



### Background

Bin movements during harvest have the potential to transfer Psa-V (or other biosecurity threats) if infected plant material is present in bins, and if they haven't been cleaned and sanitised correctly. Research has shown kiwifruit bins that have been cleaned of all plant material and then sanitised correctly using an approved sanitiser, present a negligible risk of transmitting many biosecurity threats.

### Scope

This protocol excludes movements of fruit that has been processed and packaged for domestic consumption or export and includes all movements of fruit prior to processing and packaging. The risk of concern here is plant material that could contaminate the fruit, not the fruit itself.

### Requirements for packhouses

- Detail the process around movement, handling and transport of harvest bins in the packhouse Biosecurity/Psa-V Risk Management Plan in the facility Documented Quality System. KVH will review and sign it off each year prior to the start of harvest. Refer also to [KVH Protocol: Harvest Packing and Reject Fruit](#).
- Document a system to ensure empty bins arriving at the orchard are visually clean, ensure harvesters are minimising leaf material entering bins, and full bins are checked to ensure they are free of visible plant material prior to transport to the packhouse.
- Ensure any bins containing reject fruit are free of plant/leaf material before being moved for stock feed or processing.

### KVH Notification

Packhouse operators must:

- Notify KVH at least 24 hours prior to the first intended movement(s), of bins to Containment or Exclusion regions (except for those movements within the same region) to enable KVH to audit the packhouse process and inspect bins to ensure that the Biosecurity/Psa-V Risk Management Plan is being fully implemented.

Clean, sanitised bins being stored in a secure coolstore between seasons can be audited by a KVH auditor before storage occurs to avoid double handling.

Growers should notify KVH on 0800 665 825 if any bins with plant material present are delivered to their orchard.

### Requirements for empty harvest bins

- Sanitise all bins.
- Remove any plant material before sanitising. Complete bin coverage with a sanitiser will greatly minimise the risk of surface contamination. See the KVH website for bin sanitiser options [www.kvh.org.nz/hygiene](http://www.kvh.org.nz/hygiene).

### Movement Conditions:

- **from Recovery to Containment regions**
- **from Containment to Exclusion regions**
- **from Recovery to Exclusion regions**

One or a combination of the following three options must be used (NB: This process must be clearly documented as part of the post-harvest Psa-V Risk Management Plan that has been audited and signed off by KVH prior to the season start).

1. New bins.
  - a. Supplied direct from the manufacturer and any associated Psa-V transport risks managed.
  - b. Maintain records of the above and have them available for audit.
2. Pre-season supply.
  - a. Use bins that are properly cleaned of all plant material and sanitised with a KVH approved sanitiser and move over the summer period (and before 28 February each year) into the destination containment or exclusion region, and then hold at a bin holding area well away from orchards until harvest time.

- b. Report these movements in detail to KVH (at info@kvh.org.nz or 0800 665 825) at least 24 hours prior to the movement occurring to allow bin inspection.
  - c. Inspect every bin before use on an orchard at harvest to ensure they have been effectively cleaned and sanitised and are clear of any plant and leaf material.
  - d. Maintain records of the above and have them available for audit.
  - e. Meet the conditions of option 3 below If the bins are to be sent back into the region once used.
3. Dedicated used bins under a closed loop system.
- a. Dedicate bins to the individual regions involved, continuously cycle back and forth to that region, without coming into contact with kiwifruit plant material or orchards other than from the region of harvest.
  - b. Do not use bins that have been on an orchard in a Recovery region in the current harvest season.
  - c. Clearly identify dedicated bins for a particular region with easily recognisable marking.
  - d. Before transport to the Containment or Exclusion region clean the bins of all plant and leaf material, then sanitise with a KVH approved sanitizer.
  - e. Separate the bins from other bins once cleaned and sanitised and truck immediately to the region involved or hold under cover.
  - f. Instruct packhouse personnel to inspect every bin before departure and
  - g. Contact a KVH appointed auditor to individually inspect bins and clear for loading.
  - h. Harvest personnel to inspect bins on arrival at the orchard to ensure they are free of leaf and plant material.
  - i. Maintain records and have them available for audit.

