

- A block of 5 lanes of **Cabernet Franc** grapevines were treated with **Unleash™** in one single application at beginning of spring, out of a field of some 30 hectares. A nearby block of 5 lanes were used as the untreated control.
- All five lanes of Unleash™-treated vines were harvested with the clusters counted and weighed. The untreated control block was also counted and weighed.
- The farmer noted that he has seen low yields in this plot but did not yet know the cause of this low production.



- Treated Area:
 - Five lanes
- Unleash™ Application:
 - Single application
 - Application date March 2014
 - Amount applied: 1 liter per acre
- Harvest:
 - August 28, 2014
 - September 4, 2014

III. Results

Untreated Control

Lane Number	Number of Clusters	Overall Weight (g)
202	182	14340
203	150	14550
204	142	14650
201	148	13700
205	128	12400
TOTAL	750	69,640

Unleash™-Treated

Lane Number	Number of Clusters	Overall Weight (g)
209	222	16860
207	167	16200
208	130	15650
210	135	15850
212	184	18900
TOTAL	838	83,460



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IV. Conclusions

Unleash™-Treated Grapevines

	Unleash™ Treated	Untreated Control	% Difference
Number of Clusters	838	750	+11.7%
Average Cluster Weight	99.5 g	92.8	+7.2%
Total Yield	83,460 g	69,640 g	+19.8%

- **Unleash™** treatment increased the total yield in Cabernet Franc grapevines by 19.8% over untreated vines.
- **Unleash™** treatment increased the total number of clusters by 11.7% and the average cluster weight by 7.2% over untreated vines.
- Taken together, this indicates that the increased yield in Unleash-treated grapevines is due to both (1) a greater number of grape clusters; and (2) an increase in the average cluster weight.