

BASIC INFORMATION

TARGET	Downy mildew (<i>Plasmopara viticola</i>)
CROP	Grape, cv. Tinta Barocca (<i>Vitis vinifera</i>)
SPRAY VOLUME	620 l/ha to 1142 l/ha
LOCATION	Paarl, Western Cape • South Africa
TRIAL DATE	October 2012
RESEARCHER(S)	J. Kotze, Oro Agri SA (Pty.) Ltd.

FIELD SITUATION

Applications were made using air assisted motorized knapsack sprayers applying 620 l/ha to 1142 l/ha spray mixture. The first application was made at 20 – 45 cm shoot length and a total of 5 applications were made. Due to adverse weather conditions the interval between the 1st and 2nd application was 25 days, which is not optimal since the small bunches are extremely sensitive to infection by downy mildew at this stage. An evaluation of percentage bunch infection was done on 12 December, 1 week after the 4th application. A 5th application was made on 20 December, but the trial was abandoned at this stage.



TARGET: DOWNY MILDEW

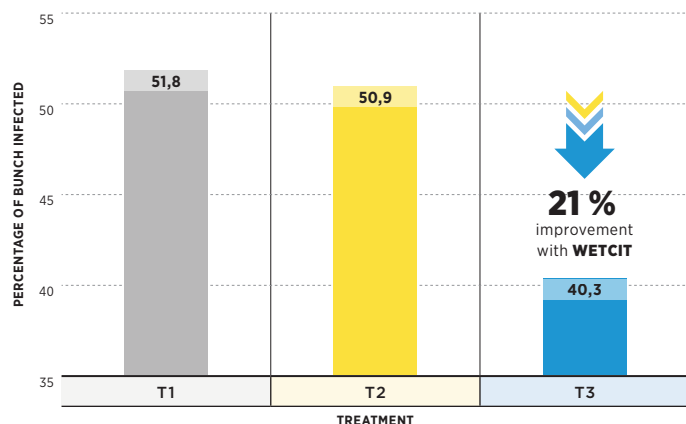
Plasmopara viticola

FIGURE 1

Average downy mildew infection (%)

per bunch on 12 december 2012

RUITERSVLEI; PAARL, WESTERN CAPE • SOUTH AFRICA



CONCLUSIONS

Due to downy mildew infection during the extended interval between the 1st and 2nd application it is extremely difficult to make conclusions from data generated in this trial.

Indications are, however, that treatment program 3 (Mancozeb, 2 x Acrobat®, 2 x Cabrio® Top, all with **WETCIT** 100 ml/hl) resulted in significant reduction of downy mildew when compared with the standard treatment (treatment 1).

Also visible is the influence of **WETCIT** comparing treatment program 2 and 3, where without **WETCIT**, treatment program 2, didn't result in a significant reduction of downy mildew when compared with the standard treatment.

TREATMENT TABLE

	20 - 45 cm	EARLY FLOWERING	ALMOST PEA BERRY	14 DAYS AFTER PEA BERRY	28 DAYS AFTER PEA BERRY
T1*	Prosper® 60 ml (spiroxamine 500 g/l)	Prosper® 60 ml (spiroxamine 500 g/l)	Legend™ 25 ml (quinoxifen 250 g/l)	Legend™ 25 ml (quinoxifen 250 g/l)	Legend™ 25 ml (quinoxifen 250 g/l)
T2	Standard treatment + Mancozeb 200g	Standard treatment + Acrobat® 200g (dimethomorph 90 g/kg + mancozeb 600 g/kg)	Standard treatment + Acrobat® 200g (dimethomorph 90 g/kg + mancozeb 600 g/kg)	Standard treatment + Cabrio® Top 200g (F500® 50 g/kg + metiram 550 g/kg)	Standard treatment + Cabrio® Top 200g (F500® 50 g/kg + metiram 550 g/kg)
T3	Standard treatment + Mancozeb 200g + WETCIT 100 ml/hl	Standard treatment + Acrobat® 200g (dimethomorph 90 g/kg + mancozeb 600 g/kg) + WETCIT 100 ml/hl	Standard treatment + Acrobat® 200g (dimethomorph 90 g/kg + mancozeb 600 g/kg) + WETCIT 100 ml/hl	Standard treatment + Cabrio® Top 200g (F500® 50 g/kg + metiram 550 g/kg) + WETCIT 100 ml/hl	Standard treatment + Cabrio® Top 200g (F500® 50 g/kg + metiram 550 g/kg) + WETCIT 100 ml/hl

* Treatment 1: standard powdery mildew treatment