

Apple and Pear Residue Testing

A Comparison of Residues
tested as part of the

Apple and Pear Program (operated by
NRS – DAFF)

Imported Food Scheme (operated by
AQIS)

New Zealand Residue Standards (not
tested)

Table 2: Pesticide Screen

Pesticide or contaminant grouping	Chemical	NRS LOR¹ mg/kg	MRL² for APPLES mg/kg	MRL² for PEARS mg/kg	NZ MRL
Acaricides	bifenazate	TBA	2	2	-
	chlorfenapyr	0.1	0.5	0.5	-
	etoxazole	TBA	0.2	0.2	-
	fenpyroximate	0.05	0.3	0.3	-
	hexythiazox	0.05	1	1	-
	imidacloprid	0.05	0.3	NL	-
	indoxacarb	0.1	2	2	0.5
	methomyl	0.02	1	3	1
	propargite	0.1	3	3	3
	tau-fluvalinate	0.05	0.1	NL	-
	tebufenozide	0.1	1	1	0.5
	tebufenpyrad	0.05	1	1	-
	tetradifon	0.05	5	5	-
	thiacloprid	0.05	1	1	0.3
Carbamates	carbaryl	0.1	5	5	3
	fenoxycarb	0.1	2	2	-
	pirimicarb	0.1	0.5	0.5	0.5
Fungicides	boscalid	TBA	NL	NL	*0.05
	buprimate	0.05	1	NL	0.5
	captan	0.05	10	10	10
	carbendazim	0.2	5	5	2
	cyprodinil	0.01	0.05	0.05	0.01
	difenoconazole	0.05	0.3	0.3	-
	dithiocarbamates	0.2	3	3	7
	dodine	0.1	5	5	2
	fenarimol	0.05	0.2	0.2	0.1
	fluazinam	TBA	0.01	0.01	-
	fluquinconazole	TBA	0.3	0.3	-
	flusilazole	.05	0.2	0.2	-
	imazalil	0.1	5	5	-
	iprodione	0.1	3	3	-
	kresoxim methyl	0.05	0.1	0.1	*0.01
	myclobutanil	0.05	0.5	0.5	0.1
	penconazole	0.05	0.1	0.1	-
	thiabendazole	0.2	10	10	-
	trifloxystrobin	0.1	0.3	0.3	*0.02
Herbicides	diuron	0.05	0.5	0.5	-
	linuron	0.1	NL	NL	-
	simazine	0.05	0.1	0.1	-

Pesticide or contaminant grouping	Chemical	NRS LOR1 mg/kg	MRL2 for APPLES mg/kg	MRL2 for PEARS mg/kg	NZ MRL
Organophosphates	azinphos-methyl	0.05	2	2	2
	chlorpyrifos	0.05	0.5	0.5	0.2
	diazinon	0.05	0.5	0.5	0.5
	dimethoate	0.05	5	5	2
	fenitrothion	0.05	0.5	0.1	-
	fenthion	0.05	2	2	-
	maldison (malathion)	0.05	2	0.5	8
	methidathion	0.05	0.2	0.2	-
	omethoate	0.1	2	2	-
	parathion	0.05	NL	NL	-
	parathion-methyl	0.05	0.5	0.5	-
	prothiofos	0.02	0.05	0.05	*0.02
trichlorfon	0.05	0.1	0.1	-	
Synthetic pyrethroids	bifenthrin	0.02	0.05	0.5	-
	bioresmethrin	0.05	NL	NL	-
	cyfluthrin	0.02	NL	NL	-
	cyhalothrin	0.01	NL	NL	-
	cypermethrin	0.1	1	1	-
	deltamethrin	0.02	NL	NL	*0.01
	fenvalerate	0.05	1	1	-
	permethrin	0.05	NL	NL	1
	phenothrin	0.05	NL	NL	-
	Tau-fluvalinate	0.05	0.1	NL	-
Other Insecticides	chlorantraniliprole	TBA	NL	NL	0.3
	clothianidin	TBA	0.5	0.5	-
	spinosad	0.05	0.5	0.5	-
Scald Inhibitors	diphenylamine	0.05	10	7	10
Organochlorines	aldrin	0.05	0.05	0.05	-
	DDT	0.05	1	1	-
	dieldrin	0.05	0.05	0.05	-
	dicofol	0.05	5	5	3
	endosulfan	0.05	1	1	-
	heptachlor	0.05	NL	NL	-
	lindane	0.05	2	0.5	-
Antibiotics	Streptomycin Not tested in Australia	0	0	0	0.1

1. LOR = Limit of Reporting is the minimum concentration of a residue used for reporting purposes, as set by the NRS.
2. MRL = Maximum Residue Limit is the food standard applicable in Australia, as set in the Australian Food Standards Code.
3. NL = Any detection is considered to be a contravention of Australian Standards.

4. NZ MRLs per NZ Food Authority

ITEMS IN RED BOLD signify those chemicals that are in BOTH the Apple and Pear Industry NRS and Imported Food Scheme testing list (for all imported apples except those from New Zealand which are not tested by AQIS).

