

## Orchard C - Waihi - Male infection Monitoring Report

<b>Inspection Date:</b> 15 September 2014	<b>Variety:</b> Hayward – Chieftain males
<b>Blocks monitored:</b> Whole orchard -14 blocks (total 5.06ha)	<b>Status:</b> Psa-V positive 17.8.12
<b>Reason for inspection:</b> Male infection monitoring programme	
<b>Monitored by:</b> KVH team	<b>Elevation:</b> 109msl
<b>Production 2013 :</b> 5238 t/ha	<b>Production 2014:</b> 8027 t/ha

**Observations:** Infection levels much higher in 2014 than in 2013. Infection cut-out had been undertaken on 10.9.14 after the monitoring round on 2.9.14 and prior to the monitoring on 15.9.14. Note: Several of the blocks were monitored on 2.9.14 as part of another KVH monitoring project so these results have also been included.

Block	Variety	Percentage of vines with secondary symptoms					
		2013	3.9.13	2014	2.9.14	2014	15.9.14
A	Hayward – Chieftain males	Males	0%			Males	7.14%
B	Hayward – Chieftain males	Males	2.4%			Males	16.7%
C	Hayward – Chieftain males	Males	3.3%			Males	56.7%
D	Hayward – Chieftain males	Males	11.1%	Males	0%	Males	59.3%
E	Hayward – Chieftain males	Males	5.9%	Males	0%	Males	44.1%
F	Hayward – Chieftain males	Males	0%	Males	10.3%	Males	43.6%
G	Hayward – Chieftain males	Males	3.3%	Males	13.3%	Males	83.3%
H	Hayward – Chieftain males	Males	0%			Males	29.4%
I	Hayward – Chieftain males	Males	2.8%			Males	38.9%
J	Hayward – Chieftain males	Males	3.5%			Males	51.7%
K	Hayward – Chieftain males	Males	0%	Males	0%	Males	45.8%
L	Hayward – Chieftain males	Males	0%	Males	0%	Males	57.1%
M	Hayward – Chieftain males	Males	0%	Males	0%	Males	59.3%
N	Hayward – Chieftain males	Males	0%	Males	13.9%	Males	48.8%

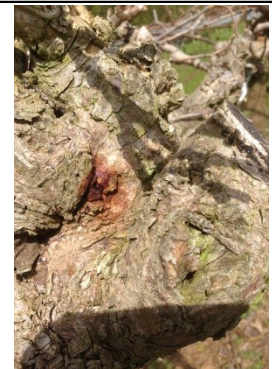
### Photos



Male vine



Orchard layout



Symptoms 2014

**Symptom severity:** There was no sign of leader dieback this spring compared to 2013. The majority of exudate observed was on canes.

### Background (of block(s) under investigation)

- Frost protection is irrigation sprinkler system
- No flowers harvested. Wet pollen applied at 1.46kg/ha
- Copper applied after wounding activities
- Crush tipped
- Girdled
- Green seal used for wound protectant

**Infection cut-out strategy:** Secondary symptoms are removed when observed subject to workload. One round of cauterising and 4 rounds of infection cut out per year plus additional removal when pruning.

**Spray Programme:** 2014 season – 7 x Nordox; 1 x Actigard; 1 x Ambitious; 5 x Kocide Opti

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