TDB **0639**

TEST THE EFFICACY OF BUD MITE CONTROL APPLICATIONS WITH AND WITHOUT THE ADDITION OF **WETCIT™**

BASIC INFORMATION

TARGET	Bud mite (*Colomerus vitis*)
CROP	Table grape, cv. Sundance (white grape) (*Vitis vinifera*)
SPRAY VOLUME	730 - 1300 l/ha
LOCATION	Simondium, Western Cape • South Africa
TRIAL DATE	September 2013
RESEARCHER(S)	J. Kotze, **Oro Agri SA (Pty.) Ltd.**

FIELD SITUATION

Pre-season bud mite infestation was determined by doing bud analyses (3 buds on each of 6 cuttings per plot) in the dormant period during the winter of 2012. Plots were selected (all had an infestation level of approximately 50 % of buds analyzed being infested with bud mite) and treated three times at 14 day intervals, with the first treatment applied shortly after bud burst. A bud infestation analysis was done again on the same plots in the dormant period of the winter 2013.

GRAPE LEAF UPPER (L) AND LOWER (R) EPIDERMIS INFESTED WITH ERIOPHYID MITE

TREATMENT TABLE

	TREATMENT	RATE	NOTES
1	Untreated	-	*Do three applications using motorized knapsack. Ensure thorough wetting of vines. Do first application when last buds break and follow up with 2 more applications at 14 day intervals.*
2	Pride® (fenazaquin) 200 g/l	50 ml/hl	
3	Pride® (fenazaquin) 200 g/l + **WETCIT** (alcohol ethoxylate)	50 ml/hl 150 ml/hl	

CONCLUSIONS

The trial site was very heavily infested with bud mite, with the pre-treatment counts reflecting 90 % to 98 % infestation.

Although the bud analyses showed a 10% reduction in the Untreated, the standard treatment 2 (Pride® 50 ml/hl) did not reduce the bud mite infestation. In treatment 3, where **WETCIT** was added to Pride®, the reduction in infestation was improved. The standard treatment with Pride® at 50 ml/hl resulted in a lower increase of bud mite infection than the Untreated, but did not succeed in decreasing the infestation after 3 applications in spring. The addition of **WETCIT** at 150 ml/hl increased the efficacy of Pride® in 30 % on the reduction in infestation.

FIGURE **1**

Percentage buds infested

Pre and post treatment

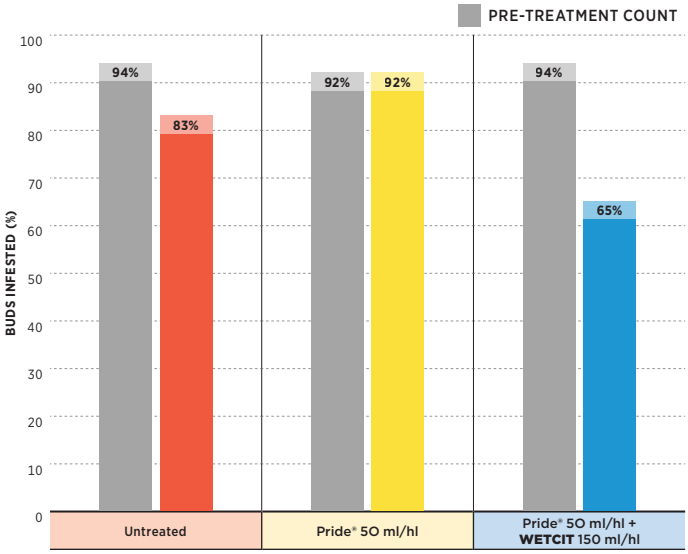
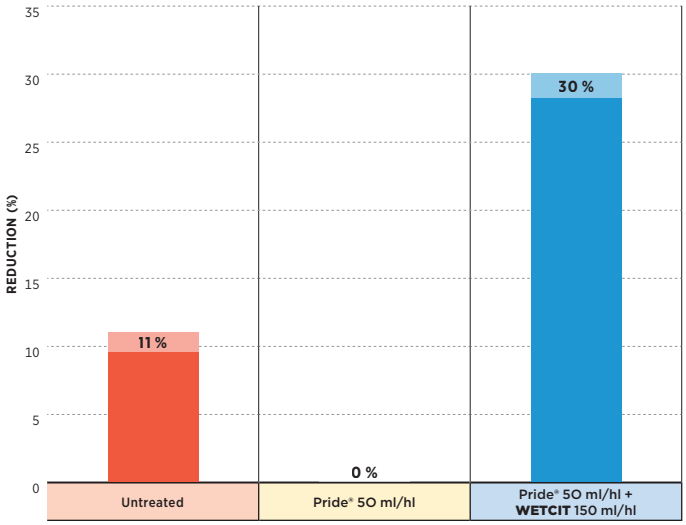


FIGURE **2**

Percentage reduction in infested buds



VITVIERPHVI0639ENG