



Australian Government

Department of Agriculture, Fisheries and Forestry

Apple residue testing annual datasets 2023-24

National Residue Survey (NRS), Department of Agriculture, Fisheries and Forestry

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, retina 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: CONTAMINANTS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
aldrin and dieldrin (HHDN+HEOD)	Whole	0.01	0.05	166	0	0
chlordane	Whole	0.01	0.02	166	0	0
DDT	Whole	0.01	1	166	0	0
endosulfan	Whole	0.01	not set	166	-	-
endrin	Whole	0.01	not set	166	-	-
HCB (hexachlorobenzene)	Whole	0.01	not set	166	-	-
HCH (BHC)	Whole	0.01	not set	166	-	-
heptachlor	Whole	0.01	not set	166	-	-
lindane (gamma-HCH)	Whole	0.01	2	166	0	0
mirex	Whole	0.01	not set	166	-	-

Table 2: FUNGICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
2-phenylphenol	Whole	0.05	not set	166	-	-
azoxystrobin	Whole	0.01	not set	166	-	-
benalaxyl	Whole	0.01	not set	166	-	-
bitertanol	Whole	0.01	not set	166	-	-
boscalid	Whole	0.01	2	166	0	0
bupirimate	Whole	0.01	1	166	0	0
captafol	Whole	0.05	not set	166	-	-
captan	Whole	0.05	10	166	1	0
carbendazim	Whole	0.01	not set	166	-	-
chlorothalonil	Whole	0.01	not set	166	-	-
cyproconazole	Whole	0.01	not set	166	-	-
cyprodinil	Whole	0.01	1	166	0	0
difenoconazole	Whole	0.01	0.3	166	0	0
dimethomorph	Whole	0.01	not set	166	-	-
dithianon	Whole	0.01	2	166	0	0
dithiocarbamates	Whole	0.2	3	166	4	0
dodine	Whole	0.01	5	166	0	0
epoxiconazole	Whole	0.01	not set	166	-	-
etridiazole	Whole	0.01	not set	166	-	-
fenarimol	Whole	0.01	not set	166	-	-
fenbuconazole	Whole	0.01	not set	166	-	-
fenhexamid	Whole	0.01	not set	166	-	-
fluazinam	Whole	0.01	0.01	166	0	0
fludioxonil	Whole	0.01	5	166	1	0
fluopyram	Whole	0.01	1	166	0	0
fluquinconazole	Whole	0.01	0.3	166	0	0
flusilazole	Whole	0.01	0.2	166	0	0
flutriafol	Whole	0.01	0.5	166	0	0
fluxapyroxad	Whole	0.01	0.7	76	0	0
hexaconazole	Whole	0.01	0.1	166	0	0
imazalil	Whole	0.01	5	166	0	0
iprodione	Whole	0.01	3	166	2	2
isopyrazam	Whole	0.01	0.7	166	0	0
kresoxim-methyl	Whole	0.01	0.1	166	0	0
mandestrobin	Whole	0.01	not set	166	-	-
mefentrifluconazole	Whole	0.01	1	166	0	0
metalaxyl	Whole	0.01	0.2	166	0	0
metrafenone	Whole	0.01	not set	166	-	-
myclobutanil	Whole	0.01	0.5	166	0	0

oxadixyl	Whole	0.01	not set	166	-	-
paclobutrazol	Whole	0.01	1	166	0	0
penconazole	Whole	0.01	0.1	166	0	0
penthiopyrad	Whole	0.01	0.5	166	0	0
prochloraz	Whole	0.01	not set	166	-	-
procymidone	Whole	0.01	not set	166	-	-
propiconazole	Whole	0.01	not set	166	-	-
prothioconazole	Whole	0.01	not set	166	-	-
pyraclostrobin	Whole	0.01	1	166	0	0
pyrimethanil	Whole	0.01	15	166	1	0
tebuconazole	Whole	0.01	0.01	166	0	0
thiabendazole	Whole	0.01	10	166	0	0
tolclofos methyl	Whole	0.01	not set	166	-	-
triadimefon	Whole	0.01	not set	166	-	-
triadimenol	Whole	0.01	not set	166	-	-
trifloxystrobin	Whole	0.01	0.7	166	0	0
triforine	Whole	0.01	1	166	0	0
triticonazole	Whole	0.01	not set	166	-	-
uniconazole-P	Whole	0.01	not set	166	-	-
vinclozolin	Whole	0.01	not set	166	-	-

