



Vineyard in an organic production system

Aim of the trial

The aim of the trial is to test a BMS MN foliar nutrition program in an organic vineyard.

General information

Conditions of the trial:

Trial location: France – Rhône-Alpes
In cooperation with: Coopérative du Nyonsais

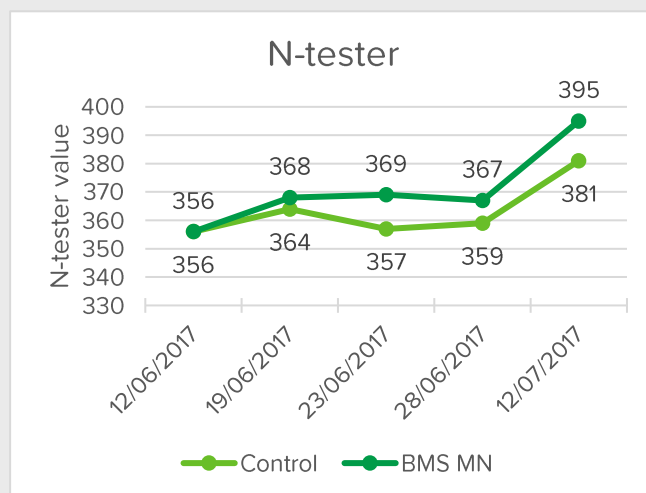
Variety: Grenache noir

Treatments

2 modalities:

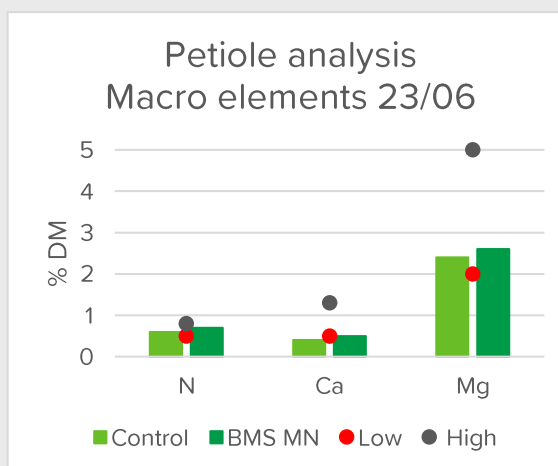
	Modality	Separated flower buds	Flowering / beginning of fruit set	Berries 3 mm	Berries pea-sized / Berries beginning to touch
1	Control	-	-	-	-
2	BMS MN	Fructol Bio 1.66 L/ha	Chelal RD NF 1 kg/ha Chelal Fe 2 L/ha	Chelal RD NF 1 kg/ha Chelal Fe 2 L/ha	Fructol Bio 2 L/ha

Results



⇒ Thanks to the foliar nutrition, we see an **increased photosynthetic activity** of the vines. The differences observed from June 23 on are statistically significant. In addition, we see greater homogeneity in the BMS MN modality.

A first petiole analysis was performed on May 24 before the first application of FRUCTOL BIO. In this analysis we saw that the trace elements Fe, Mn and Zn were at a low level and in case of Fe even very low. To check whether we have improved the levels of Fe, Mn and Zn, we performed a second petiole analysis on June 23.



	Fe (ppm)*		Zn (ppm)*		Mn (ppm)*	
	24/05/17	23/06/17	24/05/17	23/06/17	24/05/17	23/06/17
Control	11.6	18.1	14.0	21.4	14.1	58.5
BMS MN		31.7		41.7		35.5

* The target value for these 3 elements is greater than 20 ppm.

⇒ The petiole analysis confirms that we have a **more favourable nutritional status** in the BMS MN modality, especially with regard to nitrogen, magnesium, calcium, iron and zinc.