Research bulletin

Tivano

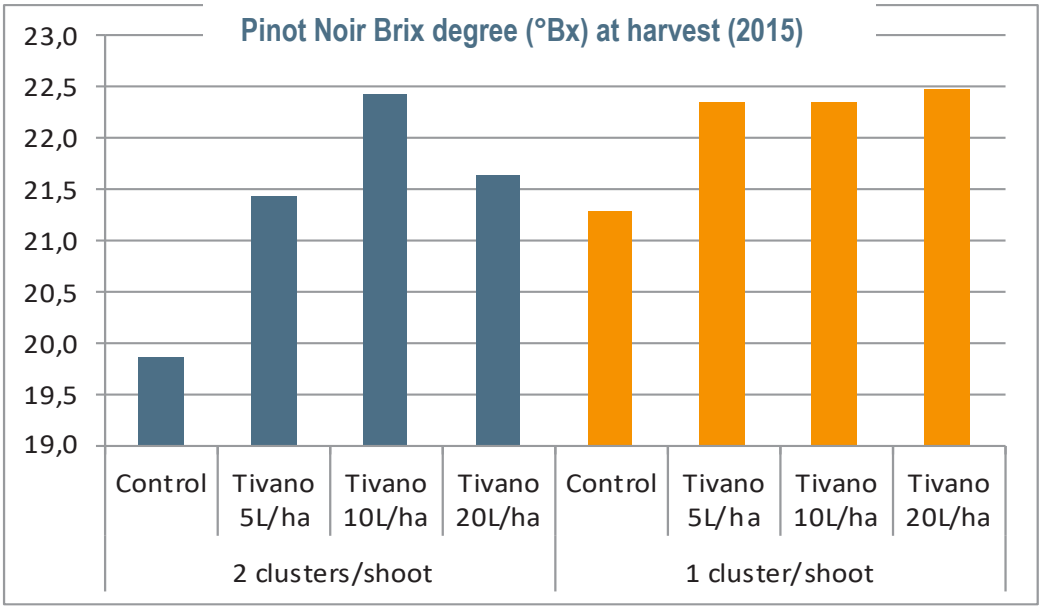
Fungicide & Bactericide

Evaluation of the impact of Tivano on quality parameters of grapes

Tivano maintains Brix level when crop load is doubled

RESULTS 2015

- Variety: Pinot Noir
- Location: Palmyra Vineyards, Niagara region, Ontario
- Comparative treatments: 3 rates of Tivano (5, 10 and 20 L/ha) combined to 2 thinning managements: 1 or 2 clusters per shoot
- Experimental device: randomized complete block design (4 replicates)
- Spray volume: 500L/ha
- Treatments frequency and interval : 4 comparative treatments and 14 days interval which begins 2 weeks after petal fall
- Maintenance: Conventional disease management and complete fertilisation program



Unthinned shoots with Tivano treatments had comparable Brix degree than the thinned shoots without Tivano

Significant difference is observed between control (2 clusters / sprout) and other treatments for Brix level at harvest (p = 0.04; 19.9 vs 22.0 °Bx) as well as total acidity (p= 0.02; 8.38 vs 7.54 g/L)

