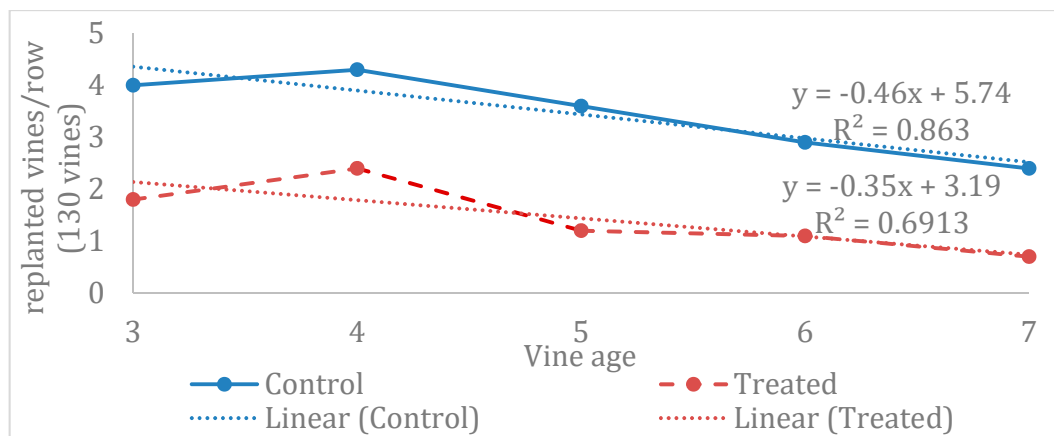


Supplementary Table 1. Data and Sources for Vine Replacement Cost, Mature Yield and Grape Prices

	Replacement cost (\$/vine)	Mature Yield (kg/hectare)	Grape Price (\$/kg)
Autumn King ¹	7.25	38,333	1.97
Scarlet Royal ¹	7.25	34,074	2.20
Sheegee ¹	10.25	27,797	1.96
Flame Seedless ¹	6.25	27,797	1.96
Average	7.75	32,000	2.03
Crimson Seedless ²	-	26,620	2.12
Sugraone			
Treated (Total Fruit)	-	21,960	-
Control (Total Fruit)	-	15,480	-
Treated (Marketable Fruit)			
Treated (Marketable Fruit)	-	17,820	-
Control (Marketable Fruit)	-	9,540	-

¹According to Fidelibus et al. (2018)

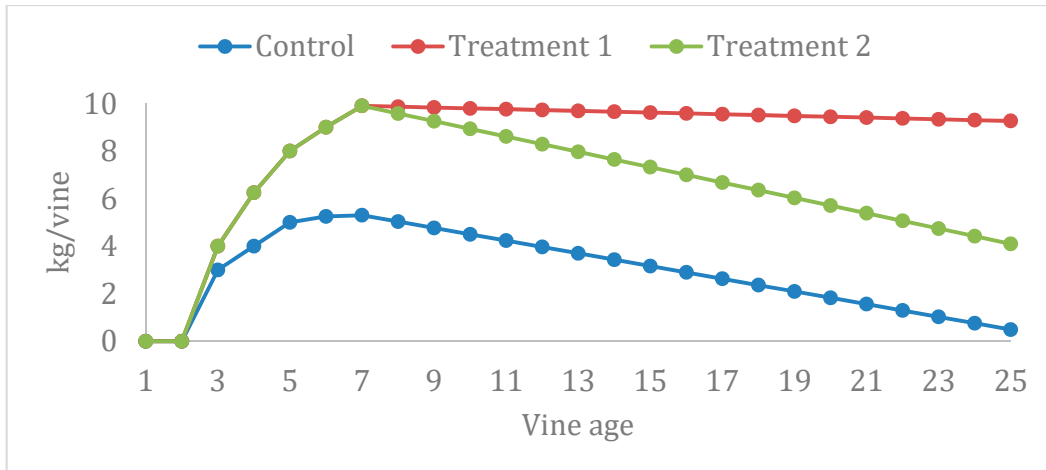
²According to Baumgartner et al. (2019)



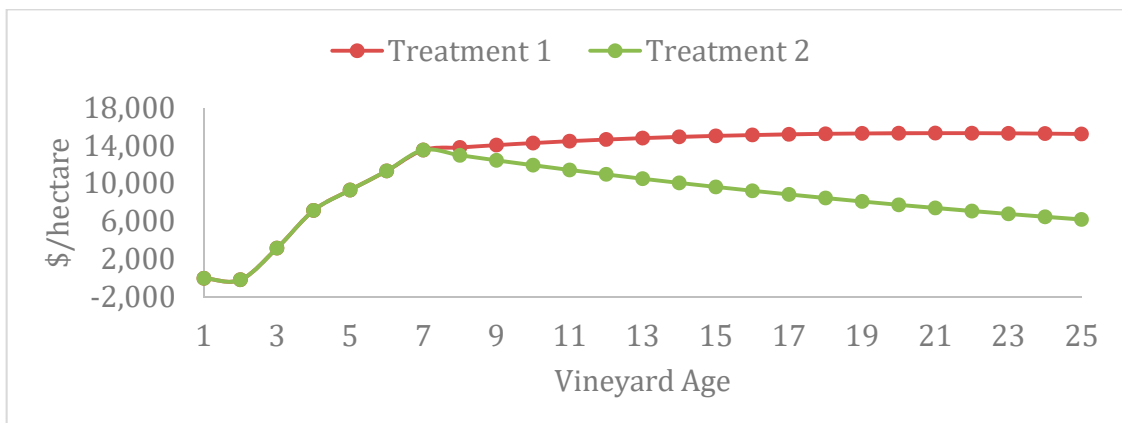
Supplementary Figure 1. Fitted Regression Lines for replanting field trial results

Supplementary Table 2. Predicted Avoided Losses due to treating vines with pruning wound protectant per hectare over first 12 years of vineyard lifespan.

Age	Avoided replanted vines	Avoided Cost (\$)	Present Value of Benefits (\$)
1	33.78	261.83	253.20
2	32.26	250.03	240.74
3	30.74	238.22	228.28
4	29.22	226.42	215.82
5	27.69	214.62	203.36
6	26.17	202.81	190.90
7	24.65	191.01	178.44
8	23.12	179.20	165.98
9	21.60	167.40	153.52
10	15.78	122.33	108.77
11	9.42	72.97	59.84
12	3.05	23.61	10.92
Total	277.5	2,150.45	2,009.81



Supplementary Figure 2. Projected yield (kg/vine) by vineyard age for the untreated control, treatment 1 (75% disease control efficacy) and treatment 2 (50% disease control efficacy).



Supplementary Figure 3. Change in Net Returns per hectare over the 25 year vineyard lifespan for treatment 1 (75% disease control efficacy) and treatment 2 (50% disease control efficacy).