






Spring 2020 Spray Guide: Organic - all varieties



	Timing	Purpose	Product	Rate/100 L	Water rate/Ha	PHI (DAYS)	REI (HRS)	Notes
	Advanced Bud Swell	Psa	Organic Copper	Nordox™ 75WG - 37.5g	600-700L	7	WFD	Apply summer rates of Nordox™ 75WG just prior to bud cracking.
	Visible Leaves – Green Tip	Psa protection on emerging shoots	Organic Copper	Nordox™ 75WG - 37.5g ChamplON® - 70g	600-700L	7	WFD	From bud break, apply summer rates at regular intervals to protect expanding leaves, shoots and flower buds. Avoid spraying open flowers. Spray in good drying conditions only.
		Scale	Organic Mineral Oil	Excel Organic Oil - 1L	600-700L	14	WFD	Apply just prior to or just after budbreak. Up to 2 x Excel Organic Oil applications (1%) are permitted by Zespri® during this period. Target leaders with this early application.
		Psa	Trichoderma atroviride	KiwiVax® - 200g/Ha	1000-2000L	3	WFD	Apply two applications to the rootzone of kiwifruit plants in damp conditions during periods of active root growth about six weeks apart. Soil temperatures must be above 10°C. Three applications per year are recommended, either split or combined in bud phase and post harvest for active root colonisation.
		Scale	Organic Mineral Oil	Excel Organic Oil - 1L	1000L	14	WFD	Apply when shoots 5-10cm long - Plant and Food Research trials indicate that Excel Organic Oil (1%) may be tank mixed with Nordox™ 75WG in 1000L water during mid-late October without damage. However, this was a trial only - mixing copper and oil may cause damage to the plant - it is recommended that this application is trialled on part blocks only. Tank mix at growers risk . Up to 2 oil applications are permitted by Zespri® during this period.
	Leaf development prior to flowering	Psa protection on emerging shoots	Organic Copper	Nordox™ 75WG - 37.5g ChamplON® - 70g	1000-1500L	7	WFD	From bud break, apply summer rates at regular intervals to protect expanding leaves, shoots and flower buds. Avoid spraying open flowers. Spray in good drying conditions only. This copper spray may be alternated with or replaced with Aureo Gold® (50g/100L) - do not apply Aureo Gold® within 14 days of copper.
	Period immediately before flowering	Psa	Organic Copper	Nordox™ 75WG - 37.5g ChamplON® - 70g	1000-1500L	7	WFD	From bud break, apply summer rates at regular intervals to protect expanding leaves, shoots and flower buds. Avoid spraying open flowers. Spray in good drying conditions only. This copper spray may be alternated with or replaced with Aureo Gold® (50g/100L) - do not apply Aureo Gold® within 14 days of copper.
	Flowering	Sclerotinia	Timorex® Gold	100ml	1500L	Flowering period only	WFD	Avoid excessive run-off and mixing with oil products. Apply as a preventative spray prior to or at early stages of infection at the start or end of flowering. Bee safe, but do not apply while bees are actively foraging.
		Leafroller	Bio-Bit® DF	50g	1500L	2	WFD	One spray for leafroller control may be applied during flowering. Bt is an effective product and can be used during flowering to protect the early fruit (important if flowering happens over an extended period). Bee safe, but do not apply while bees are actively foraging. It counts as 1 of the 4 leafroller sprays allowed in total before the monitoring period.
	90% Fruitset	Remember to record fruitset date in Spray Diary						

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	/ /	Leafroller No1	/ /	Leafroller No2	/ /
Estimated Spray Date	Sclerotinia No1	/ /	Sclerotinia No2	/ /	Other	/ /	Other	/ /
Estimated Spray Date	Other	/ /	Other	/ /	Other	/ /	Other	/ /
Other Key Dates	Bud Burst	/ /	Pre-Flower Girdle	/ /	Bees In	/ /	Full Bloom	/ /
Other Key Dates	Bees Out	/ /	Fruit set	/ /	Other	/ /	Other	/ /

Key

REI Restricted Entry Interval

WFD When Fully Dry

PHI Pre-Harvest Interval (days)

Notes

- This spray guide covers the period immediately pre-budbreak to fruitset referred to as the “dormancy”, “bud phase” and “flowering” 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.
- For HW blocks with a history of flower bud infection, a trunk girdle 30 days before flowering is an effective Psa management tool.
- Maintain an open canopy up to and after flowering to reduce sclerotinia pressure. Remove prunings from the orchard and maintain a long sward during flowering.
- Do not apply Aureo Gold® within 14 days of copper.
- 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.
- Mixing copper with products that contain oils, penetrants, chelating agents, amino acids and/or nitrogen may result in phytotoxicity or fruit staining.
- 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 plant nutrition, pests, diseases or animals to be recorded in the Zespri® Spray Diary. This includes pesticides, herbicides, compost, soil and foliar applied fertilisers.
- 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 complete a Property Spray Plan which summarises how to responsibly manage agrichemical use on the property.
- 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.
- Remember to record the fruitset date in Spray Diary at the end of the flowering period.
- Refer to Section 7 of the Zespri® CPS for HSNO Classification and MSD sheets for all products listed.