### **Transport Requirements**

1. Load bins under cover where possible and send directly from the packhouse to the region involved.
2. New bins going direct from a manufacturer to the region are not required to be loaded under cover or subject to post-harvest inspection and KVH audit. These bins can go directly to orchards.
3. Transport empty bins in a curtain sider/taut liner.
4. Clean and sanitise the truck transporting the bins and inspect to ensure it is clean. It must not have been recently on an orchard in a Recovery region.
5. Provide a trucking docket for every load for bins going from a Recovery region packhouse to containment or exclusion region orchards– verifying the bins are identified correctly for that region and packhouse inspection has been completed
6. Maintain records of the above and have them available for audit.

### **Additional requirements**

#### **Controlled areas**

There is currently a Controlled area notice in place for Whangarei.

- Packhouses must have a documented system in place approved by KVH prior to harvest for of all movements of fruit bins between kiwifruit orchards within the Whangarei Controlled Area, and a kiwifruit orchard or packhouse out of the Controlled Area.
- Clean all bins so that they are free of any visible kiwifruit leaf and other plant material, and sanitise prior to movement onto any kiwifruit orchard.
- Maintain records for each load of bins moved to or from a pack-house, and supplied to growers and processors.

Maintain all records for at least five years, and make available to KVH within 7 days of request

#### **Orchards where other strains of Psa have been identified (e.g. streptomycin resistance)**

- Bins which have been used on these orchards must be checked to ensure they are free of plant material and sanitised before being used on another orchard.
- Vehicles used to transport bins to and from these orchards must be cleaned of plant material and sanitised before leaving the orchard.
- All Harvest equipment and picking bags must be cleaned of plant material and sanitised before leaving the orchard.

### **Audit requirements**

#### **Bins moving from Recovery to Containment regions**

Packhouses sending bins from Recovery regions to Containment regions must contact KVH to arrange a review of the packhouse system and an inspection of the first load of bins to the region. Further inspections may be required and will be at KVH discretion.

**Bins moving from Containment to Exclusion regions and Bins moving from Recovery to Exclusion regions**

1. Packhouses sending bins from Recovery or Containment regions into Whangarei orchards must
  - a. Have a dedicated packhouse appointed inspector checking every bin (i.e. at bin dump or similar) and labelling each clean bin as inspected.
  - b. Contact the KVH auditor to arrange a review of the packhouse system and inspection of the first load of bins. Further inspections to be at KVH discretion.
2. If any bins are found to contain leaf/plant material at a KVH inspection the packhouse will revert to 100% bin inspection by KVH at packhouse cost.

Movement of empty bins from packhouse to orchards for harvest is allowed as detailed in the table below. Refer to the KVH website for each region’s status [http://www.kvh.org.nz/maps\\_regional](http://www.kvh.org.nz/maps_regional).

**NB: Neither empty nor full bins must be moved from the North Island to the South Island**

**General permission for movement of full fruit bins**

KVH has issued a general permission allowing the following movements of full harvest bins to occur, subject to meeting the conditions below:

- Notify KVH of intended bin movement(s) - except for those within the same containment region. These

