

# Winter protection from Psa-V



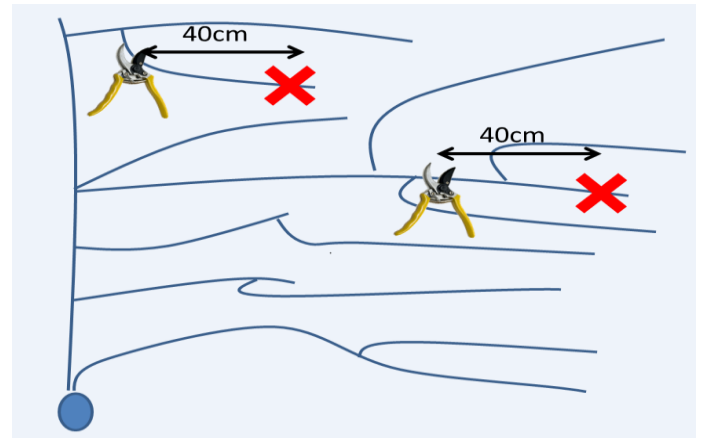
## Orchard programme

- Maintain spray protection through winter.
- Consider leaf scars, pruning wounds, new grafts and frosted tissue.
- Apply copper before and after winter pruning.
- Maximise spray coverage - use super-spreaders and alternate direction of sprayer travel.
- Use the KVH *Psa-V Risk Model* for work planning.
- Prune and graft in low risk weather.

## Staff awareness

Ensure all staff understand your Psa-V rules and;

- Observe orchard hygiene.
- Sanitise tools (preferably between vines).
- Can identify Psa-V symptoms.
- Remove infection back to clean wood (40 cm recommended).
- Treat large cuts with wound protectants containing a bactericide.
- Identify orchard areas with Psa-V symptoms to supervisors.



## Canopy structure

- Prune to create a flat open structure.
- Choose wood requiring minimal summer intervention.
- For males –reduce height, space canes and keep separated from female vines.  
Graft in additional/different males where needed.

## Post pruning

- Mulch finely & consider the use of digesters to accelerate breakdown of prunings (Psa-V can survive here for 15+ weeks!).
- Apply copper after pruning to protect pruning wounds, cracks and breaks.

## Orchard biosecurity

- Use clean budwood.
- Source healthy plants.
- Comply with KVH protocols for budwood and nursery stock movement.  
*(The KPCS -Kiwifruit Plant Certification Scheme – Core Standard launched 28 May 2014).*

## Orchard environment

- Improve orchard shelter and/or drainage to support plant health.



Refer - KVH *Seasonal Management guide: Autumn and Winter 2014* [www.kvh.org.nz](http://www.kvh.org.nz)

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