



Apple residue testing annual datasets 2015–16

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	282	–	0
azoxystrobin	whole	0.01	not set	282	–	0
benalaxyl	whole	0.01	not set	282	–	0
bitertanol	whole	0.01	not set	282	–	0
boscalid	whole	0.01	2	282	0	0
bupirimate	whole	0.01	1	282	0	0
captafol	whole	0.05	not set	282	–	0
captan	whole	0.05	10	282	0	0
carbendazim	whole	0.01	not set	282	–	1
chlorothalonil	whole	0.01	2	282	0	0
cyproconazole	whole	0.01	not set	282	–	0
cyprodinil	whole	0.01	0.05	282	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	282	0	0
dimethomorph	whole	0.01	not set	282	–	0
dithianon	whole	0.01	2	282	0	0
dithiocarbamates	whole	0.2	3	282	4	0
dodine	whole	0.01	5	282	0	0
epoxiconazole	whole	0.01	not set	282	–	0
etridiazole	whole	0.01	not set	282	–	0
fenarimol	whole	0.01	0.2	282	0	0
fenhexamid	whole	0.01	not set	282	–	0
fluazinam	whole	0.01	0.01	282	0	0
fludioxonil	whole	0.01	5	282	2	0
fluquinconazole	whole	0.01	0.3	282	0	0
flusilazole	whole	0.01	0.2	282	0	0
flutriafol	whole	0.01	not set	282	–	0
hexaconazole	whole	0.01	0.1	282	0	0
imazalil	whole	0.01	5	282	0	0
iprodione	whole	0.05	3	282	14	0
kresoxim-methyl	whole	0.01	0.1	282	0	0
metalaxyl	whole	0.01	0.2	282	0	0
myclobutanil	whole	0.01	0.5	282	0	0
oxadixyl	whole	0.01	not set	282	–	0
paclobutrazol	whole	0.01	1	282	0	0
penconazole	whole	0.01	0.1	282	0	0
prochloraz	whole	0.01	not set	282	–	0
procymidone	whole	0.01	1	282	0	0
propiconazole	whole	0.01	not set	282	–	0
prothioconazole	whole	0.05	not set	282	–	0
pyraclostrobin	whole	0.01	1	282	0	0
pyrimethanil	whole	0.01	0.05	282	0	0
tebuconazole	whole	0.01	0.01	282	0	0
thiabendazole	whole	0.01	10	282	0	0
tolclofos methyl	whole	0.01	not set	282	–	0
triadimefon	whole	0.01	1	282	0	0
triadimenol	whole	0.01	not set	282	–	0
trifloxystrobin	whole	0.01	0.3	282	2	0
triticonazole	whole	0.01	not set	282	–	0
vinclozolin	whole	0.01	not set	282	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.05	0.1	282	0	0
2,4-D	whole	0.01	not set	282	–	0
atrazine	whole	0.01	not set	282	–	0
bromacil	whole	0.01	not set	282	–	0
bromoxynil	whole	0.01	not set	282	–	0
carfentrazone-ethyl	whole	0.01	0.05	282	0	0
chlorpropham	whole	0.05	not set	282	–	0
chlorsulfuron	whole	0.01	not set	282	–	0
chlorthal-dimethyl	whole	0.01	not set	282	–	0
clethodim	whole	0.01	not set	282	–	0
clodinafop-propargyl	whole	0.01	not set	282	–	0
clopyralid	whole	0.05	not set	282	–	0
cyanazine	whole	0.01	0.02	282	0	0
dicamba	whole	0.01	not set	282	–	0
dichlobenil	whole	0.01	0.1	282	0	0
dichlorprop-P	whole	0.01	not set	282	–	0
diflufenican	whole	0.01	not set	282	–	0
diuron	whole	0.01	0.5	282	0	0
ethofumesate	whole	0.01	not set	282	–	0
iodosulfuron-methyl	whole	0.01	not set	282	–	0
ioxynil	whole	0.01	not set	282	–	0
isoxaben	whole	0.01	0.01	282	0	0
linuron	whole	0.05	not set	282	–	0
MCPA	whole	0.01	not set	282	–	0
methabenthiazuron	whole	0.01	not set	282	–	0
metolachlor	whole	0.01	not set	282	–	0
metosulam	whole	0.01	not set	282	–	0
metribuzin	whole	0.01	not set	282	–	0
metsulfuron-methyl	whole	0.01	not set	282	–	0
napropamide	whole	0.01	not set	282	–	0
norflurazon	whole	0.01	0.2	282	0	0
oryzalin	whole	0.01	0.1	282	0	0
oxyfluorfen	whole	0.01	0.05	282	0	0
pendimethalin	whole	0.01	0.05	282	0	0
picloram	whole	0.01	not set	282	–	0
propachlor	whole	0.01	not set	282	–	0
propyzamide	whole	0.01	not set	255	–	0
quizalofop-ethyl	whole	0.01	not set	282	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
quizalofop-P-tefuryl	whole	0.01	not set	282	–	0
saflufenacil	whole	0.01	0.03	282	0	0
sethoxydim	whole	0.01	not set	282	–	0
simazine	whole	0.01	0.1	282	0	0
tralkoxydim	whole	0.01	not set	282	–	0
triasulfuron	whole	0.01	not set	282	–	0
triclopyr	whole	0.01	not set	282	–	0
trifluralin	whole	0.01	0.05	282	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
abamectin	whole	0.01	0.5	282	0	0
acephate	whole	0.05	not set	282	–	0
acetamiprid	whole	0.01	not set	282	–	0
