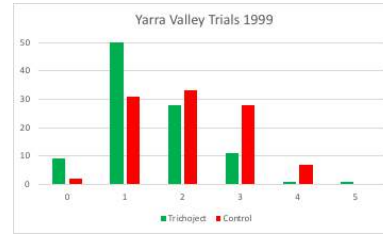
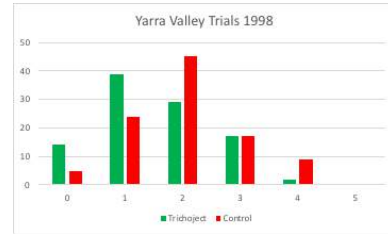


STOP THE SPREAD OF GRAPEVINE TRUNK DISEASE

Hold symptoms in check with Vinevax Bio-Implants

In these trials in the Yarra Valley, symptoms were graded from 0-5.

- 0 = full health (clear of symptoms)
- 1 = leaf yellowing
- 2 = leaf yellowing + stunting of growth
- 3 = leaf yellowing + stunting of growth + die back
- 4 = extensive die back (entire arm)
- 5 = dead vine



Dowels applied in 1996 reduced symptoms of trunk disease and improved vine health through 1998 and 1999.

BEST PRACTICE TREATMENT

Staining in Canopy

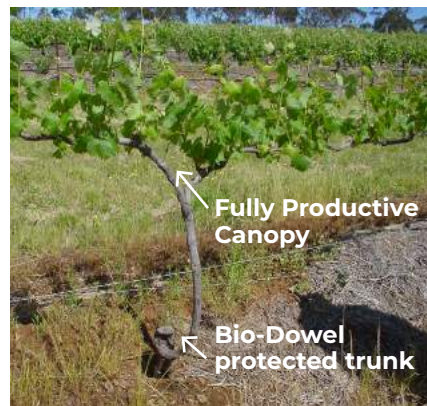
One Dowel inserted below Crown

Staining in Crown

Two Dowels inserted in Trunk

Staining down Trunk

Vine Reconstruction with One Dowel under new Trunk



COST BENEFIT

ANALYSIS

Grapevine Trunk Diseases affect yields.

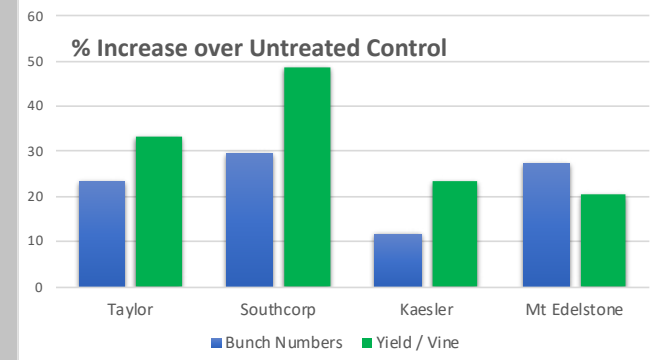
In his SARDI report, Trevor Wicks estimated the effects of Eutypa on vine yields:

Eutypa Lata detected in 30% of vines, can reduce yields by 860kg/ha.

At \$1800/tonne for contract grapes, this translates to \$1548/ha per year.

If symptoms rise to 50% of vines, losses are more than 1500kg/ha.

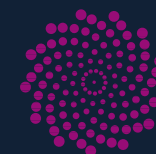
At \$1800/tonne this is \$2700/ha per year.



In a trial using just a single dowel per vine, the treated vines showed yield increases:

Taylor's Wines **increased** 600g/vine over 2 years.
 Kaesler Wines **increased** 700g/vine over 3 years
 Mt Edelstone **increased** 925g/vine over 2 years.

At 500g/vine and 2500 vines per ha. That is 1250kg extra fruit which would be at least **\$2250 extra per hectare.**



Vinevax Bio-Dowels are a long term & cost-effective approach to disease management.