Australian Government
Department of Agriculture and Water Resources

Apple residue testing annual datasets 2017–18

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.

Disclaimer

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

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	250	0	0
2,4-D	whole	0.01	not set	250	–	0
atrazine	whole	0.01	not set	250	–	0
bromacil	whole	0.01	not set	250	–	0
bromoxynil	whole	0.01	not set	250	–	0
carfentrazone-ethyl	whole	0.01	0.05	250	0	0
chlorpropham	whole	0.05	not set	250	–	0
chlorsulfuron	whole	0.01	not set	250	–	0
chlorthal-dimethyl	whole	0.01	not set	250	–	0
clethodim (parent only)	whole	0.01	not set	250	–	0
clodinafop-propargyl	whole	0.01	not set	250	–	0
clopyralid	whole	0.05	not set	250	–	0
cyanazine	whole	0.01	0.02	250	0	0
dicamba	whole	0.01	not set	250	–	0
dichlobenil	whole	0.01	0.1	250	0	0
dichlorprop-P	whole	0.01	not set	250	–	0
diflufenican	whole	0.01	not set	250	–	0
diuron	whole	0.01	not set	250	–	0
ethofumesate	whole	0.01	not set	250	–	0
iodosulfuron-methyl	whole	0.01	not set	250	–	0
ioxynil	whole	0.01	not set	250	–	0
isoxaben	whole	0.01	0.01	250	0	0
linuron	whole	0.05	not set	250	–	0
MCPA	whole	0.01	not set	250	–	0
methabenzthiazuron	whole	0.01	not set	250	–	0
metolachlor	whole	0.01	not set	250	–	0
metosulam	whole	0.01	not set	250	–	0
metribuzin	whole	0.01	not set	250	–	0
metsulfuron-methyl	whole	0.01	not set	250	–	0
napropamide	whole	0.01	not set	250	–	0
norflurazon	whole	0.01	0.2	250	0	0
oryzalin	whole	0.01	0.1	250	0	0
oxyfluorfen	whole	0.01	0.05	250	0	0
pendimethalin	whole	0.01	0.05	250	0	0
picloram	whole	0.01	not set	250	–	0
propachlor	whole	0.01	not set	250	–	0
propyzamide	whole	0.01	not set	250	–	0
quizalofop-ethyl	whole	0.01	not set	250	–	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	250	–	0
saflufenacil	whole	0.01	0.03	250	0	0
sethoxydim	whole	0.01	not set	250	–	0
simazine	whole	0.01	0.1	250	0	0
tralkoxydim	whole	0.01	not set	250	–	0
triasulfuron	whole	0.01	not set	250	–	0
triclopyr	whole	0.01	not set	250	–	0
trifluralin	whole	0.01	0.05	250	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	250	0	0
acephate	whole	0.05	not set	250	–	0
acetamiprid-P	whole	0.01	0.2	250	0	0
aldicarb	whole	0.01	not set	250	–	0
amitraz	whole	0.01	not set	250	–	0
azamethiphos	whole	0.01	not set	250	–	0
azinphos-methyl	whole	0.01	1	250	0	0
bifenazate	whole	0.01	2	250	0	0
bifenthrin	whole	0.01	0.05	250	3	0
bioresmethrin	whole	0.01	not set	250	–	0
buprofezin	whole	0.01	not set	250	–	0
cadusafos	whole	0.01	not set	250	–	0
carbaryl	whole	0.01	0.2	250	0	0
carbofuran	whole	0.01	not set	250	–	0
chlorantraniliprole	whole	0.01	0.3	250	2	0
chlorfenapyr	whole	0.01	0.5	250	0	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	250	–	0
chlorpyrifos	whole	0.01	0.5	250	1	0
chlorpyrifos-methyl	whole	0.01	not set	250	–	0
clofentezine	whole	0.01	0.1	250	0	0
clothianidin	whole	0.01	2	250	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	250	–	0
cyhalothrin (sum of isomers)	whole	0.01	not set	250	–	0
cypermethrin (sum of isomers)	whole	0.01	1	250	0	0
