



Apple residue testing annual datasets 2016–17

National Residue Survey, Department of Agriculture and Water Resources

Dataset abbreviations

LOR Limit of reporting.

MRL Maximum residue limit.

no limit No Australian standard applicable for the contaminant. The ‘as low as reasonably achievable’ principle applies. Detections at low levels are allowable.

not defined Standards are not defined in inedible matrixes (urine and faeces).

not set No Australian standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australia New Zealand Food Standards Code.

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Table 1 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2-phenylphenol	whole	0.05	Not Set	248	–	0
azoxystrobin	Whole	0.01	Not Set	248	–	0
benalaxyl	Whole	0.01	Not Set	248	–	0
bitertanol	Whole	0.01	Not Set	248	–	0
boscalid	Whole	0.01	2	248	0	0
bupirimate	Whole	0.01	1	248	0	0
captafol	Whole	0.05	Not Set	248	–	0
captan	Whole	0.05	10	248	0	0
carbendazim	Whole	0.01	Not Set	248	–	1
chlorothalonil	Whole	0.01	Not Set	248	–	1
cyproconazole	Whole	0.01	Not Set	248	–	0
cyprodinil	Whole	0.01	0.05	248	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
difenoconazole	Whole	0.01	0.3	248	0	0
dimethomorph (sum of E and Z isomers)	Whole	0.01	Not Set	248	–	0
dithianon	Whole	0.01	2	248	0	0
dithiocarbamates	Whole	0.2	3	248	4	0
dodine	Whole	0.01	5	248	0	0
epoxiconazole	Whole	0.01	Not Set	248	–	0
etridiazole	Whole	0.01	Not Set	248	–	0
fenarimol	Whole	0.01	0.2	248	0	0
fenhexamid	Whole	0.01	Not Set	248	–	0
fluazinam	Whole	0.01	0.01	248	0	0
fludioxonil	Whole	0.01	5	248	2	0
fluquinconazole	Whole	0.01	0.3	248	0	0
flusilazole	Whole	0.01	0.2	248	0	0
flutriafol	Whole	0.01	Not Set	248	–	0
hexaconazole	Whole	0.01	0.1	248	0	0
imazalil	Whole	0.01	5	248	0	0
iprodione	Whole	0.05	3	248	16	3
kresoxim-methyl	Whole	0.01	0.1	248	0	0
metalaxyl	Whole	0.01	0.2	248	0	0
metrafenone	Whole	0.01	Not Set	245	–	0
myclobutanil	Whole	0.01	0.5	248	0	0
oxadixyl	Whole	0.01	Not Set	248	–	0
paclobutrazol	Whole	0.01	1	248	0	0
penconazole	Whole	0.01	0.1	248	0	0
penthiopyrad	Whole	0.01	0.5	245	1	0
prochloraz	Whole	0.01	Not Set	248	–	0
procymidone	Whole	0.01	1	248	0	0
propiconazole	Whole	0.01	Not Set	248	–	0
prothioconazole	Whole	0.05	Not Set	248	–	0
pyraclostrobin	Whole	0.01	1	248	0	0
pyrimethanil	Whole	0.01	15	248	0	0
tebuconazole	Whole	0.01	0.01	248	0	0
thiabendazole	Whole	0.01	10	248	0	0
tolclofos methyl	Whole	0.01	Not Set	248	–	0
triadimefon	Whole	0.01	1	248	0	0
triadimenol	Whole	0.01	Not Set	248	–	0
trifloxystrobin	Whole	0.01	0.3	248	1	0
triticonazole	Whole	0.01	Not Set	248	–	0
vinclozolin	Whole	0.01	Not Set	248	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	Whole	0.05	0.1	248	0	0
2,4-D	Whole	0.01	Not Set	248	–	0
atrazine	Whole	0.01	Not Set	248	–	0
bromacil	Whole	0.01	Not Set	248	–	0
bromoxynil	Whole	0.01	Not Set	248	–	0
carfentrazone-ethyl	Whole	0.01	0.05	248	0	0
