

Strawberry withholding periods in New Zealand – August 2024

The following list of pesticides is not exhaustive, but is a guideline developed to assist NZ strawberry growers.

FUNGICIDE	Product	Resistance group	WHP	Residue limit (ppm)	broad spectrum	botrytis	anthrac-nose	rhizopus	powdery mildew	Others
azoxystrobin	Amistar	11	BF	0.1*			✓		✓	anthracnose
myclobutanil	Validus	3	BF	0.1*						leaf spots
prochloraz	Octave	3	BF	0.1*			✓			Some toxicity to predatory mites
metalaxyl	Ridomil	4	BF	2						phytophthora. Harmful to predatory mites
phosphorous acid	Perk Supa	33	1	exempt						phytophthora
captan	Captan	M4	1	10	✓					
carbendazim	Goldazim	1	1	5	✓					toxic to predatory mites
chlorothalonil	Bravo	M5	1	10	✓					some toxicity to predatory mites
copper sprays	Nordox	M1	1	exempt	✓					
mancozeb	Dithane	M3	14	7	✓					moderately harmful to <i>persimilis</i>
thiram	Thiram	M4	2	7	✓					
cyprodinil	Switch	9	3	1		✓				
fludioxonil		12		1		✓				
fenhexamid	Teldor	17	1	3		✓				
fenpyrazamine	Prolectus	17	7	0.1*		✓				
iprodione	Rovral	2	1	10		✓				concerns about resistance
polyoxin D zinc	Esteem	19	1	exempt		✓			✓	higher rate for botrytis
<i>Trichoderma atroviride</i>	Sentinel	unknown	0	exempt		✓				check compatibility with other fungicides
<i>Aureobasidium pullulans</i>	Botector	competition	1	exempt		✓				check compatibility with fungicides; apply in evening
<i>Bacillus amyloliquefaciens</i>	TripleX	competition	0	exempt		✓				check compatibility with other fungicides
<i>Ulocladium oudenmansii</i>	Botryzen	competition	1	exempt		✓				check compatibility with other fungicides
dicloran	Botran	14	0	10				✓		
potassium bicarbonate	Ecocarb, HML32		1	exempt					✓	
sulfur	Microthiol Dispress	M2	1	exempt					✓	also powdery mildew

The 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 tables will be acceptable to the countries listed. Berryworld Ltd and Strawberry Growers 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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Mortality to predatory mites	
0–25%	
25–50%	
50–75%	
75–100%	

INSECTICIDE	Product	Resistance group	WHP	Residue limit (ppm)	broad spectrum	aphids	whitefly	caterpillars	thrips	mites	Effect on predatory mites	Notes
buprofezin	Ovation	16	BF	0.1*			✓					IGR, immatures only. <i>persimilis</i> -somewhat harmful; <i>cucumeris</i> - safe
clofentezine	Apollo	10A	BF	0.1*						✓		mite eggs
etoxazole	Paramite	10B	BF	0.1*						✓		eggs and immatures, adults; translaminar. Harmful to persimilis.
fenpyroximate	Pyromite	21	BF	0.1*						✓		
pyriproxyfen	Admiral	7C	BF	0.1*			✓					IGR, immatures only. Slightly harmful to persimilis, short residual
pymetrozine	Chess	9B	BF	0.1*		✓	✓					feeding inhibitor, slow acting.
spiromesifen	Oberon	23	BF	0.1*						✓		Also cyclamen mite.
spirotetremat	Movento	23	BF	0.1*		✓		✓		✓		systemic in plant
abamectin	Avid	6	3	0.02						✓		translaminar
azadiractin	Neem products	18B	1	exempt		✓	✓		✓			IGR, immature stages only. Slightly harmful to persimilis.
<i>bacillus thuringiensis</i>	Delfin	11B2	1	exempt				✓				spray in evening; sun inactivates
<i>beauvaria bassiana</i>		fungus	1	exempt	✓							entomopathic fungus on insects and mites. Needs high humidity, 15–32°C. Not compatible with fungicides
carbaryl	Sevin	2	1	3	✓							mirids; toxic to bees
cyantraniliprole	Benevia	28	2	0.1*		✓	✓	✓	✓			nontoxic to persimilis, some toxicity to cucumeris
methomyl	Lannate	1	2	0.5	✓							toxic to bees
milbemectin	Mit E Mec	6	3	0.2						✓		active on eggs
pirimicarb	Pirimor	1	1	1		✓						
pyrethrins	ZetaPy	3	1	1	✓							spray in evening; sun inactivates. Harmful to predators but short residual
spinetoram	Sparta	5	2	0.1*				✓	✓			
spinosad	Entrust	5	5	0.1*				✓	✓			
sulfoxaflor	Transform	4C	7	0.1*		✓						and whitefly
sulfur	Microthiol Dispress	M2	1	exempt						✓		Moderately harmful to predatory mites; short residual

Abbreviations: BF = use only BEFORE the first flowering 0.1* = no residue level listed for strawberries. If no residue tolerance is established, the 'default' is 0.1ppm

Growers wishing to use other products must look up tolerance set for strawberries for the intended market destination, and work out withholding periods using residue testing.

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Strawberry withholding periods in Taiwan and for Codex – August 2024

FUNGICIDE	Product	TAIWAN		CODEX	
		DTH	Residue tolerance (ppm)	DTH	Residue tolerance (ppm)
captan	Captan	1	8	1	15
carbendazim	Goldazim	2	3	2	1
chlorothalonil	Bravo	?	2.5	3	5
copper sprays	Nordox	1	exempt	BF	not set
cyprodinil	Switch	3	5	2	10
dicloran	Botran	BF	not set	BF	not set
fludioxonil	Switch	3	2	2	3
fenhexamid	Teldor	BF	--	1	10
fenpyrazamine	Prolectus	1	3	1	3
iprodione	Rovral	2	5	1	10
mancozeb	Dithane	14	5	14	5
phosphorous acid	Perk Supa	?	not set	?	70
polyoxin D zinc	Esteem	1	exempt	BF	not set
thiram	Thiram	2	5	2	5

INSECTICIDE	Product	TAIWAN		CODEX	
		DTH	Residue tolerance (ppm)	DTH	Residue tolerance (ppm)
abamectin	Avid	3	0.02	3	0.15
azadiractin	Neem products	1	exempt	?	not set
bacillus thuringiensis	Delfin	1	exempt	1	not set
carbaryl	Sevin	?	0.5	BF	not set
cyantraniliprole	Benevia	2	1.5	2	1.5
methomyl	Lannate	2	2	BF	not set
milbemectin	Mit E Mec	3	0.2	?	not set
pirimicarb	Pirimor	BF	not set	1	1
pyrethrins	ZetaPy	?	not set	?	not set
spinetoram	Sparta	?	1	2	0.15
spinosad	Entrust	1	1	14	not set
sulfoxaflor	Transform	3	0.5	3	0.5
sulfur	Microthiol Dispress	1	exempt	?	not set

'Codex' tolerances are usually accepted by China, Hong Long, Indonesia, Korea Malaysia, Phillipines Singapore, Thailand and Vietnam

