

BLUEBERRY PEST AND DISEASE CONTROL

Spray usage

Blueberries have a consistent history in New Zealand of having few pest and disease issues. This applies especially to newly planted areas that are likely to be largely free of serious pest and disease issues for several years. Specific programmes may often be required for particular pests and diseases that are causing problems on some varieties or on some blocks. It is important to target those areas that have been identified following regular monitoring. Data from the previous season is also important in deciding what treatments are appropriate. For further information refer to the Blueberry Pest and Disease manual.

The following programme is designed to assist with control of these specific issues. Growers should mix and match treatments according to the targeted pest and disease issues and application should focus on the problem areas

Stage	Disease/Pest	Chemical options (All rates per 100 litres or as specified on the label)	Alternatives
Bud movement	Leaf spots, anthracnose, Bacterial blast, rust Scale Phytophthora	Chlorothalonil copper spray #chlorpyrifos and oil #phosphorous acid	
Over flowering	Anthracnose, botrytis Bronze beetles	Switch (Note 3) Lannate L 120ml (Note 1)	captan wp 125g flo 200ml
Post blossom*	Anthracnose Rust Mealy bug, scale Leaf roller, thrips Phytophthora Bronze beetles	Switch (Note 3) copper spray label rates Movento #spinosad 40ml #phosphorous acid (Note 2) Lambda cyhalothrin 4ml	Lannate L 120ml
Post harvest as required	Leaf spot, rust, blast Phytophthora	copper spray label rates #phosphorous acid	

No label claim exists for this product. Any use is at grower's own risk

* Only choose chemicals suited to the markets intended

Note 1: Lannate should only be applied in the evening after bees have stopped flying

Note 2: Phosphorous acid has caused some phytotoxicity on fruit of some varieties. Do a check before using generally

Note 3: Do not use more than 2 applications

2019/2020 BLUEBERRY WITHHOLDING PERIODS

Blueberries New Zealand Inc

The following withholding periods apply for materials used on blueberries for **the markets specified** and are the times that must elapse between the last spray and harvesting in **whole** days. If sending to a combination of markets, the longest withholding period applies.

Chemical	Example Product	NZ		Australia		Taiwan		Codex	
		Tolerance (mg/kg)	Withholding period (days)	Tolerance (mg/kg)	Withholding period (days)	Tolerance (mg/kg)	Withholding period (days)	Tolerance (mg/kg)	Withholding period (days)
#abamectin	Avid	NL	7	0.02	Note 1	0.02	BF	NL	BF
captan	Captan	10	1	20	1	20	1	20	1
#carbendazim	Goldazim	5	3	NL	Note 1	2	NS	1	NS
#buprofezin	Applaud	NL	NS	0.05	NS	NL	BF	NL	BF
#chlorothalonil	Bravo	10	7	10	7	1	NS	NL	BF
#chlorpyrifos	Lorsban	0.2	NS	NL	Note 1	1	NS	NL	BF
copper sprays:	Nordox	Exempt	Nil	Exempt	Nil	Exempt	Nil	NL	BF
cyprodinil/fludioxonil	Switch	0.5/0.5	28	3/3	28	3/2	3	10/2	3
#didecyldimethylamm onium chlorine	Sporekill	Exempt	0	NL	Note 1	NL	BF	NL	BF
#emamectin benzoate	Proclaim	NL	7	0.07	7	NL	BF	NL	BF
#lambda-cyhalothrin	Karate	NL	28	0.2	14	1	7	0.2	14
mancozeb:	Manzate	7	14	15	14	5	14	NL	BF
methomyl	Lannate	0.5	2	2	2	2	2	NL	28
methoxyfenozide	Prodigy	0.8	7	2	7	4	3	4	3
#milbemectin	Mit E Mec	NL	7	NL	7	0.2	3	NL	BF
#phosphorous acid	Phosgard	Exempt	0	NL	Note 1	NL	0	NL	0
propargite	Omite	3	3	NL	Note 1	NL	BF	NL	BF
#propiconazole	Tilt	NL	BF	2	NS	2	NS	NL	BF
#pyrethrins	Pyrethrum	1	NS	1	NS	NL	NS	NL	BF
#spinetoram	Sparta	NL	3	0.5	1	0.2	3	0.2	3
#spinosad	Success	NL	NS	0.7	1	0.4	7	0.4	7
spirotetramat	Movento	0.7	7	2	7	NL	BF	1.5	7
#sulfoxaflor	Transform	NL	14	0.7	7	NL	BF	NL	BF
thiram	Thiram	7	7	15	7	5	10	NL	BF
#ziram	Mizar	7	28	15	28	5	28	NL	BF

Other materials and other export destinations: Use products only before flowering or check with Geoff Langford of Berryworld, ph 021 1420619, e-mail Geoff.Berryworld@gmail.com about use options. Mineral oils and biological products are not usually covered by residue tolerances and are normally exempt

BF: Use only before flowering or after harvest NS: No information available to set a withholding period NL: Not listed – normally non detectable is required although a default level of 0.1mg/kg applies in New Zealand and Canada

No label claim exists for this product. Any use is at grower's own risk

Note 1: Australia will normally accept tolerances established in New Zealand on imported produce

The above notes on pest and disease control and pesticide residues are presented after consideration of the information available. However no assurances can be given on pest and disease control, or that plant damage will not result from use of this information. No assurances are given that produce, treated with chemicals according to the above list will be acceptable to the countries to which it may be exported. Berryworld Ltd and Blueberries New Zealand Inc disclaim all liabilities arising from the use of the above information. If in doubt contact your exporter or adviser.

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