

EVALUATION OF THE EFFICACY AND CROP SAFETY OF A STANDARD SPRAY PROGRAM ON APPLE SCAB WITH TWO RATES OF WETCIT



WETCIT



BASIC INFORMATION

TARGET	Apple scab (<i>Venturia inaequalis</i>)
CROP	Apples Variety: Braeburn
SPRAY WATER VOLUME	started at 1100 l/ha, increased to 4000 l/ha
LOCATION	Mara Farm, Grabouw • South Africa
TRIAL DATE	2007/8 summer season
RESEARCHER	Sapsford Agricultural Services



CROP

Apples

Variety: Braeburn

FIELD SITUATION

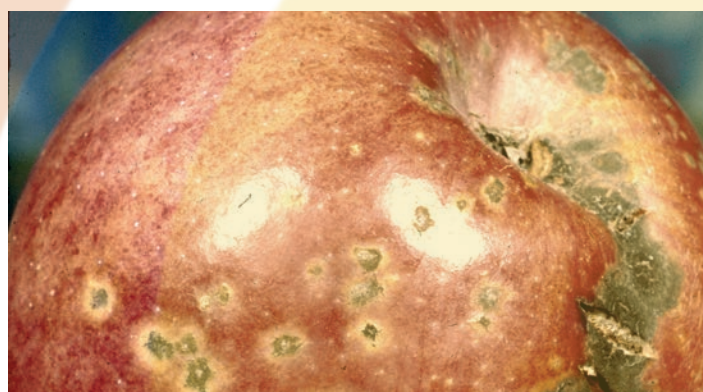
A standard commercial disease and insect control program was applied alone and in combination with two rates of **WETCIT** to blocks of 6 trees in a commercial orchard by means of high pressure handguns. A total of 19 applications were from green tip stage through to harvest. Normal Calcium nitrate and Calcium chloride applications for the control of bitterpit were part of the spray program.

The orchard suffered from a heavy scab pressure with 100% of fruit on the untreated trees showing scab infection at harvest. Evaluations of scab infection on leaves and fruit were made during the season as well as close to harvest.

DISCUSSION AND CONCLUSION

At the first evaluation date on 20 November, when fruit were between 26 mm and 32 mm in size, it was clear that the addition of **WETCIT** resulted in numerical improvements in scab control on leaves and fruit, with the 200 ml **WETCIT** rate performing the best. This trend was also apparent at the fruit infection evaluation just before harvest on 14 March.

No phytotoxicity was observed on fruit or leaves for the duration of this trial and the use of **WETCIT** at 200 ml/hl with a standard disease and insect control program is recommended.



PEST

Apple scab

TREATMENT TABLE

- 1 Untreated
- 2 Standard*
- 3 Standard + **WETCIT** 100 ml/hl
- 4 Standard + **WETCIT** 200 ml/hl

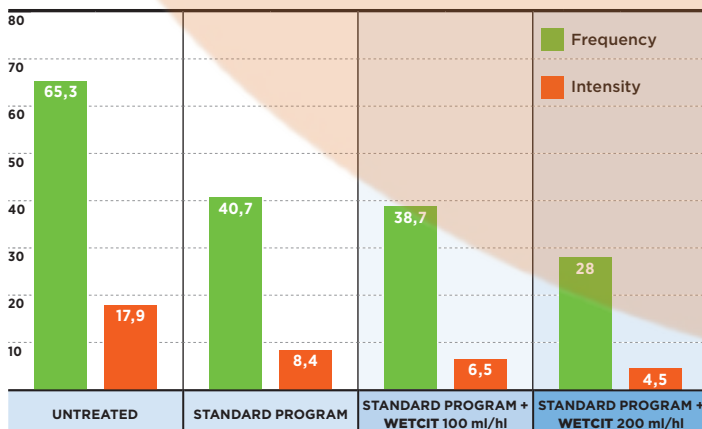
*Standard = Chlorpyrifos, Mancozeb, Strobilurin, Indoxacarb and fertilizers

GRAPH 01

SCAB LEAF INFECTION

ON 20 NOVEMBER 2007

Infection (%)



GRAPH 02

FREQUENCY OF SCAB FRUIT INFECTION

AT HARVEST ON 14 MARCH 2007

Infection (%)

