Australian Government
Department of Agriculture, Fisheries and Forestry

Apple residue testing annual datasets 2022-23

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	167	0	0
chlordane	Whole	0.01	0.02	167	0	0
DDT	Whole	0.01	1	167	0	0
endosulfan	Whole	0.01	not set	167	-	-
endrin	Whole	0.01	not set	167	-	-
HCB (hexachlorobenzene)	Whole	0.01	not set	167	-	-
HCH (BHC)	Whole	0.01	not set	167	-	-
heptachlor	Whole	0.01	not set	167	-	-
lindane (gamma-HCH)	Whole	0.01	2	167	0	0
mirex	Whole	0.01	not set	167	-	-

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	167	-	-
azoxystrobin	Whole	0.01	not set	167	-	-
benalaxyl	Whole	0.01	not set	167	-	-
bitertanol	Whole	0.01	not set	167	-	-
boscalid	Whole	0.01	2	167	0	0
bupirimate	Whole	0.01	1	167	0	0
captafol	Whole	0.05	not set	167	-	-
captan	Whole	0.05	10	167	0	0
carbendazim	Whole	0.01	not set	167	-	-
chlorothalonil	Whole	0.01	not set	167	-	-
cyproconazole	Whole	0.01	not set	167	-	-
cyprodinil	Whole	0.01	1	167	0	0
difenoconazole	Whole	0.01	0.3	167	0	0
dimethomorph	Whole	0.01	not set	167	-	-
dithianon	Whole	0.01	2	167	3	0
dithiocarbamates	Whole	0.2	3	167	3	0
dodine	Whole	0.01	5	167	0	0
epoxiconazole	Whole	0.01	not set	167	-	-
etridiazole	Whole	0.01	not set	167	-	-
fenarimol	Whole	0.01	not set	167	-	-
fenbuconazole	Whole	0.01	not set	167	-	-
fenhexamid	Whole	0.01	not set	167	-	-
fluazinam	Whole	0.01	0.01	167	0	0
fludioxonil	Whole	0.01	5	167	1	3
fluopyram	Whole	0.01	1	167	0	0
fluquinconazole	Whole	0.01	0.3	167	0	0
flusilazole	Whole	0.01	0.2	167	0	0
flutriafol	Whole	0.01	0.5	167	0	0
hexaconazole	Whole	0.01	0.1	167	0	0
imazalil	Whole	0.01	5	167	0	0
iprodione	Whole	0.01	3	167	6	2
isopyrazam	Whole	0.01	0.7	167	0	0
kresoxim-methyl	Whole	0.01	0.1	167	0	0
mandestrobin	Whole	0.01	not set	167	-	-
mefentrifluconazole	Whole	0.01	1	167	0	0
metalaxyl	Whole	0.01	0.2	167	0	0
metrafenone	Whole	0.01	not set	167	-	-
myclobutanil	Whole	0.01	0.5	167	0	0
oxadixyl	Whole	0.01	not set	167	-	-

paclobutrazol	Whole	0.01	1	167	0	0
penconazole	Whole	0.01	0.1	167	0	0
penthiopyrad	Whole	0.01	0.5	167	0	0
prochloraz	Whole	0.01	not set	167	-	-
procymidone	Whole	0.01	not set	167	-	-
propiconazole	Whole	0.01	not set	167	-	-
prothioconazole	Whole	0.01	not set	167	-	-
pyraclostrobin	Whole	0.01	1	167	0	0
pyrimethanil	Whole	0.01	15	167	0	0
tebuconazole	Whole	0.01	0.01	167	0	0
thiabendazole	Whole	0.01	10	167	0	0
tolclofos methyl	Whole	0.01	not set	167	-	-
triadimefon	Whole	0.01	not set	167	-	-
triadimenol	Whole	0.01	not set	167	-	-
trifloxystrobin	Whole	0.01	0.7	167	0	0
triforine	Whole	0.01	1	167	0	0
triticonazole	Whole	0.01	not set	167	-	-
uniconazole-P	Whole	0.01	not set	149	-	-
vinclozolin	Whole	0.01	not set	167	-	-