Packhouse is in this Region	Bins are going to orchards in the same region	Empty bins are going to orchards in this region status of movement and any conditions that apply		
		Recovery	Containment	Exclusion
Recovery	<b>Allowed</b> 1. Bins must be sanitised 2. Bin covering recommended		<b>KVH authorisation required</b> 1. Bins must be sanitised 2. Bin covering required. 3. Select and document option 1,2 or 3  First load must be inspected by KVH appointed auditor	<b>KVH authorisation required</b> 1. Bins must be sanitised 2. Bin covering required. 3. Select and document option 1,2 or 3 4. Packhouse appointed inspector to inspect every bin and label as inspected.  First load must be inspected by KVH appointed auditor
Containment	<b>Allowed</b> 1. Bins must be sanitised. 2. Bins must be securely covered when trucked.	<b>Allowed</b> 1. Bins must be sanitised. 2. Bins must be securely covered when trucked.	<b>KVH authorisation required</b> 1. Bins must be sanitised 2. Bin covering required. 3. Select and document option 1,2 or 3  First load must be inspected by KVH appointed auditor.	<b>KVH authorisation required</b> 1. Bins must be sanitised 2. Bin covering required. 3. Select and document option 1,2 or 3 4. Packhouse appointed inspector to inspect every bin and label as inspected.  First load must be inspected by KVH appointed auditor
Exclusion	<b>Allowed</b> 1. Bins must be sanitised 2. Bin covering recommended	<b>Allowed</b> 1. Bins must be sanitised 2. Bins must be securely covered when trucked.	<b>Allowed</b> 1. Bins must be sanitised 2. Bins must be securely covered when trucked.	<b>KVH authorisation required</b>

movements and the process around the movement should be outlined in detail in the packhouse Ps-V Risk Management Plan and signed off by KVH prior to season start.

- Seek KVH authorisation for movement of full bins:
  - from Recovery region orchards to Containment or Exclusion region packhouses

- From Containment region orchards to Exclusion region packhouses.
- Nominate a person to check any visible plant material has been removed prior to transport.
- Securely cover bins during transport and use curtainsiders or tautliners to truck bins to Containment or Exclusion regions from Recovery regions.
- Maintain records of the above and have available for audit.

There are no restrictions on movement, across all regions, of processed and packaged fruit for domestic consumption or export.

The table below refers to full bins of fruit being moved from orchard to packhouse at time of harvest or from packhouse to fruit processors.

Source Region Orchard is in this region	Within same region	Destination region –packhouse is in this region - Status of movement and any conditions that apply		
		Recovery	Containment	Exclusion
Recovery	<i>Allowed - bin covering recommended.</i>		<b>Authorisation from KVH required for full harvest bins</b>	<b>Authorisation from KVH required</b>
			<i>Allowed for fruit for processing– curtain siders, tautliner – requirement)</i>	
Containment	<i>Allowed - Complete bin covering— requirement.</i>	<i>Allowed - Complete bin covering requirement</i>	<i>Allowed - Complete bin covering—requirement.</i>	<b>Authorisation from KVH required</b>
Exclusion	<i>Allowed - (bin covering— recommended) Required where a controlled area is in place.</i>	<i>Allowed - Complete bin covering—requirement.</i>	<i>Allowed - Complete bin covering—requirement</i>	<b>Authorisation from KVH required</b>
Outside any region	<b>Authorisation from KVH required</b>			

#### Other

- For reject fruit movements for animal feed or bulk disposal, please refer to [KVH Protocol: Harvest Packing and Reject Fruit](#).
- For reject fruit movements for fruit processing please refer to [KVH Protocol: Processors](#).

Please contact KVH on 0800 665 825 or [info@kvh.org.nz](mailto:info@kvh.org.nz) if your intended bin movement is not covered in the permitted movements as detailed in the above tables.

#### Non-compliance

- Any instances of non-compliance during the harvest season will be investigated by KVH.
- If a failure to comply with the protocol is identified the Packhouse involved may not be able to move any further bins, other than new bins, into that Containment or Exclusion region for the remainder of the season.
- In addition, if there are any instances of serious non-compliance an investigation will be undertaken by KVH to determine whether enforcement action under the NPMP should be undertaken.

Kiwifruit Vine Health Incorporated (KVH) makes no warranty or representation as to the accuracy or completeness of the information, photographs or other published material in this publication. KVH shall not be liable to any person for loss, injury or damages arising from a person's reliance on the published material. Published material authored by a person other than KVH reflects the view of the author and not necessarily the view of KVH. The published material may be subject to copyright and shall not be reproduced in any manner without first obtaining the permission of KVH.