

## Whangarei Controlled Area Protocol



KVH has defined a controlled area around the centre of infection (see map appended) to which movement restrictions apply. All Growers within the controlled area shall put in place orchard hygiene and crop protection practices, and monitor the situation on their orchard and report any suspected Psa-V symptoms to KVH (0800 665 825). These are explained below.

### Movement restrictions

No risk items that could spread Psa-V should be taken out of the controlled area, or moved between orchards within the controlled area, until further notice. This includes:

- kiwifruit vine material (including compost containing kiwifruit material);
- budwood or rootstock;
- orchard infrastructure;
- potentially contaminated orchard equipment (all equipment must be decontaminated—see ‘hygiene’ below)
- reject fruit.

When beehives within the controlled area need to be moved, KVH authorisation is required. Best practice stand-down periods will need to be observed.

No flowers shall be picked for pollen milling from orchards within the controlled area for use on orchards outside the controlled area without KVH permission, and pollen owners wanting to move pollen should notify KVH.

### Quick guide to movement controls

From orchards within the controlled area	To other orchards inside the controlled area	To other orchards in Whangarei outside the controlled area	To Other Exclusion regions	To Containment regions	To Recovery regions
Pollen	KVH authorisation required	KVH authorisation required	Prohibited	KVH authorisation required	Allowed
Bee hives	KVH authorisation required	Prohibited	Prohibited	Allowed	Allowed
Orchard Equipment and infrastructure	KVH authorisation required	KVH authorisation required	Prohibited	KVH authorisation required	Allowed
Budwood rootstock	KVH authorisation required	KVH authorisation required	Prohibited	KVH authorisation required	Allowed
Other vine material	KVH authorisation required	KVH authorisation required	Prohibited	KVH authorisation required	Allowed
Reject fruit	KVH authorisation required	KVH authorisation required	Prohibited	KVH authorisation required	Allowed

### Monitoring and reporting

In addition to the mandatory monitoring required under the National Psa-V Pest Management Plan, all Growers within the controlled area shall check all vines on their orchard for Psa-V symptoms as soon as possible. KVH requires that this monitoring be repeated on a fortnightly basis until further notice, with reporting to KVH through the KVH website tool ([www.kvh.org.nz/monitoring\\_plan](http://www.kvh.org.nz/monitoring_plan)). Growers are reminded that if any suspicious symptoms are seen on a KPIN which has previously not had Psa-V confirmed, these symptoms must be reported to KVH within 48 hours.

Growers in the wider Whangarei region outside the controlled area shall also monitor regularly, paying particular attention to more susceptible varieties.

Information on what to look for and how to go about monitoring is available on the KVH website at [www.kvh.org.nz/monitoring](http://www.kvh.org.nz/monitoring)

**Any potential symptoms should be immediately reported to KVH by calling 0800 665 825**

## **Crop protection**

All growers within the controlled area should apply an effective crop protection product as soon as possible, including if a product has not been applied with the last seven days in accordance with KVH Best Practice. Information on effective crop products and application of these is available on the KVH website.

KVH strongly recommends the use of an adjuvant with copper crop protection products applied pre-flowering. Research has clearly demonstrated that coppers applied with an adjuvant provide the best protection for your crop. Ensure sprayers are set up to provide thorough coverage of the entire vine. Products are available for both conventional and organic orchards. KVH recommends the application of at least one of the following products:

## **Hygiene**

All Growers within the controlled area should put in place strict orchard entry protocols covering all movements (e.g. movements of vehicles, trailers, orchard equipment, people, etc.).

An important aspect of strengthening orchard hygiene is the selection of an appropriate sanitiser product. KVH has commissioned the testing of a range of sanitiser products, evaluating their efficacy against Psa-V on a range of surfaces. When selecting a sanitiser product, consider what surfaces need to be sanitised and likelihood of residue risk from fruit contacting the sanitised surface. Ideally, a product should be selected with efficacy on a wide range of surfaces, achieves sanitisation in a short period of time and poses no risk of residues.

Growers and/or operators who wish to move orchard equipment between orchards inside and those outside the Whangarei Controlled Area must request permission from KVH and submit a plan detailing how equipment hygiene will be managed when moving between orchards. This process will be subject to audit. Requirements for the movement of orchard equipment to areas outside of the Whangarei Psa-V region still apply.

