**SPRAYING**

- Develop a year round spray plan which considers orchard Psa and weather risk (use tools at www.kvh.org.nz).
- Include KVH recommended products with different modes of action. Always use label rates. Check spray coverage.
- Through spring, spray proactively to minimise leaf spot and flower bud infection. Maintain copper cover, include Aureo Gold and Actigard and consider CPPU. Bactericides suit high-risk events.
- Apply protection following pruning, thinning and girdling.
- In autumn use copper and Actigard™ to protect fruit stalls and leaf scars.
- Apply winter rate copper after winter pruning and at bud break.

**VINE MANAGEMENT**

- Develop and maintain a flat open canopy which supports good spray penetration. Choose moderate-to-low vigour wood. This requires less pruning, which reduces potential Psa entry points.
- For HW and GI4 blocks with a history of flower bud infection, trunk girdle 30 days before flowering.
- Only prune, girdle and graft in dry weather.

**BACTERICIDES**

- Apply in high risk orchards to reduce inoculum prior to, or immediately after, high risk weather events. Leaf surface area is considered sufficient when early leaves reach 25-30mm in diameter (50c coin).
- Use AI nozzles and drift reducing adjuvants. Do NOT spray any flowers (male or female) or fruit. One pre-flower Kasumi™ is allowed. Additional bactericides (Kasumi™ or KeyStrepto™) use requires a JA. Follow user guides.

**BIO-BACTERICIDES**

- Use once sufficient foliage has developed from budburst up to 6 weeks after flowering. Apply prior to high-risk weather to protect against leaf spot and bud browning. Use in a programme with alternative products. Do not apply closer than 10 days after Kasumi; or 14 days after Nordox. DO NOT TANK MIX with coppers. Adjuvant use is recommended. Maximum 10 applications/year.
- Follow user guide.

**BIOLOGICALS**

- More suited to lower risk situations. For BOTRY-Zen® use sufficient water to achieve run-off. Apply KiwiVax® soil root drench in damp conditions when temperatures are above 10°C.
- Follow user guide.

**PSA SYMPTOMS**

- Monitor regularly. Remove infected material promptly to reduce the risk of Psa spread.

- Red/orange exudate
- Shoot and cane die-back
- Leaf spot
- Flower bud infection