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	167	0	0
2,4-D	Whole	0.01	0.05	167	0	0
atrazine	Whole	0.01	not set	167	-	-
bromacil	Whole	0.01	not set	167	-	-
bromoxynil	Whole	0.01	not set	167	-	-
carfentrazone-ethyl	Whole	0.01	0.05	167	0	0
chlorpropham	Whole	0.05	not set	167	-	-
chlorsulfuron	Whole	0.01	not set	167	-	-
chlorthal-dimethyl	Whole	0.01	not set	167	-	-
clethodim	Whole	0.01	not set	167	-	-
clodinafop-propargyl	Whole	0.01	not set	167	-	-
clopyralid	Whole	0.05	not set	167	-	-
cyanazine	Whole	0.01	0.02	167	0	0
dicamba	Whole	0.01	not set	167	-	-
dichlobenil	Whole	0.01	0.1	167	0	0
dichlorprop-P	Whole	0.01	not set	167	-	-
diflufenican	Whole	0.01	not set	167	-	-

diuron	Whole	0.01	not set	167	-	-
ethofumesate	Whole	0.01	not set	167	-	-
fenoxaprop-ethyl	Whole	0.01	not set	73	-	-
flumioxazin	Whole	0.02	0.02	167	0	0
iodosulfuron-methyl	Whole	0.01	not set	167	-	-
ioxynil	Whole	0.01	not set	167	-	-
isoxaben	Whole	0.01	0.01	167	0	0
linuron	Whole	0.01	not set	167	-	-
MCPA	Whole	0.01	not set	167	-	-
metamitron	Whole	0.01	0.01	167	0	0
methabenzthiazuron	Whole	0.01	not set	167	-	-
metolachlor	Whole	0.01	not set	167	-	-
metosulam	Whole	0.01	not set	167	-	-
metribuzin	Whole	0.01	not set	167	-	-
metsulfuron-methyl	Whole	0.01	not set	167	-	-
napropamide	Whole	0.01	not set	167	-	-
norflurazon	Whole	0.01	0.2	167	0	0
oryzalin	Whole	0.01	0.1	167	0	0
oxyfluorfen	Whole	0.01	0.05	167	0	0
pendimethalin	Whole	0.01	0.05	167	0	0
picloram	Whole	0.01	not set	167	-	-
propachlor	Whole	0.01	not set	167	-	-
propyzamide	Whole	0.01	not set	167	-	-
quizalofop-ethyl	Whole	0.01	not set	167	-	-
quizalofop-P-tefuryl	Whole	0.01	not set	167	-	-
saflufenacil	Whole	0.01	0.03	167	0	0
sethoxydim	Whole	0.01	not set	167	-	-
simazine	Whole	0.01	0.1	167	0	0
tralkoxydim	Whole	0.01	not set	167	-	-
triasulfuron	Whole	0.01	not set	167	-	-
triclopyr	Whole	0.01	not set	167	-	-
trifluralin	Whole	0.01	0.05	167	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	167	0	0
acephate	Whole	0.05	not set	167	-	-
acetamiprid	Whole	0.01	0.2	167	0	0
aldicarb	Whole	0.01	not set	167	-	-
amitraz	Whole	0.01	not set	167	-	-

azamethiphos	Whole	0.01	not set	167	-	-
azinphos-methyl	Whole	0.01	not set	167	-	-
bifenazate	Whole	0.01	2	167	0	0
bifenthrin	Whole	0.01	0.05	167	1	2
bioresmethrin	Whole	0.01	not set	167	-	-
buprofezin	Whole	0.01	0.1	167	1	0
cadusafos	Whole	0.005	not set	167	-	-
carbaryl	Whole	0.01	0.2	167	0	0
carbofuran	Whole	0.005	not set	167	-	-
chlorantraniliprole	Whole	0.01	0.3	167	0	0
chlorfenapyr	Whole	0.01	0.5	167	0	0
chlorfenvinphos	Whole	0.01	not set	167	-	-
chlorpyrifos	Whole	0.005	0.5	167	0	0
chlorpyrifos-methyl	Whole	0.005	not set	167	-	-
clofentezine	Whole	0.01	0.1	167	0	0
clothianidin	Whole	0.01	2	167	0	0
cyantraniliprole	Whole	0.01	0.05	167	0	0
cyfluthrin	Whole	0.01	not set	167	-	-
cyhalothrin	Whole	0.01	not set	167	-	-
cypermethrin	Whole	0.01	1	167	0	0
deltamethrin	Whole	0.01	not set	167	-	-
diazinon	Whole	0.01	0.5	167	0	0
dichlorvos	Whole	0.01	0.1	167	0	0
dicofol	Whole	0.01	5	167	0	0
diflubenzuron	Whole	0.01	not set	167	-	-
dimethoate	Whole	0.01	not set	167	-	-
disulfoton	Whole	0.01	not set	167	-	-
emamectin	Whole	0.005	not set	167	-	-
ethion	Whole	0.01	1	167	0	0
ethoprophos	Whole	0.005	not set	167	-	-
etoxazole	Whole	0.01	0.2	167	0	0
fenamiphos	Whole	0.01	not set	167	-	-
fenbutatin oxide	Whole	0.01	3	167	0	0
fenitrothion	Whole	0.01	1	167	0	0
fenoxycarb	Whole	0.01	2	167	0	0
fenpyroximate	Whole	0.01	0.3	167	0	0
fenthion	Whole	0.01	not set	167	-	-
fenvalerate	Whole	0.01	not set	167	-	-
fipronil	Whole	0.005	not set	167	-	-
flonicamid	Whole	0.01	0.7	167	1	0
flupyradifurone	Whole	0.01	0.2	167	0	0
hexythiazox	Whole	0.01	1	167	0	0