Tools used for vine management should not be moved between the controlled area and the orchards in the wider Whangarei Exclusion region.

Information explaining how to manage effective orchard entry and hygiene are available in *KVH Best Practice: Orchard Hygiene* on the KVH website at [www.kvh.org.nz/hygiene](http://www.kvh.org.nz/hygiene)

## **Vine management activities**

Complete these activities in dry weather. For weather forecasts and Psa risk, refer to the Psa-V Risk Model on the KVH website ([www.kvh.org.nz/niwa](http://www.kvh.org.nz/niwa)). A protectant should be applied following any wounding activities. Advice on best practice protection is available within the KVH Seasonal Management Guide at [www.kvh.org.nz/seasonal\\_advice](http://www.kvh.org.nz/seasonal_advice)

All signs of infection should be removed. Refer to “Managing Infected Material” in the KVH Seasonal Management Guide for best practice advice.

## **KVH will be:**

- Supporting growers in the region to minimise the risks and impacts of Psa-V;
- Following up any reports of suspected symptoms in the controlled area or other parts of the Whangarei region;
- Continuing to provide up to date information and advice on what to do in person with Growers, through the Whangarei Regional Coordinator, as well as on the KVH website.

For any further guidance or clarification on this protocol you can contact **KVH on 0800 665 825**.

**Recommended product list (only products with ACVM registration for Psa-V efficacy are listed)**

Product Name	Type	Rate/100L	Use period	BioGro status
Nordox 75 WG™	Copper	37.5g (summer)	Full label claim. Full season. Do not apply to open flowers. 7 days PHI*	Certified
Kocide® Opti™	Copper	70–90g	Full label claim. Full season. Do not apply to open flowers. 7 days PHI*	Prohibited
Hortcare® Copper Hydroxide 300	Copper	50–90g (summer)	Limited label claim. Full season. Do not apply to open flowers. 7 days PHI*	Certified
Coptyzin	Chelated Copper	1–1.5l (summer)	Limited label claim. Full season. Do not apply to open flowers. 7 days PHI*	Prohibited
Champ® DP	Copper	50–75g (summer)	Limited label claim. Use during post-flowering to harvest is not recommended by manufacturers.	Prohibited
Tri-base Blue	Copper	150ml (summer)	Limited label claim. Use during post-flowering to harvest is not recommended by manufacturers.	Prohibited
Kasumin®	Bactericide	500ml	<b>Strict</b> use conditions apply. Use from bud break until 21 days before first flower opens (male or female). Refer to Kasumin User Guide.	Prohibited
KeyStrepto™	Bactericide	60g	<b>Strict</b> use conditions apply. Use from bud break until 7 days before first flower opens (male or female). Refer to KeyStrepto User Guide.	Prohibited
Actigard™	Elicitor	20g/100L ( <b>foliar applied</b> )	Full label claim. Do not exceed 200g/ha. From post-flowering to 28 February use allowed on <u>non-producing vines only</u> .	Prohibited
		200g/ha in minimum 300L water ( <b>soil applied</b> )	Limited label claim. 14 days PHI*	Prohibited
Ambitious 10SL®	Other	50ml	Limited label claim. Use from bud break until 7 days before first flower opens. Green varieties only. From post-flowering to 28 February use allowed on <u>non-producing vines only</u> .	Prohibited
Caplit	Other	50–75g	Limited label claim. Use from bud break until 7 days before first flower opens on green varieties only. From post-flowering to 28 February use allowed on <u>non-producing vines only</u> .	Prohibited
BOTRY-Zen®	Biological	800g	Limited label claim. Do not apply after fruit set.	Certified

Refer to [KVH Seasonal Management Guide](#) for best practice orchard management.

Growers are recommended to ensure a good copper cover is in place prior to high-risk weather periods—as indicated by the [KVH Psa-V Risk Model](#). It is recommended best practice that an effective crop protection product be applied following vine management activities, and in response to high-risk weather events in order to reduce the risk of infection by Psa



Appendix – Whangarei Controlled Area

1 Oct 2015

