

## Vine reconstruction / reworking

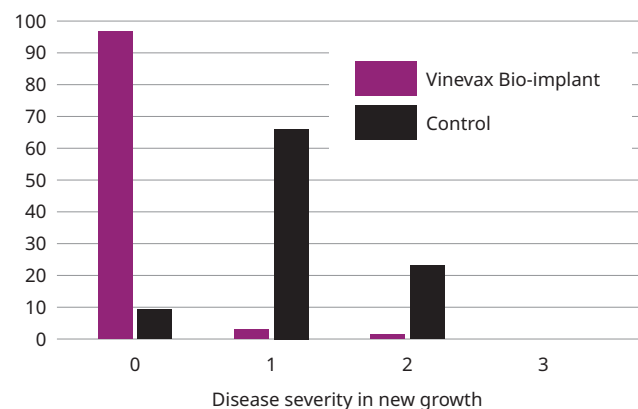
In cases of severe Eutypa, it can be necessary to remove the original trunk to eliminate all infected tissue. A single Vinevax Bio-Dowel, placed at the base of a watershoot trained up to form a new canopy, protects the new growth.

This method limits any loss of production through the reconstruction process.

Four years later, the health of reconstructed vines was graded on a scale of 0 to 3, clear of symptoms (0), right through to yellowing or stunting and finally death (3).

The benefits of using the dowel were clear at this point.

96% of treated vines were found to still be clear of disease and this compared to only 10% of vines in the untreated areas.



### Vinevax Pruning Wound Dressing

Use as a paint or a spray to protect wounds from airborne Eutypa spores. The Trichoderma acts as a living barrier on the wound, growing into the woody tissue and inoculating the wound site.



### Plantmate Drench

Trichoderma WP for increased microbial activity in the rootzone. Spray 3-4 times per year, starting in early Spring, targeting periods of root flushes. Improves nutrient uptake on the vine.



### Plantmate Granular

Insoluble granule for application under container grown plants when planting or re-planting. 10g vine has shown 30% increases in first year shoot growth. Use in areas of previous plant losses to support re-establishment.



### Abzorber Root Dip

Easy to mix root dip for all bare rooted plantings. Use in conjunction with Plantmate Drench for commercial bare-rooted vineyard plantings. Helps to reduce moisture stress and improve plant survival in new plantings.



**Natural Bio-Inoculant Implant**  
Long lasting treatment for vines

Registered for  
Eutypa Lata



**Agrimm®**

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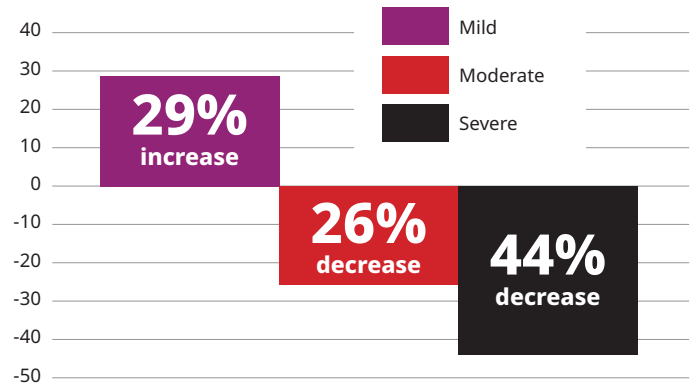
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# Vinevax Bio-Implants keep your vines in the productive zone

Trevor Wicks showed that symptoms if grades 2 or 3 would reduce vine yields by over 50%. Vinevax reduces these moderate or severe symptoms by increasing those in the productive zone. Use Vinevax to rejuvenate your vines and help them reach their production potential.

Vine number difference in treated/untreated groups expressed as a % over untreated group number.

Mild: Eutypa grade 0 & 1  
Moderate: Eutypa grade 2 & 3  
Severe: Eutypa grade 4 & 5  
Where 0 is symptomless & 5 is dead



Vinevax trial results in Eutypa affected block in the Eden Valley monitored over 3 yrs

## Best Practice Treatment

### Staining in Canopy

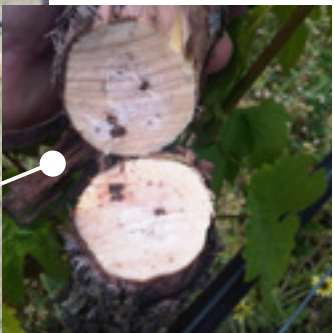
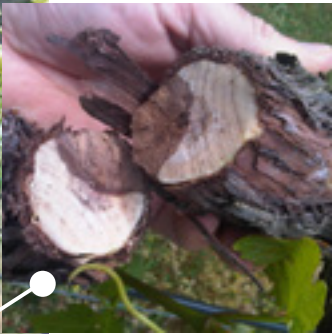
One Dowel inserted below Crown

### Staining in Crown

Two Dowels inserted in Trunk

### Staining down Trunk

Vine Reconstruction with One Dowel under new Trunk



## Cost Benefit Analysis

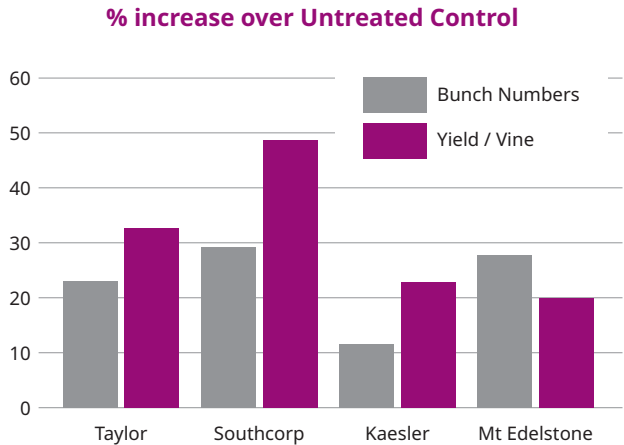
Grapevine Trunk Diseases significantly affect Yields.

Trevor Wicks stated the effect of Eutypa on wine yield in his SARDI report. When Eutypa was detected in 30% of vines in a vineyard it reduced yields by an estimated 860kg/ha.

**At \$1800/tonne this is \$1500/ha per year.**

If symptoms rise to 50% of wines, the yield losses are likely to be more than 1500kg/ha.

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



Inserting a single dowel per vine at three different trial sites. Treated vines averaged the following 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 per hectare.