Australian Government

Department of Agriculture, Fisheries and Forestry

Macadamia 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.

Disclaimer

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	not set	112	-	-
chlordane	Whole	0.01	not set	112	-	-
DDT	Whole	0.01	not set	112	-	-
endosulfan	Whole	0.01	not set	112	-	-
endrin	Whole	0.01	not set	112	-	-
HCB (hexachlorobenzene)	Whole	0.01	not set	112	-	-
HCH (BHC)	Whole	0.01	not set	112	-	-
heptachlor	Whole	0.01	not set	112	-	-
lindane (gamma-HCH)	Whole	0.01	not set	112	-	-
mirex	Whole	0.01	not set	112	-	-

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	112	-	-
azoxystrobin	Whole	0.01	0.01	112	0	0
benalaxyl	Whole	0.01	not set	112	-	-
bitertanol	Whole	0.01	not set	112	-	-
boscalid	Whole	0.01	0.5	112	0	0
bupirimate	Whole	0.01	not set	112	-	-
captafol	Whole	0.05	not set	112	-	-
captan	Whole	0.05	3	112	0	0
carbendazim	Whole	0.01	0.1	112	0	0
chlorothalonil	Whole	0.01	not set	112	-	-
cyproconazole	Whole	0.01	not set	112	-	-
cyprodinil	Whole	0.01	not set	112	-	-
difenoconazole	Whole	0.01	0.01	112	0	0
dimethomorph	Whole	0.01	not set	112	-	-
dithianon	Whole	0.01	not set	112	-	-
dithiocarbamates	Whole	0.2	not set	112	-	-
dodine	Whole	0.01	not set	112	-	-
epoxiconazole	Whole	0.01	not set	112	-	-
etridiazole	Whole	0.01	not set	112	-	-
fenarimol	Whole	0.01	not set	112	-	-
fenbuconazole	Whole	0.01	not set	112	-	-
fenhexamid	Whole	0.01	not set	112	-	-
fluazinam	Whole	0.01	not set	112	-	-
fludioxonil	Whole	0.01	not set	112	-	-
fluopyram	Whole	0.01	0.2	112	0	0
fluquinconazole	Whole	0.01	not set	112	-	-
flusilazole	Whole	0.01	not set	112	-	-
flutriafol	Whole	0.01	0.5	112	0	0
hexaconazole	Whole	0.01	not set	112	-	-
imazalil	Whole	0.01	not set	112	-	-
iprodione	Whole	0.01	0.01	112	0	0
isopyrazam	Whole	0.01	not set	112	-	-
kresoxim-methyl	Whole	0.01	not set	112	-	-
mandestrobin	Whole	0.01	not set	112	-	-
mefentrifluconazole	Whole	0.01	0.2	112	0	0
metalaxyl	Whole	0.01	1	112	0	0
metrafenone	Whole	0.01	not set	112	-	-
myclobutanil	Whole	0.01	not set	112	-	-
oxadixyl	Whole	0.01	not set	112	-	-

paclobutrazol	Whole	0.01	not set	112	-	-
penconazole	Whole	0.01	not set	112	-	-
penthiopyrad	Whole	0.01	0.1	112	0	0
phosphonic acid	Whole	0.25	3000	28	0	0
prochloraz	Whole	0.01	not set	112	-	-
procymidone	Whole	0.01	not set	112	-	-
propiconazole	Whole	0.01	0.2	112	0	0
prothioconazole	Whole	0.01	not set	112	-	-
pyraclostrobin	Whole	0.01	0.07	112	0	0
pyrimethanil	Whole	0.01	not set	112	-	-
tebuconazole	Whole	0.01	0.01	112	0	0
thiabendazole	Whole	0.01	not set	112	-	-
tolclofos methyl	Whole	0.01	not set	112	-	-
triadimefon	Whole	0.01	not set	112	-	-
triadimenol	Whole	0.01	not set	112	-	-
trifloxystrobin	Whole	0.01	not set	112	-	-
triforine	Whole	0.01	not set	112	-	-
triticonazole	Whole	0.01	not set	112	-	-
uniconazole-P	Whole	0.01	not set	57	-	-
vinclozolin	Whole	0.01	not set	112	-	-

