

The combination of two 'soft' materials
giving excellent results for
powdery mildew control



The adjuvant of choice for powdery mildew control in grapes - an innovative product providing residue free control ahead of market demand.

- **Cost effective** – competitive on price with other programmes.
- **High efficacy** achieved with low to medium rates of sulphur in both high and low water rates.
- **Genuinely safe** to use and environmentally benign - Biogro registration pending.
- **NZ made** - developed and field tested in Hawkes Bay.

Better for you, better for our land, better for our reputation

sometimes simple solutions work

An open letter to grape growers

My name is Chris Henry. I have been involved in growing since the mid 80s and grape growing research since the mid 90s. I understand your need for certainty and value for money. The purpose of this letter is to create direct contact between us - so you can access the best available information and I am able to support you and the technical transfer of this product better.

This method of powdery mildew control has not had large exposure outside scientific circles, but sufficient trialing has now been undertaken in a Hawkes Bay commercial vineyard to bring it to you with some confidence.

In the many years of HortResearch studies of **Protector^{hml}** on botrytis, we were aware that **Protector^{hml}** and copper delivered excellent control on powdery mildew. There was also anecdotal evidence of growers successfully using that combination and **Protector^{hml}** alone for dealing with powdery mildew outbreaks.

Our most recent research has been a two year study. The conclusion of that study is that **Protector^{hml}**, when used in a protectant programme with low to medium rates of sulphur, will provide efficacy against powdery mildew to the equivalence of a chemical programme, including DMIs. Importantly, this can be achieved at very little difference in cost, at either high or low water rates.

Protector^{hml} has very useful adjuvant properties and this is my best guess as to why this combination works so well, given that **Protector^{hml}** alone only produces efficacy comparable with medium rates of sulphur.

The tables summarise the protocols and the results of last season's trial in Hawkes Bay.

The variety of grape used was Verdelho, which while being unusual, is highly susceptible to powdery mildew. The block is 2.4ha, planted in 2 metre rows. A Sylvan G2 applied treatments. Some growers say the season was average, some say high, for powdery mildew pressure in Hawkes Bay.

The limited work we have done on Erinose Mite control indicates an improvement in efficacy for a given weight of sulphur.

My wish for this season is for you to evaluate and compare **Protector^{hml}** within your own programme.

This, combined with the results of further trials that I am doing this season, will hopefully deliver an improvement in industry best practice.

If you are interested in receiving the full trial reports and/or discussing the product I would be very pleased to hear from you. You can contact me by email at chris@henrymanufacturing.co.nz or on 027 294 1490.

Powdery mildew field trial, Hawkes Bay			
Date of application	Low water rate	High water rate	Spray interval (days)
26 Oct 2007	150 l/ha	200 l/ha	
13 Nov 2007	150 l/ha	300 l/ha	18
23 Nov 2007	200 l/ha	400 l/ha	10
11 Dec 2007	300 l/ha	600 l/ha	18
3 Jan 2008	300 l/ha	600 l/ha	23

Powdery mildew field trial, Hawkes Bay				
Treatment		Number of bunches infected with powdery mildew		
		Sample size = 400 bunches*		
		Assessment dates		
		27 Dec 2007	8 Jan 2008	23 Jan 2008
Low water with 0.5% Protector ^{hml}	2 kg/ha S	0	1	8
	3 kg/ha S	0	0	0
	4 kg/ha S	0	0	1
High water with 0.5% Protector ^{hml}	1.5 kg/ha S	0	0	1
	2 kg/ha S	0	0	0
	3 kg/ha S	0	0	0

*Note: SWNZ methodology – 20 random bunches in 20 bays

The website – www.henrymanufacturing.co.nz is currently under construction. Please note that distribution will be finalised in time for this season.

Kind Regards

Chris Henry

