

KVH completed a round of monitoring on 11 orchards in the NW Auckland region on 2-4 November 2015 representing 40.57ha. There are 23 orchards in the region totally 91.46ha.

Orchards chosen were surrounding the two positive orchards in the region. The original positive orchard (confirmed 14.11.13) had the 16A immediately removed and was stump grafted to G3. The second positive orchard (confirmed November 2014) also had the 16A removed but not until after harvest 2015 – it had been notch grafted to G3 in 2014.

Samples were taken from five orchards. Only one was confirmed Psu-V positive.

Orchard 1 – a 4ha Hayward orchard. Samples were taken from a female vine which had exudate on canes at the joints, and from a male with cane dieback and shoot collapse. Both vines were in the same Block. All samples were lab tested Psu Not Detected.



Female vine with exudate



Male vine with dieback and shoot collapse

Orchard 2 – 0.4ha Hayward orchard on T-bar. Cane dieback and exudate were observed on a male vine and two females in this block and samples taken for lab testing. All were returned Psu Not Detected.



LH photo:
Female with exudate on leader and cane.

RH photo:
Male vine with "rusty buds."



Orchard 3- Psa-V positive orchard 1.6ha G3

Exudate on trunks, canes and new grafts throughout the block. 17 vines had leader dieback – 13 females and 4 males.



Cane dieback and exudate on trunks and new grafts



Orchard 4 – 1.86ha Hayward – no symptoms seen and no samples taken.

*Vines had
several girdles*



Orchard 5 – 2.16ha Hayward – no symptoms observed and no samples taken

*Vines were
Healthy.*



Orchard 6 – 5ha G3 and Hayward

No symptoms seen and no samples taken.

Flowers were out on G3 and bees in the orchard.



Orchard 7 - 6ha of Hayward and G3

This orchard was suspected of having Psa in early October when 3 rows of vines were observed with dieback and red exudate. Samples were tested Not Detected and were sent on to MPI for further testing. No Psa or other bacteria were identified and it was presumed the symptoms were as a result of Hicane burn

Further samples were tested Not Detected. No

taken at this round and also other symptoms were seen.

New shoots are now evident on the affected vines

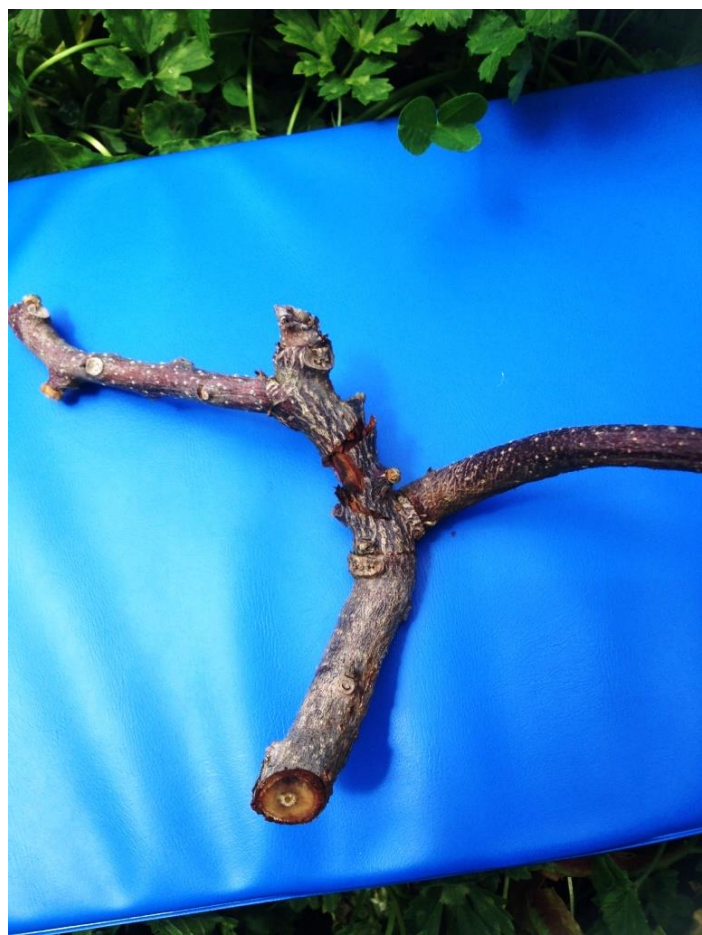


Orchard 8 -3ha Hayward. No symptoms were observed and no samples taken for testing. Vines appeared healthy across the monitored blocks.



Buds were still tight

Orchard 9 -12.5 ha Hayward. Only part of this orchard was monitored – the blocks closest to the nearest positive orchard(which is 30m down the road). Samples were taken from 2 adjacent males in a strip male row with cane dieback and red exudate. Both samples were returned Psa-V positive.



Cane sample taken at right had exudate at the joint and internal staining.

Orchard 10 – 2.8ha Hayward. Samples were taken from two vines on this orchard – both males. Both had cane dieback and red exudate and one had cracking from cicada damage. These samples all tested Not Detected – the grower felt they were cold temperature related.



Samples taken were both from male vines in two separate blocks on the orchard.

Orchard 11 – 1.2ha G3. This orchard was the first positive orchard in the region in November 2013. Exudate and cane dieback was seen on a number of vines throughout the block particularly the females, and mostly around the middle of the block. Bruno suckers had spotting on the leaves and some grafts and stumps were “oozing”. No samples were taken in this orchard.



Symptoms seen across the block