

# Beneficial insects and the toxicity of pesticides commonly used on grapes



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Active	Example trade names	Bees	Damsel bug	Lacewing	Ladybird	Parasitic wasp	Pirate bug	Predatory fly	Predatory mites
Abamectin	Voliam Targo		3		3		4	4	3
Azoxystrobin	Amistar				1		1	1	1
Bacillus thuringiensis	Dipel	1		1	1		1	1	1
Bifenthrin	Talstar			4	4		4	4	4
Boscalid	Filan						1		1
Captan	Captan			1			1	1	1
Carbaryl	Bugmaster				4				
Chlorantraniliprole	Altacor				1		1		1
Chlorothalonil	Bravo, Barrack	1			1		1	1	1
Chlorpyrifos		4	4	4	3		4	4	4
Clothianadin	Samurai	4			4		4		3
copper sulphate									
Cyflufenamid	Flute			1	1		1		1
Cyprodinil	Switch	1			2		1	2	1.5
Diazinon	Diazol	4		4		4	4	3	3
Dimethomorph	Zampro						1	3	1
Dithianon	Dragon	1					1		1
Emamectin Benzoate			3	1			3	4	4
Etoxazole	Paramite						2	1	4
Fenhexamid	Teldor	1					1	2	1
Fipronil	Regent	4	4	4	4		4		
Fludioxonil	Switch, Starling, Miravis Prime							4	1
Fluopyram	Luna Experience	Information pending							
Indoxacarb	Avatar	4		3	3		2	3	1
Iprodione	Rovral	1					1	1	2
Malathion	Fyfanon	4			2	4	4	4	3
Mancozeb	Dithane, Rainshield, Neotec	1	1	1	1		2	2	3
Mandipropamid							4		
Metalaxyl							2	1	4
Methomyl		4	4	4	4	4	4	4	4
Pyraclostrobin	Cabrio								1
Pyriproxyfen	Trivor						2	1	2
Spinetoram	Delegate	4	1	3	1		4	4	4
Spinosad	Eco-naturalure	4		1	1		3	4	2
Spirotetramat	Movento	1	1	2			1	1	3
Sulfoxaflor	Transform	1	2	2	4		4	4	1
Sulphur	Thiovit Jet				1		2		4
Tau fluvalinate	Mavrik Aquaflo	1					4	4	4
Triadimefon							1	2	1
Trifloxystrobin	Flint	1		1			1	1	1
Zineb							1	1	1

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