Updated: 16-01-2018

AEF GLOBAL Biopesticides

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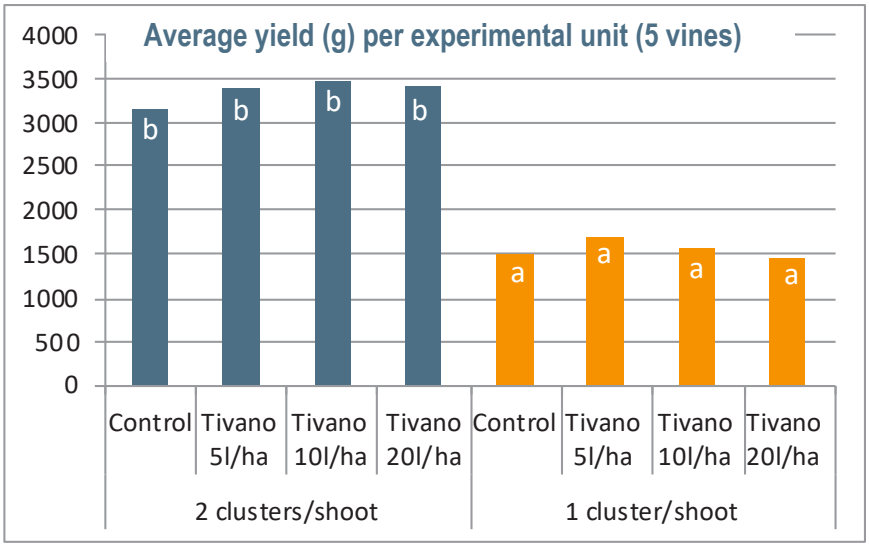
The increase of the Brix degree is not caused by a decrease of the yield.

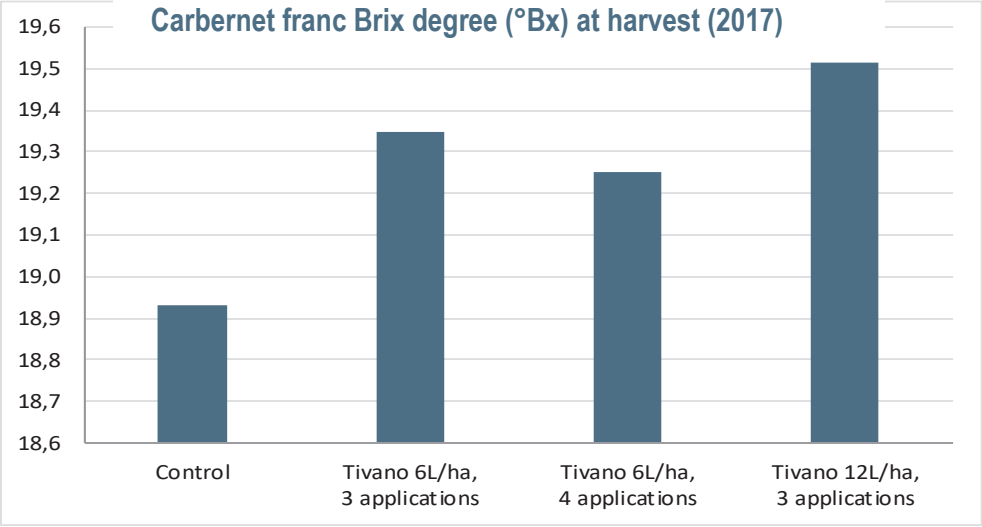


Means not followed by a common letter are significantly different (P=0.05) as determined by Tukey test.

Phenolic compounds analysis of the berries made by ETS Laboratories in California did not show significant difference between the following compounds: Catechin, Quercetin, Glycosides, Tannins, Polymeric anthocyanin, Total anthocyanin, Catechin/Tannins ratio and Polymeric anthocyanin/Tannins ratio.

RESULTS 2017

- Variety: Cabernet franc
- Location: Niagara region, Ontario
- Comparative treatments: 2 rates of Tivano (6, 12 L/ha) with 3 or 4 applications
- Experimental device: randomized complete block design (8 replicates)
- Spray volume: 500L/ha
- Treatments frequency and interval : 3-4 comparative treatments and 14 days interval which begins 4 weeks after petal fall
- Maintenance: Conventional pest management and complete fertilisation program



Significant difference is observed between control and other treatments for Brix level at harvest ($p = 0.0163$). No difference for pH ($p = 0.4927$) and titratable acidity ($p = 0.8939$)

The low rate of Tivano applied 3x or 4x had comparable Brix degree at harvest.

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