aldicarb	whole	0.01	not set	282	–	0
amitraz	whole	0.01	0.5	282	0	0
azamethiphos	whole	0.01	not set	282	–	0
azinphos-methyl	whole	0.01	1	282	0	0
bifenazate	whole	0.01	2	282	0	0
bifenthrin	whole	0.01	0.05	282	2	1
bioresmethrin	whole	0.01	not set	282	–	0
buprofezin	whole	0.01	not set	282	–	1
cadusafos	whole	0.01	not set	282	–	0
carbaryl	whole	0.01	0.2	282	0	3
carbofuran	whole	0.01	not set	282	–	0
chlorantraniliprole	whole	0.01	0.3	282	1	0
chlorfenapyr	whole	0.01	0.5	282	0	0
chlorfenvinphos	whole	0.01	not set	282	–	0
chlorpyrifos	whole	0.01	0.5	282	0	0
chlorpyrifos-methyl	whole	0.01	not set	282	–	0
clofentezine	whole	0.01	0.1	282	0	0
clothianidin	whole	0.01	2	282	0	0
cyfluthrin	whole	0.01	not set	282	–	0
cyhalothrin	whole	0.01	not set	282	–	0
cypermethrin	whole	0.01	1	282	0	0
deltamethrin	whole	0.01	not set	282	–	0
diazinon	whole	0.01	0.5	282	0	0
dichlorvos	whole	0.01	0.1	282	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dicofol	whole	0.01	5	282	0	0
diflubenzuron	whole	0.01	not set	282	–	0
dimethoate	whole	0.01	not set	282	–	0
disulfoton	whole	0.01	not set	282	–	0
emamectin	whole	0.01	not set	282	–	0
endosulfan	whole	0.01	not set	282	–	0
esfenvalerate	whole	0.01	not set	282	–	0
ethion	whole	0.01	1	282	0	0
ethoprophos	whole	0.005	not set	282	–	0
etoxazole	whole	0.01	0.2	282	0	0
fenamiphos	whole	0.01	not set	282	–	0
fenbutatin oxide	whole	0.01	3	282	0	0
fenitrothion	whole	0.01	1	282	0	0
fenoxycarb	whole	0.01	2	282	0	0
fenpyroximate	whole	0.01	0.3	282	0	0
fenthion	whole	0.01	not set	282	–	0
fenvalerate	whole	0.01	not set	282	–	0
fipronil	whole	0.01	0.01	282	0	0
hexythiazox	whole	0.01	1	282	0	0
imidacloprid	whole	0.01	0.3	282	0	0
indoxacarb	whole	0.01	2	282	0	0
malathion (maldison)	whole	0.01	2	282	0	0
metaldehyde	whole	0.05	1	282	0	0
methacrifos	whole	0.01	not set	282	–	0
methamidophos	whole	0.01	not set	282	–	0
methidathion	whole	0.01	0.2	282	0	0
methiocarb	whole	0.01	0.1	282	0	0
methomyl	whole	0.01	1	282	0	0
methoprene	whole	0.01	not set	282	–	0
methoxychlor	whole	0.01	not set	282	–	0
methoxyfenozide	whole	0.01	0.5	282	0	0
mevinphos	whole	0.01	not set	282	–	0
monocrotophos	whole	0.01	not set	282	–	0
omethoate	whole	0.01	2	282	0	0
parathion	whole	0.01	not set	282	–	0
parathion-methyl	whole	0.01	not set	282	–	0
permethrin	whole	0.01	not set	282	–	0
phenothrin	whole	0.01	not set	282	–	0
phorate	whole	0.01	not set	282	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
phosmet	whole	0.01	1	282	0	0
piperonyl butoxide	whole	0.01	8	282	0	0
pirimicarb	whole	0.01	0.5	282	0	0
pirimiphos-methyl	whole	0.01	not set	282	–	0
profenofos	whole	0.01	not set	282	–	0
propargite	whole	0.01	3	282	4	0
prothiofos	whole	0.01	0.05	282	0	0
pymetrozine	whole	0.01	not set	282	–	0
pyrethrins	whole	0.05	1	282	0	0
pyridaben	whole	0.02	0.5	282	0	0
pyriproxyfen	whole	0.01	not set	282	–	0
spinetoram	whole	0.01	0.1	282	0	0
spinosad	whole	0.01	0.5	282	0	0
spirotetramat	whole	0.01	0.5	282	0	0
sulfoxaflor	whole	0.01	0.5	282	0	0
tau-fluvalinate	whole	0.01	0.1	282	0	0
tebufenozide	whole	0.01	1	282	0	0
tebufenpyrad	whole	0.01	1	282	0	0
terbufos	whole	0.01	not set	282	–	0
tetradifon	whole	0.01	5	282	0	0
thiacloprid	whole	0.01	1	282	0	0
thiamethoxam	whole	0.01	not set	282	–	0
thiodicarb	whole	0.01	not set	282	–	0
triazofos	whole	0.01	not set	282	–	0
trichlorfon	whole	0.01	0.1	282	1	0
triflumuron	whole	0.01	not set	282	–	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	whole	0.01	0.05	282	0	0
chlordane	whole	0.01	0.02	282	0	0
DDT	whole	0.01	1	282	0	0
endrin	whole	0.01	not set	282	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	282	–	0
HCH (or BHC)	whole	0.01	not set	282	–	0
heptachlor	whole	0.01	not set	282	–	0
lindane (gamma-HCH)	whole	0.01	2	282	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
mirex	whole	0.01	not set	294	0	0

Table 5 Physiological Modifier

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diphenylamine	whole	0.01	10	282	2	0