

Table 2: Products with label claims for control of a range of insect pests including potato psyllid on potatoes in New Zealand (revised November 2009). Note: the information presented on overseas label claims for psyllid control is not a recommendation for use of the product. Growers must comply with label directions and withholding periods when using these compounds to ensure residues in the treated potatoes comply with the maximum residue limits.

IRAC mode of action group number, insecticide group	Notes on resistance management recommendations for each mode of action (MoA) group	Active ingredient (plus trade name, if label claim for potato psyllid control in New Zealand)	Application rates (check and follow label instructions)	Withholding period	Aphids	Potato tuber moth	Other caterpillars	Potato psyllid
1A Carbamate	Green peach aphid, melon aphid, tomato fruitworm. Rotate these insecticides with those in other MoA groups	Carbaryl	2.4 - 4.8 litres / Ha or 240 ml / 100 litres	1 day		Yes	Yes	Note 1
		Pirimicarb	500 g in 200 - 400 litres / Ha	Nil	Yes			
1B Organophosphate	Green peach aphid, melon aphid, tomato fruitworm. Rotate these insecticides with those in other MoA groups	Acephate	See label	7 days	Yes	Yes		Note 2
		Azinphos-methyl	2.8 litres / Ha	14 days		Yes		
		Dimethoate	See label	14 days	Yes			
		Methamidophos	See label	7 days	Yes	Yes	T	Note 1
		Phorate (granule)	11 kg / Ha in furrow at planting	13 weeks	Yes			Note 1
3A Pyrethroids	Green peach aphid, melon aphid, tomato fruitworm. Rotate these insecticides with those in other MoA groups	Deltamethrin	See label	14 days		Yes	T	
		Lambda-cyhalothrin	40 ml / Ha in at least 500 litres water	14 days		Yes		Note 1
		Esfenvalerate	See label	Not given			T & CW	Note 1
4A Neonicotinoids	Green peach aphid, melon aphid, tomato fruitworm. Rotate these insecticides with those in other MoA groups	Imidacloprid (seed treatments)	See label	Not given	Yes			Note 1
		Thiamethoxam (in furrow application)	See label	90 days	Yes			Note 1
5 Spinosyns	Tomato fruitworm. Rotate these insecticides with those in other MoA groups	Spinosad	See label	7 days		Yes	T	Note 1
6 Avermectins		Abamectin						Note 1
9B Pyridine azomethine	Green peach aphid, melon aphid. Rotate these insecticides with those in other MoA groups	Pymetrozine	200 g / Ha	7 days	Yes			
16 Buprofezin		Buprofezin						Note 2
23 Lipid biosynthesis inhibitors	May be applied up to a maximum of 2 times in total per crop cycle. At other times use an insecticide from a different chemical class and consider biological control.	Spiromesifen (Oberon®)	600 ml / Ha	7 days				Yes Note 3
		Spirotetramat (Movento®)	350 ml / Ha, plus 1L / Ha Partner	35 days				Yes

“CW” Label claim for control of cutworm

“T” label claim for control of these pests on tomatoes

“V” Label claim for control of these pests on vegetables

“Note 1” Overseas label claim for control of potato psyllid

“Note 2” Overseas label claim for control of psyllid (note: no specific claim for potato psyllid)

“Note 3” Only approved for field use on potatoes in accordance with the special emergency approval controls and emergency management plan

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