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	not set	112	-	-
2,4-D	Whole	0.01	not set	112	-	-
amitrole	Whole	0.01	not set	37	-	-
atrazine	Whole	0.01	not set	112	-	-
bromacil	Whole	0.01	not set	112	-	-
bromoxynil	Whole	0.01	not set	112	-	-
carfentrazone-ethyl	Whole	0.01	0.05	112	0	0
chlormequat	Whole	0.01	not set	37	-	-
chlorpropham	Whole	0.05	not set	112	-	-
chlorsulfuron	Whole	0.01	not set	112	-	-
chlorthal-dimethyl	Whole	0.01	not set	112	-	-
clethodim	Whole	0.01	not set	112	-	-
clodinafop-propargyl	Whole	0.01	not set	112	-	-
clopyralid	Whole	0.05	not set	112	-	-
cyanazine	Whole	0.01	not set	112	-	-
dicamba	Whole	0.01	not set	112	-	-

dichlobenil	Whole	0.01	not set	112	-	-
dichlorprop-P	Whole	0.01	not set	37	-	-
diclofop-methyl	Whole	0.01	not set	37	-	-
diflufenican	Whole	0.01	not set	112	-	-
diquat	Whole	0.01	0.05	37	0	0
diuron	Whole	0.01	not set	112	-	-
ethofumesate	Whole	0.01	not set	112	-	-
fenoxaprop-ethyl	Whole	0.01	not set	112	-	-
flamprop-M-methyl	Whole	0.01	not set	37	-	-
fluazifop-p-butyl	Whole	0.01	not set	37	-	-
flumioxazin	Whole	0.02	0.02	112	0	0
glufosinate	Whole	0.01	0.1	37	0	0
glyphosate	Whole	0.01	0.2	37	0	0
haloxyfop	Whole	0.005	0.05	37	0	0
iodosulfuron-methyl	Whole	0.01	not set	112	-	-
ioxynil	Whole	0.01	not set	112	-	-
isoxaben	Whole	0.01	0.01	112	0	0
linuron	Whole	0.01	not set	112	-	-
MCPA	Whole	0.01	not set	112	-	-
metamitron	Whole	0.01	not set	112	-	-
methabenzthiazuron	Whole	0.01	not set	112	-	-
metolachlor	Whole	0.01	not set	112	-	-
metosulam	Whole	0.01	not set	112	-	-
metribuzin	Whole	0.01	not set	112	-	-
metsulfuron-methyl	Whole	0.01	not set	112	-	-
napropamide	Whole	0.01	not set	112	-	-
norflurazon	Whole	0.01	0.2	112	0	0
oryzalin	Whole	0.01	0.1	112	0	0
oxyfluorfen	Whole	0.01	0.05	112	0	0
paraquat	Whole	0.01	0.05	37	0	0
pendimethalin	Whole	0.01	0.05	112	0	0
picloram	Whole	0.01	not set	112	-	-
propachlor	Whole	0.01	not set	112	-	-
propaquizafop	Whole	0.01	not set	37	-	-
propyzamide	Whole	0.01	not set	112	-	-
quizalofop-ethyl	Whole	0.01	not set	37	-	-
quizalofop-P-tefuryl	Whole	0.01	not set	37	-	-
saflufenacil	Whole	0.01	0.03	112	0	0
sethoxydim	Whole	0.01	not set	112	-	-
simazine	Whole	0.01	0.1	112	0	0
tralkoxydim	Whole	0.01	not set	112	-	-
triasulfuron	Whole	0.01	not set	112	-	-

triclopyr	Whole	0.01	not set	112	-	-
trifluralin	Whole	0.01	not set	112	-	-

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	112	0	0
acephate	Whole	0.05	0.1	112	0	0
acetamiprid	Whole	0.01	0.01	112	0	0
aldicarb	Whole	0.01	not set	112	-	-
amitraz	Whole	0.01	not set	112	-	-
azamethiphos	Whole	0.01	not set	112	-	-
azinphos-methyl	Whole	0.01	not set	112	-	-
bifenazate	Whole	0.01	not set	112	-	-
bifenthrin	Whole	0.01	not set	112	-	-
bioresmethrin	Whole	0.01	not set	112	-	-
buprofezin	Whole	0.01	0.1	112	0	0
cadusafos	Whole	0.005	not set	112	-	-
carbaryl	Whole	0.01	2	112	0	0
carbofuran	Whole	0.005	not set	112	-	-
chlorantraniliprole	Whole	0.01	0.1	112	0	0
chlorfenapyr	Whole	0.01	not set	112	-	-
chlorfenvinphos	Whole	0.01	not set	112	-	-
chlorpyrifos	Whole	0.005	0.05	112	0	0
chlorpyrifos-methyl	Whole	0.005	not set	112	-	-
clofentezine	Whole	0.01	not set	112	-	-
clothianidin	Whole	0.01	0.1	112	0	0
cyantraniliprole	Whole	0.01	0.05	112	0	0
cyfluthrin	Whole	0.01	0.05	112	0	0
cyhalothrin	Whole	0.01	not set	112	-	-
cypermethrin	Whole	0.01	0.01	112	0	0
deltamethrin	Whole	0.01	not set	112	-	-
diazinon	Whole	0.01	0.1	112	0	0
dichlorvos	Whole	0.01	2	112	0	0
dicofol	Whole	0.01	not set	112	-	-
diflubenzuron	Whole	0.01	not set	112	-	-
dimethoate	Whole	0.01	not set	112	-	-
disulfoton	Whole	0.01	not set	112	-	-
emamectin	Whole	0.005	not set	112	-	-
ethion	Whole	0.01	not set	112	-	-
ethoprophos	Whole	0.005	not set	112	-	-