chlorpropham	Whole	0.05	Not Set	248	–	0
chlorsulfuron	Whole	0.01	Not Set	248	–	0
chlorthal-dimethyl	Whole	0.01	Not Set	248	–	0
clethodim (parent only)	Whole	0.01	Not Set	248	–	0
clodinafop-propargyl	Whole	0.01	Not Set	248	–	0
clopyralid	Whole	0.05	Not Set	248	–	0
cyanazine	Whole	0.01	0.02	248	0	0
dicamba	Whole	0.01	Not Set	248	–	0
dichlobenil	Whole	0.01	0.1	248	0	0
dichlorprop-P	Whole	0.01	Not Set	248	–	0
diflufenican	Whole	0.01	Not Set	248	–	0
diuron	Whole	0.01	0.5	248	0	0
ethofumesate	Whole	0.01	Not Set	248	–	0
iodosulfuron-methyl	Whole	0.01	Not Set	248	–	0
ioxynil	Whole	0.01	Not Set	248	–	0
isoxaben	Whole	0.01	0.01	248	0	0
linuron	Whole	0.05	Not Set	248	–	0
MCPA	Whole	0.01	Not Set	248	–	0
methabenzthiazuron	Whole	0.01	Not Set	248	–	0
metolachlor	Whole	0.01	Not Set	248	–	0
metosulam	Whole	0.01	Not Set	248	–	0
metribuzin	Whole	0.01	Not Set	248	–	0
metsulfuron-methyl	Whole	0.01	Not Set	248	–	0
napropamide	Whole	0.01	Not Set	248	–	0
norflurazon	Whole	0.01	0.2	248	0	0
oryzalin	Whole	0.01	0.1	248	0	0
oxyfluorfen	Whole	0.01	0.05	248	0	0
pendimethalin	Whole	0.01	0.05	248	0	0
picloram	Whole	0.01	Not Set	248	–	0
propachlor	Whole	0.01	Not Set	248	–	0
propyzamide	Whole	0.01	Not Set	248	–	0
quizalofop-ethyl	Whole	0.01	Not Set	248	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
quizalofop-P-tefuryl	Whole	0.01	Not Set	248	–	0
saflufenacil	Whole	0.01	0.03	248	0	0
sethoxydim	Whole	0.01	Not Set	248	–	0
simazine	Whole	0.01	0.1	248	0	0
tralkoxydim	Whole	0.01	Not Set	248	–	0
triasulfuron	Whole	0.01	Not Set	248	–	0
triclopyr	Whole	0.01	Not Set	248	–	0
trifluralin	Whole	0.01	0.05	248	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
abamectin	Whole	0.01	0.01	248	0	0
acephate	Whole	0.05	Not Set	248	–	0
acetamiprid	Whole	0.01	0.2	248	0	0
aldicarb	Whole	0.01	Not Set	248	–	0
amitraz	Whole	0.01	0.5	248	0	0
azamethiphos	Whole	0.01	Not Set	248	–	0
azinphos-methyl	Whole	0.01	1	248	0	0
bifenazate	Whole	0.01	2	248	0	0
bifenthrin	Whole	0.01	0.05	248	0	0
bioresmethrin	Whole	0.01	Not Set	248	–	0
buprofezin	Whole	0.01	Not Set	248	–	0
cadusafos	Whole	0.01	Not Set	248	–	0
carbaryl	Whole	0.01	0.2	248	0	0
carbofuran	Whole	0.01	Not Set	248	–	0
chlorantraniliprole	Whole	0.01	0.3	248	0	0
chlorfenapyr	Whole	0.01	0.5	248	0	0
chlorfenvinphos (sum of isomers)	Whole	0.01	Not Set	248	–	0
chlorpyrifos	Whole	0.01	0.5	248	0	0
chlorpyrifos-methyl	Whole	0.01	Not Set	248	–	0
clofentezine	Whole	0.01	0.1	248	0	0
clothianidin	Whole	0.01	2	248	0	0
cyfluthrin (sum of isomers)	Whole	0.01	Not Set	248	–	0
cyhalothrin (sum of isomers)	Whole	0.01	Not Set	248	–	0
cypermethrin (sum of isomers)	Whole	0.01	1	248	0	0
deltamethrin	Whole	0.01	Not Set	248	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diazinon	Whole	0.01	0.5	248	0	0
dichlorvos	Whole	0.01	0.1	248	0	0
dicofol	Whole	0.01	5	248	0	0
diflubenzuron	Whole	0.01	Not Set	248	–	0
dimethoate	Whole	0.01	Not Set	248	–	0
disulfoton	Whole	0.01	Not Set	248	–	0
