

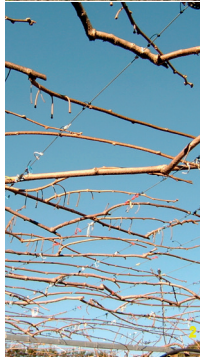


Winter 2020 Spray Guide - Organic - all varieties



Timing	Purpose	Product	Rate/100 L	Water rate/ Ha	PHI (DAYS)	REI (HRS)	Notes
 Immediately post harvest - KiwiStart/ early mainpack	Psa	Organic Copper	Nordox™ 75WG - 37.5g Champion® - 70g	1500-2000L	7	WFD	Apply after harvest to protect picking scars. Apply at summer rates during KiwiStart/early mainpack periods (when leaf condition is good), moving to winter rates as leaf condition deteriorates. Maximum of 3kg/ha active copper permitted per year.
	Scale	Excel Organic Oil*	1L (1%)	1500-2000L	7	WFD	This suggested 1% Excel Organic Oil® application should occur if scale was a problem last harvest - check with your Grower Services Representative if you are unsure. This application requires a Zespri® JA as organic oil is not currently allowed in the postharvest period of the Zespri® CPS.
 Post harvest/ leaffall	Psa	Trichoderma atroviride	KiwiVax® - 20g	1000-2000L	3	WFD	Apply after harvest to the rootzone of kiwifruit plants in damp conditions during periods of active root growth. Soil temperatures must be above 10°C. Three applications per year are recommended, either split or combined in bud phase (i.e. between budbreak and flowering) and post harvest for active root colonisation.
	Psa	Organic Copper	Nordox™ 75WG - 55g	1000L	7	WFD	Apply after harvest to protect picking scars. Apply at winter rates as leaf condition deteriorates. Maximum of 3kg/ha active copper permitted per year.
 Dormancy	Psa	Organic Copper	Nordox™ 75WG - 55g	1000L	7	WFD	Apply winter rates of copper after pruning and at 4-6 week intervals over dormancy including immediately prior to budbreak. Maximum of 3kg/ha active copper permitted per year.
	Psa/Scale	Nordox™ 75WG (plus Excel Organic Oil*)	Nordox™ 75WG - 37.5g (+ Excel Organic Oil® - 1L)	1000L	7	WFD	Plant and Food Research trials between 2014-2016 suggest applying summer rates of Nordox™ (37.5g/100L) plus 1% Excel Organic Oil® in the last week of August (and mid/late October) are effective at controlling overwintering scale populations. Also consider cultural control options such as removing large crowns during winter pruning and lifting undercover shelter when spraying. Spray orchard surrounds with 1% Excel Organic Oil® just before or after kiwifruit budbreak if this is a significant source of scale - high risk shelter species include poplars, willows and Pittosporum species. Maximum of 3kg/ha active copper permitted per year.

DISCLAIMER: This is a guide only provided to help with your decisions regarding pest, disease & Psa options. We make no warranty, representation or guarantee of the accuracy of the information due to environmental pressures, conditions & mechanical/human error and will not be responsible for any loss arising from reliance on the information. Please contact Zespri or your preferred supplier for any updated information or advice.

Estimated Spray Date	Copper No1	/ /	Copper No2	/ /	Copper No3	/ /	Copper No4	/ /
Estimated Spray Date	Scale No1	/ /	Scale No2	/ /	Other	/ /	Other	/ /
Estimated Spray Date	Other	/ /	Other	/ /	Other	/ /	Other	/ /
Estimated Spray Date	Other	/ /	Other	/ /	Other	/ /	Other	/ /

Key

REI Restricted Entry Interval	WFD When Fully Dry
PHI Pre-Harvest Interval (days)	JA Zespri® Justified Approval
CPS Crop Protection Standard	

Notes

- This spray guide covers the period immediately postharvest to budbreak referred to as "post harvest" and "dormancy" in the Zespri® Crop Protection Standard (CPS).
- Not all products that are listed in the CPS are listed in this spray guide - refer the CPS for all allowed products for use in this period.
- Applying agrichemical sprays near unharvested crop increases the chance of residue detection due to spray drift and/or failure to clean spray tanks effectively.** ALL spraying should be conducted with caution and in ideal spraying conditions. Agrichemical residues on fruit at harvest may result in the destruction of the crop at the growers cost.
- Monitor for Psa regularly. Remove infected material promptly to reduce the risk of Psa spread. Always sanitise tools between vines with proven BioGro™ certified products, e.g. Aussan L44. Refer to KVH for more information on product efficacy.
- Mixing copper with products that contain oils, penetrants, chelating agents, amino acids and/or nitrogen may result in phytotoxicity.
- All rates listed are for dilute (high volume) spraying only (i.e. spraying up to the point of run-off or full coverage). For concentrate (low volume) spraying, adjust dilution rate accordingly (refer to the "Spray Tech Box" on Zespri® Canopy website).

Zespri® Requirements



- Zespri® requires all agricultural compounds applied to the vines, orchard floor, shelter or outside the boundary shelter used in the management of plants, pests, diseases or animals to be recorded in the Zespri® Spray Diary. This includes pesticides, herbicides and foliar fertilisers.
- Once the previous seasons Spray Diary is submitted for Final Audit, "new seasons" spray applications must be recorded in Spray Diary.
- Only products approved by BioGro™ and listed in the Zespri® Crop Protection Standard are allowed to be used without the prior approval of a Justified Approval (JA).
- Products not listed in the CPS may be allowed under JA by Zespri® under certain circumstances - refer to Zespri® for more information (spraydiary@zespri.com).
- Products must be applied at the label rate and as recommended. Where there is a rate/and or timing conflict between the label and the CPS the CPS will apply.
- Growers must take all practical and reasonable steps to protect bees from the risks of agrichemical sprays.
- The GlobalG.A.P Management System Owner (MSO) is solely responsible for ensuring the spray diary is accurate and complete, regardless of who enters the information.