etoxazole	Whole	0.01	not set	112	-	-
fenamiphos	Whole	0.01	not set	112	-	-
fenbutatin oxide	Whole	0.01	not set	112	-	-
fenitrothion	Whole	0.01	not set	112	-	-
fenoxycarb	Whole	0.01	not set	112	-	-
fenpyroximate	Whole	0.01	not set	112	-	-
fenthion	Whole	0.01	not set	112	-	-
fenvalerate	Whole	0.01	not set	112	-	-
fipronil	Whole	0.005	not set	112	-	-
flonicamid	Whole	0.01	not set	112	-	-
flupyradifurone	Whole	0.01	0.01	112	0	0
hexythiazox	Whole	0.01	not set	112	-	-
imidacloprid	Whole	0.01	not set	112	-	-
indoxacarb	Whole	0.01	0.03	112	0	0
malathion	Whole	0.01	8	112	0	0
metaldehyde	Whole	0.05	not set	112	-	-
methacrifos	Whole	0.01	not set	112	-	-
methamidophos	Whole	0.01	not set	112	-	-
methidathion	Whole	0.01	not set	112	-	-
methiocarb	Whole	0.01	not set	112	-	-
methomyl	Whole	0.01	1	112	0	0
methoprene	Whole	0.01	not set	112	-	-
methoxychlor	Whole	0.01	not set	112	-	-
methoxyfenozide	Whole	0.01	0.05	112	0	0
mevinphos	Whole	0.01	not set	112	-	-
monocrotophos	Whole	0.01	not set	112	-	-
novaluron	Whole	0.01	not set	112	-	-
omethoate	Whole	0.01	not set	112	-	-
parathion	Whole	0.01	not set	112	-	-
parathion-methyl	Whole	0.01	not set	112	-	-
permethrin	Whole	0.01	not set	112	-	-
phenothrin	Whole	0.01	not set	112	-	-
phorate	Whole	0.01	not set	112	-	-
phosmet	Whole	0.01	not set	112	-	-
piperonyl butoxide	Whole	0.01	8	112	0	0
pirimicarb	Whole	0.01	0.05	112	0	0
pirimiphos-methyl	Whole	0.01	not set	112	-	-
profenofos	Whole	0.01	not set	112	-	-
propargite	Whole	0.01	not set	112	-	-
prothiofos	Whole	0.01	not set	112	-	-
pymetrozine	Whole	0.01	not set	112	-	-
pyrethrins	Whole	0.05	1	112	0	0

pyridaben	Whole	0.02	not set	112	-	-
pyriproxyfen	Whole	0.01	0.01	112	0	0
spinetoram	Whole	0.01	0.02	112	0	0
spinosad	Whole	0.01	0.01	112	0	0
spirotetramat	Whole	0.01	not set	112	-	-
sulfoxaflor	Whole	0.01	0.01	112	0	0
tau-fluvalinate	Whole	0.01	not set	112	-	-
tebufenozide	Whole	0.01	0.05	112	0	0
tebufenpyrad	Whole	0.01	not set	112	-	-
terbufos	Whole	0.005	not set	112	-	-
tetradifon	Whole	0.01	not set	112	-	-
thiacloprid	Whole	0.01	not set	112	-	-
thiamethoxam	Whole	0.01	not set	112	-	-
thiodicarb	Whole	0.01	not set	112	-	-
triazofos	Whole	0.01	not set	112	-	-
trichlorfon	Whole	0.01	0.1	112	0	0
triflumuron	Whole	0.01	not set	112	-	-

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	112	0	0
cadmium	Whole	0.01	no limit	112	0	0
copper	Whole	0.05	no limit	112	0	0
lead	Whole	0.01	no limit	112	0	0
mercury (total)	Whole	0.01	no limit	112	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	not set	112	-	-
forchlorfenuron	Whole	0.01	not set	112	-	-
prohexadione-calcium	Whole	0.01	not set	112	-	-