imidacloprid	Whole	0.01	0.3	167	0	0
indoxacarb	Whole	0.01	2	167	0	0
malathion	Whole	0.01	2	167	0	0
metaldehyde	Whole	0.05	1	167	0	0
methacrifos	Whole	0.01	not set	167	-	-
methamidophos	Whole	0.01	not set	167	-	-
methidathion	Whole	0.01	not set	167	-	-
methiocarb	Whole	0.01	0.1	167	0	0
methomyl	Whole	0.01	1	167	0	0
methoprene	Whole	0.01	not set	167	-	-
methoxychlor	Whole	0.01	not set	167	-	-
methoxyfenozide	Whole	0.01	0.5	167	0	0
mevinphos	Whole	0.01	not set	167	-	-
monocrotophos	Whole	0.01	not set	167	-	-
novaluron	Whole	0.01	0.3	167	0	0
omethoate	Whole	0.01	2	167	0	0
parathion	Whole	0.01	not set	167	-	-
parathion-methyl	Whole	0.01	not set	167	-	-
permethrin	Whole	0.01	not set	167	-	-
phenothrin	Whole	0.01	not set	167	-	-
phorate	Whole	0.01	not set	167	-	-
phosmet	Whole	0.01	not set	167	-	-
piperonyl butoxide	Whole	0.01	8	167	0	0
pirimicarb	Whole	0.01	0.5	167	1	0
pirimiphos-methyl	Whole	0.01	not set	167	-	-
profenofos	Whole	0.01	not set	167	-	-
propargite	Whole	0.01	3	167	2	0
prothiofos	Whole	0.01	not set	167	-	-
pymetrozine	Whole	0.01	not set	167	-	-
pyrethrins	Whole	0.05	1	167	0	0
pyridaben	Whole	0.02	0.5	167	0	0
pyriproxyfen	Whole	0.01	not set	167	-	-
spinetoram	Whole	0.01	0.1	167	0	0
spinosad	Whole	0.01	0.5	167	0	0
spirotetramat	Whole	0.01	0.5	167	0	0
sulfoxaflor	Whole	0.01	0.5	167	0	0
tau-fluvalinate	Whole	0.01	0.1	167	0	0
tebufenozide	Whole	0.01	1	167	0	0
tebufenpyrad	Whole	0.01	1	167	0	0
terbufos	Whole	0.005	not set	167	-	-
tetradifon	Whole	0.01	not set	167	-	-
thiacloprid	Whole	0.01	1	167	0	0

thiamethoxam	Whole	0.01	not set	167	-	-
thiodicarb	Whole	0.01	not set	167	-	-
triazofos	Whole	0.01	not set	167	-	-
trichlorfon	Whole	0.01	0.1	167	0	0
triflumuron	Whole	0.01	not set	167	-	-

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	102	0	0
cadmium	Whole	0.01	no limit	102	0	0
copper	Whole	0.05	no limit	102	0	0
lead	Whole	0.01	0.1	102	0	0
mercury (total)	Whole	0.01	no limit	102	0	0

Table 6: PHYSIOLOGICAL MODIFIER

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>½MRL to ≤MRL	>MRL
diphenylamine	Whole	0.01	10	167	0	0
forchlorfenuron	Whole	0.01	0.01	167	0	0
prohexadione-calcium	Whole	0.01	0.02	167	0	0