Table 3: HERBICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
2,2-DPA (2,2-dichloropropionic acid)	Whole	0.05	0.1	166	0	0
2,4-D	Whole	0.01	0.05	166	0	0
atrazine	Whole	0.01	not set	166	-	-
bromacil	Whole	0.01	not set	166	-	-
bromoxynil	Whole	0.01	not set	166	-	-
carfentrazone-ethyl	Whole	0.01	0.05	166	0	0
chlorpropham	Whole	0.05	not set	166	-	-
chlorsulfuron	Whole	0.01	not set	166	-	-
chlorthal-dimethyl	Whole	0.01	not set	166	-	-
clethodim	Whole	0.01	not set	166	-	-
clodinafop-propargyl	Whole	0.01	not set	166	-	-
clopyralid	Whole	0.05	not set	166	-	-
cyanazine	Whole	0.01	0.02	166	0	0
dicamba	Whole	0.01	not set	166	-	-
dichlobenil	Whole	0.01	0.1	166	0	0
dichlorprop-P	Whole	0.01	not set	166	-	-

diflufenican	Whole	0.01	not set	166	-	-
diuron	Whole	0.01	not set	166	-	-
ethofumesate	Whole	0.01	not set	166	-	-
fenoxaprop-ethyl	Whole	0.01	not set	84	-	-
flumioxazin	Whole	0.02	0.02	166	0	0
iodosulfuron-methyl	Whole	0.01	not set	166	-	-
ioxynil	Whole	0.01	not set	166	-	-
isoxaben	Whole	0.01	0.01	166	0	0
linuron	Whole	0.01	not set	166	-	-
MCPA	Whole	0.01	not set	166	-	-
metamitron	Whole	0.01	0.01	166	0	0
methabenzthiazuron	Whole	0.01	not set	166	-	-
metolachlor	Whole	0.01	not set	166	-	-
metosulam	Whole	0.01	not set	166	-	-
metribuzin	Whole	0.01	not set	166	-	-
metsulfuron-methyl	Whole	0.01	not set	166	-	-
napropamide	Whole	0.01	not set	166	-	-
norflurazon	Whole	0.01	0.2	166	0	0
oryzalin	Whole	0.01	0.1	166	0	0
oxyfluorfen	Whole	0.01	0.05	166	0	0
pendimethalin	Whole	0.01	0.05	166	0	0
picloram	Whole	0.01	not set	166	-	-
propachlor	Whole	0.01	not set	166	-	-
propyzamide	Whole	0.01	not set	166	-	-
quizalofop-ethyl	Whole	0.01	not set	166	-	-
quizalofop-P-tefuryl	Whole	0.01	not set	166	-	-
saflufenacil	Whole	0.01	0.03	166	0	0
sethoxydim	Whole	0.01	not set	166	-	-
simazine	Whole	0.01	0.1	166	0	0
tralkoxydim	Whole	0.01	not set	166	-	-
triasulfuron	Whole	0.01	not set	166	-	-
triclopyr	Whole	0.01	not set	166	-	-
trifluralin	Whole	0.01	0.05	166	0	0

Table 4: INSECTICIDES

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
abamectin	Whole	0.01	0.01	166	0	0
acephate	Whole	0.05	not set	166	-	-
acetamiprid	Whole	0.01	0.2	166	0	0
aldicarb	Whole	0.01	not set	166	-	-

amitraz	Whole	0.01	not set	166	-	-
azamethiphos	Whole	0.01	not set	166	-	-
azinphos-methyl	Whole	0.01	not set	166	-	-
bifenazate	Whole	0.01	2	166	0	0
bifenthrin	Whole	0.01	0.05	166	0	0
bioresmethrin	Whole	0.01	not set	166	-	-
buprofezin	Whole	0.01	0.1	166	0	0
cadusafos	Whole	0.005	not set	166	-	-
carbaryl	Whole	0.01	0.2	166	0	0
carbofuran	Whole	0.005	not set	166	-	-
chlorantraniliprole	Whole	0.01	0.3	166	0	0
chlorfenapyr	Whole	0.01	0.5	166	0	0
chlorfenvinphos	Whole	0.01	not set	166	-	-
chlorpyrifos	Whole	0.005	0.5	166	0	0
chlorpyrifos-methyl	Whole	0.005	not set	166	-	-
clofentezine	Whole	0.01	0.1	166	0	0
clothianidin	Whole	0.01	2	166	0	0
cyantraniliprole	Whole	0.01	0.05	166	0	0
cyflumetofen	Whole	0.01	0.5	76	0	0
cyfluthrin	Whole	0.01	not set	166	-	-
cyhalothrin	Whole	0.01	not set	166	-	-
cypermethrin	Whole	0.01	1	166	0	0
deltamethrin	Whole	0.01	not set	166	-	-
diazinon	Whole	0.01	0.5	166	0	0
dichlorvos	Whole	0.01	0.1	166	0	0
dicofol	Whole	0.01	5	166	0	0
diflubenzuron	Whole	0.01	not set	166	-	-
dimethoate	Whole	0.01	not set	166	-	-
disulfoton	Whole	0.01	not set	166	-	-
emamectin	Whole	0.005	not set	166	-	-
ethion	Whole	0.01	1	166	0	0
ethoprophos	Whole	0.005	not set	166	-	-
etoxazole	Whole	0.01	0.2	166	0	0
fenamiphos	Whole	0.01	not set	166	-	-
fenbutatin oxide	Whole	0.01	3	166	0	0
fenitrothion	Whole	0.01	1	166	0	0
fenoxycarb	Whole	0.01	2	166	0	0
fenpyroximate	Whole	0.01	0.3	166	0	0
fenthion	Whole	0.01	not set	166	-	-
fenvalerate	Whole	0.01	not set	166	-	-
fipronil	Whole	0.005	not set	166	-	-
flonicamid	Whole	0.01	0.7	166	0	0