emamectin	Whole	0.01	Not Set	248	–	0
esfenvalerate	Whole	0.01	Not Set	248	–	0
ethion	Whole	0.01	1	248	0	0
ethoprophos	Whole	0.005	Not Set	248	–	0
etoxazole	Whole	0.01	0.2	248	0	0
fenamiphos	Whole	0.01	Not Set	248	–	0
fenbutatin oxide	Whole	0.01	3	248	0	0
fenitrothion	Whole	0.01	1	248	0	0
fenoxycarb	Whole	0.01	2	248	0	0
fenpyroximate	Whole	0.01	0.3	248	0	0
fenthion	Whole	0.01	Not Set	248	–	0
fenvalerate (sum of isomers)	Whole	0.01	Not Set	248	–	0
fipronil	Whole	0.01	0.01	248	0	0
flonicamid	Whole	0.01	0.7	245	0	0
hexythiazox	Whole	0.01	1	248	0	0
imidacloprid	Whole	0.01	0.3	248	0	0
indoxacarb	Whole	0.01	2	248	0	0
malathion (maldison)	Whole	0.01	2	248	0	0
metaldehyde	Whole	0.05	1	248	0	0
methacrifos	Whole	0.01	Not Set	248	–	0
methamidophos	Whole	0.01	Not Set	248	–	0
methidathion	Whole	0.01	0.2	248	0	0
methiocarb	Whole	0.01	0.1	248	0	0
methomyl	Whole	0.01	1	248	0	0
methoprene	Whole	0.01	Not Set	248	–	0
methoxychlor	Whole	0.01	Not Set	248	–	0
methoxyfenozide	Whole	0.01	0.5	248	0	0
mevinphos	Whole	0.01	Not Set	248	–	0
monocrotophos	Whole	0.01	Not Set	248	–	0
omethoate	Whole	0.01	2	248	0	0
parathion	Whole	0.01	Not Set	248	–	0
parathion-methyl	Whole	0.01	Not Set	248	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
permethrin (sum of isomers)	Whole	0.01	Not Set	248	–	0
phenothrin (sum of isomers)	Whole	0.01	Not Set	248	–	0
phorate	Whole	0.01	Not Set	248	–	0
phosmet	Whole	0.01	1	248	0	0
piperonyl butoxide	Whole	0.01	8	248	0	0
pirimicarb	Whole	0.01	0.5	248	0	0
pirimiphos-methyl	Whole	0.01	Not Set	248	–	0
profenofos	Whole	0.01	Not Set	248	–	0
propargite	Whole	0.01	3	248	3	0
prothiofos	Whole	0.01	Not Set	248	–	0
pymetrozine	Whole	0.01	Not Set	248	–	0
pyrethrins	Whole	0.05	1	248	0	0
pyridaben	Whole	0.02	0.5	248	0	0
pyriproxyfen	Whole	0.01	Not Set	248	–	0
spinetoram	Whole	0.01	0.1	248	0	0
spinosad	Whole	0.01	0.5	248	0	0
spirotetramat	Whole	0.01	0.5	248	0	0
sulfoxaflor	Whole	0.01	0.5	248	0	0
tau-fluvalinate	Whole	0.01	0.1	248	0	0
tebufenozide	Whole	0.01	1	248	0	0
tebufenpyrad	Whole	0.01	1	248	0	0
terbufos	Whole	0.01	Not Set	248	–	0
tetradifon	Whole	0.01	5	248	0	0
thiacloprid	Whole	0.01	1	248	1	0
thiamethoxam	Whole	0.01	Not Set	248	–	0
thiodicarb	Whole	0.01	Not Set	248	–	0
triazofos	Whole	0.01	Not Set	248	–	0
trichlorfon	Whole	0.01	0.1	248	0	0
triflumuron	Whole	0.01	Not Set	248	–	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	Whole	0.01	0.05	248	0	0
chlordane	Whole	0.01	0.02	248	0	0
DDT	Whole	0.01	1	248	0	0
endosulfan	Whole	0.01	Not Set	248	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
endrin	Whole	0.01	Not Set	248	–	0
HCB (hexachlorobenzene)	Whole	0.01	Not Set	248	–	0
HCH (BHC)	Whole	0.01	Not Set	248	–	0
heptachlor	Whole	0.01	Not Set	248	–	0
lindane (gamma-HCH)	Whole	0.01	2	248	0	0
mirex	Whole	0.01	Not Set	248	–	0

Table 5 - Physiological Modifier

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diphenylamine	Whole	0.01	10	248	1	0