

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.
- 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.
- 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.

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 before the first load leaves the packhouse.
 - 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

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.

NB: Neither empty nor full bins must be moved from the North Island to the South Island unless under extenuating circumstances and KVH permission has been sought.

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	Allowed 1. Bins must be sanitised 2. Bin covering recommended		KVH authorisation required 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	KVH authorisation required
Containment	Allowed 1. Bins must be sanitised. 2. Bins must be securely covered when trucked.	Allowed 1. Bins must be sanitised. 2. Bins must be securely covered when trucked.	KVH authorisation required 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.	KVH authorisation required
Exclusion	Allowed 1. Bins must be sanitised 2. Bin covering recommended	Allowed 1. Bins must be sanitised 2. Bins must be securely covered when trucked.	Allowed 1. Bins must be sanitised 2. Bins must be securely covered when trucked.	KVH authorisation required

Empty bins

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 movements and the process around the movement should be outlined in detail in the packhouse Psa-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>		Authorisation from KVH required for full harvest bins <i>Allowed for fruit for processing– curtain siders, tautliner – requirement)</i>	Authorisation from KVH required
Containment	<i>Allowed - Complete bin covering— requirement.</i>	<i>Allowed - Complete bin covering requirement</i>	<i>Allowed - Complete bin covering—requirement.</i>	Authorisation from KVH required
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>	Authorisation from KVH required
Outside any region	Authorisation from KVH required			

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

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.](#)

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.

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