deltamethrin	whole	0.01	not set	250	–	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	250	0	0
dichlorvos	whole	0.01	0.1	250	0	0
dicofol	whole	0.01	5	250	0	0
diflubenzuron	whole	0.01	not set	250	–	0
dimethoate	whole	0.01	not set	250	–	0
disulfoton	whole	0.01	not set	250	–	0
emamectin	whole	0.01	not set	250	–	0
esfenvalerate	whole	0.01	not set	250	–	0
ethion	whole	0.01	1	250	0	0
ethoprophos	whole	0.005	not set	250	–	0
etoxazole	whole	0.01	0.2	250	0	0
fenamiphos	whole	0.01	not set	250	–	0
fenbutatin oxide	whole	0.01	3	250	0	0
fenitrothion	whole	0.01	1	250	0	0
fenoxycarb	whole	0.01	2	250	0	0
fenpyroximate	whole	0.01	0.3	250	0	0
fenthion	whole	0.01	not set	250	–	0
fenvalerate (sum of isomers)	whole	0.01	not set	250	–	0
fipronil	whole	0.01	not set	250	–	0
flonicamid	whole	0.01	0.7	250	0	0
hexythiazox	whole	0.01	1	250	0	0
imidacloprid	whole	0.01	0.3	250	0	0
indoxacarb	whole	0.01	2	250	0	0
malathion (maldison)	whole	0.01	2	250	0	0
metaldehyde	whole	0.05	1	250	0	0
methacrifos	whole	0.01	not set	250	–	0
methamidophos	whole	0.01	not set	250	–	0
methidathion	whole	0.01	0.2	250	0	0
methiocarb	whole	0.01	0.1	250	0	0
methomyl	whole	0.01	1	250	0	0
methoprene	whole	0.01	not set	250	–	0
methoxychlor	whole	0.01	not set	250	–	0
methoxyfenozide	whole	0.01	0.5	250	0	0
mevinphos	whole	0.01	not set	250	–	0
monocrotophos	whole	0.01	not set	250	–	0
omethoate	whole	0.01	2	250	0	0
parathion	whole	0.01	not set	250	–	0
parathion-methyl	whole	0.01	not set	250	–	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	250	–	0
phenothrin (sum of isomers)	whole	0.01	not set	250	–	0
phorate	whole	0.01	not set	250	–	0
phosmet	whole	0.01	not set	250	–	0
piperonyl butoxide	whole	0.01	8	250	0	0
pirimicarb	whole	0.01	0.5	250	0	0
pirimiphos-methyl	whole	0.01	not set	250	–	0
profenofos	whole	0.01	not set	250	–	0
propargite	whole	0.01	3	250	5	1
prothiofos	whole	0.01	not set	250	–	0
pymetrozine	whole	0.01	not set	250	–	0
pyrethrins	whole	0.05	1	250	0	0
pyridaben	whole	0.02	0.5	250	0	0
pyriproxyfen	whole	0.01	not set	250	–	0
spinetoram	whole	0.01	0.1	250	0	0
spinosad	whole	0.01	0.5	250	0	0
spirotetramat	whole	0.01	0.5	250	0	0
sulfoxaflor	whole	0.01	0.5	250	0	0
tau-fluvalinate	whole	0.01	0.1	250	0	0
tebufenozide	whole	0.01	1	250	0	0
tebufenpyrad	whole	0.01	1	250	0	0
terbufos	whole	0.01	not set	250	–	0
tetradifon	whole	0.01	not set	250	–	0
thiacloprid	whole	0.01	1	250	0	0
thiamethoxam	whole	0.01	not set	250	–	0
thiodicarb	whole	0.01	not set	250	–	0
triazofos	whole	0.01	not set	250	–	0
trichlorfon	whole	0.01	0.1	250	0	0
triflumuron	whole	0.01	not set	250	–	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	250	0	0
chlordane	whole	0.01	0.02	250	0	0
DDT	whole	0.01	1	250	0	0
endosulfan	whole	0.01	not set	250	–	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	250	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	250	–	0
HCH (BHC)	whole	0.01	not set	250	–	0
heptachlor	whole	0.01	not set	250	–	0
lindane (gamma-HCH)	whole	0.01	2	250	0	0
mirex	whole	0.01	not set	250	–	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	250	1	0