flupyradifurone	Whole	0.01	0.2	166	0	0
hexythiazox	Whole	0.01	1	166	0	0
imidacloprid	Whole	0.01	0.3	166	0	0
indoxacarb	Whole	0.01	2	166	0	0
malathion	Whole	0.01	2	166	0	0
metaldehyde	Whole	0.05	1	166	0	0
methacrifos	Whole	0.01	not set	166	-	-
methamidophos	Whole	0.01	not set	166	-	-
methidathion	Whole	0.01	not set	166	-	-
methiocarb	Whole	0.01	0.1	166	0	0
methomyl	Whole	0.01	1	166	0	0
methoprene	Whole	0.01	not set	166	-	-
methoxychlor	Whole	0.01	not set	166	-	-
methoxyfenozide	Whole	0.01	0.5	166	0	0
mevinphos	Whole	0.01	not set	166	-	-
monocrotophos	Whole	0.01	not set	166	-	-
novaluron	Whole	0.01	0.3	166	0	0
omethoate	Whole	0.01	2	166	0	0
parathion	Whole	0.01	not set	166	-	-
parathion-methyl	Whole	0.01	not set	166	-	-
permethrin	Whole	0.01	not set	166	-	-
phenothrin	Whole	0.01	not set	166	-	-
phorate	Whole	0.01	not set	166	-	-
phosmet	Whole	0.01	not set	166	-	-
piperonyl butoxide	Whole	0.01	8	166	0	0
pirimicarb	Whole	0.01	0.5	166	0	0
pirimiphos-methyl	Whole	0.01	not set	166	-	-
profenofos	Whole	0.01	not set	166	-	-
propargite	Whole	0.01	3	166	1	0
prothiofos	Whole	0.01	not set	166	-	-
pymetrozine	Whole	0.01	not set	166	-	-
pyrethrins	Whole	0.05	1	166	0	0
pyridaben	Whole	0.02	0.5	166	0	0
pyriproxifen	Whole	0.01	not set	166	-	-
spinetoram	Whole	0.01	0.1	166	0	0
spinosad	Whole	0.01	0.5	166	0	0
spirotetramat	Whole	0.01	0.5	166	0	0
sulfoxaflor	Whole	0.01	0.5	166	0	0
tau-fluvalinate	Whole	0.01	0.1	166	0	0
tebufenozide	Whole	0.01	1	166	0	0
tebufenpyrad	Whole	0.01	1	166	0	0
terbufos	Whole	0.005	not set	166	-	-

tetradifon	Whole	0.01	not set	166	-	-
tetraniliprole	Whole	0.01	0.5	76	0	0
thiacloprid	Whole	0.01	1	166	0	0
thiamethoxam	Whole	0.01	not set	166	-	-
thiodicarb	Whole	0.01	not set	166	-	-
triazofos	Whole	0.01	not set	166	-	-
trichlorfon	Whole	0.01	0.1	166	1	0
triflumuron	Whole	0.01	not set	166	-	-

Table 5: METALS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
arsenic (total)	Whole	0.05	no limit	109	0	0
cadmium	Whole	0.01	no limit	109	0	0
copper	Whole	0.05	no limit	109	0	0
lead	Whole	0.01	0.1	109	0	0
mercury (total)	Whole	0.01	no limit	109	0	0

Table 6: MYCOTOXINS

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
patulin	Paste	0.01	not set	10	-	-

Table 7: PHYSIOLOGICAL MODIFIER

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
diphenylamine	Whole	0.01	10	166	1	0
forchlorfenuron	Whole	0.01	0.01	166	0	0
prohexadione-calcium	Whole	0.01	0.02	166	0	0