Australian Government

Department of Agriculture, Fisheries and Forestry

Macadamia 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.

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	137	-	-
chlordane	Whole	0.01	not set	137	-	-
DDT	Whole	0.01	not set	137	-	-
endosulfan	Whole	0.01	not set	137	-	-
endrin	Whole	0.01	not set	137	-	-
HCB (hexachlorobenzene)	Whole	0.01	not set	137	-	-
HCH (BHC)	Whole	0.01	not set	137	-	-
heptachlor	Whole	0.01	not set	137	-	-
lindane (gamma-HCH)	Whole	0.01	not set	137	-	-
mirex	Whole	0.01	not set	137	-	-

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	137	-	-
azoxystrobin	Whole	0.01	0.01	137	0	0
benalaxyl	Whole	0.01	not set	137	-	-
bitertanol	Whole	0.01	not set	137	-	-
boscalid	Whole	0.01	0.5	137	0	0
bupirimate	Whole	0.01	not set	137	-	-
captafol	Whole	0.05	not set	137	-	-
captan	Whole	0.05	3	137	0	0
carbendazim	Whole	0.01	0.1	137	0	0
chlorothalonil	Whole	0.01	not set	137	-	-
cyproconazole	Whole	0.01	not set	137	-	-
cyprodinil	Whole	0.01	not set	137	-	-
difenoconazole	Whole	0.01	0.01	137	0	0
dimethomorph	Whole	0.01	not set	137	-	-
dithianon	Whole	0.01	not set	137	-	-
dithiocarbamates	Whole	0.2	not set	137	-	-
dodine	Whole	0.01	not set	137	-	-
epoxiconazole	Whole	0.01	not set	137	-	-
etridiazole	Whole	0.01	not set	137	-	-
fenarimol	Whole	0.01	not set	137	-	-
fenbuconazole	Whole	0.01	not set	137	-	-
fenhexamid	Whole	0.01	not set	137	-	-
fluazinam	Whole	0.01	not set	137	-	-
fludioxonil	Whole	0.01	not set	137	-	-
fluopyram	Whole	0.01	0.2	137	0	0
fluquinconazole	Whole	0.01	not set	137	-	-
flusilazole	Whole	0.01	not set	137	-	-
flutriafol	Whole	0.01	0.5	137	0	0
fluxapyroxad	Whole	0.01	0.07	70	0	0
hexaconazole	Whole	0.01	not set	137	-	-
imazalil	Whole	0.01	not set	137	-	-
iprodione	Whole	0.01	0.01	137	0	0
isopyrazam	Whole	0.01	not set	137	-	-
kresoxim-methyl	Whole	0.01	not set	137	-	-
mandestrobin	Whole	0.01	not set	137	-	-
mefentrifluconazole	Whole	0.01	0.01	137	0	0
metalaxyl	Whole	0.01	1	137	0	0
metrafenone	Whole	0.01	not set	137	-	-
myclobutanil	Whole	0.01	not set	137	-	-

oxadixyl	Whole	0.01	not set	137	-	-
paclobutrazol	Whole	0.01	not set	137	-	-
penconazole	Whole	0.01	not set	137	-	-
penthiopyrad	Whole	0.01	0.1	137	0	0
prochloraz	Whole	0.01	not set	137	-	-
procymidone	Whole	0.01	not set	137	-	-
propiconazole	Whole	0.01	0.2	137	0	0
prothioconazole	Whole	0.01	not set	137	-	-
pyraclostrobin	Whole	0.01	0.07	137	0	0
pyrimethanil	Whole	0.01	not set	137	-	-
tebuconazole	Whole	0.01	0.01	137	0	0
thiabendazole	Whole	0.01	not set	137	-	-
tolclofos methyl	Whole	0.01	not set	137	-	-
triadimefon	Whole	0.01	not set	137	-	-
triadimenol	Whole	0.01	not set	137	-	-
trifloxystrobin	Whole	0.01	not set	137	-	-
triforine	Whole	0.01	not set	137	-	-
triticonazole	Whole	0.01	not set	137	-	-
uniconazole-P	Whole	0.01	not set	137	-	-
vinclozolin	Whole	0.01	not set	137	-	-

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	137	-	-
2,4-D	Whole	0.01	not set	137	-	-
amitrole	Whole	0.01	not set	70	-	-
atrazine	Whole	0.01	not set	137	-	-
bromacil	Whole	0.01	not set	137	-	-
bromoxynil	Whole	0.01	not set	137	-	-
carfentrazone-ethyl	Whole	0.01	0.05	137	0	0
chlormequat	Whole	0.01	not set	70	-	-
chlorpropham	Whole	0.05	not set	137	-	-
chlorsulfuron	Whole	0.01	not set	137	-	-
chlorthal-dimethyl	Whole	0.01	not set	137	-	-
clethodim	Whole	0.01	not set	137	-	-
clodinafop-propargyl	Whole	0.01	not set	137	-	-
clopyralid	Whole	0.05	not set	137	-	-
cyanazine	Whole	0.01	not set	137	-	-
dicamba	Whole	0.01	not set	137	-	-

dichlobenil	Whole	0.01	not set	137	-	-
dichlorprop-P	Whole	0.01	not set	70	-	-
diclofop-methyl	Whole	0.01	not set	70	-	-
diflufenican	Whole	0.01	not set	137	-	-
diquat	Whole	0.01	0.05	70	0	0
diuron	Whole	0.01	not set	137	-	-
ethofumesate	Whole	0.01	not set	137	-	-
fenoxaprop-ethyl	Whole	0.01	not set	137	-	-
flamprop-M-methyl	Whole	0.01	not set	70	-	-
fluazifop-p-butyl	Whole	0.01	not set	70	-	-
flumioxazin	Whole	0.02	0.02	137	0	0
glufosinate	Whole	0.01	0.1	70	0	0
glyphosate	Whole	0.01	0.2	70	0	0
haloxyfop	Whole	0.005	0.05	70	0	0
iodosulfuron-methyl	Whole	0.01	not set	137	-	-
ioxynil	Whole	0.01	not set	137	-	-
isoxaben	Whole	0.01	0.01	137	0	0
linuron	Whole	0.01	not set	137	-	-
MCPA	Whole	0.01	not set	137	-	-
metamitron	Whole	0.01	not set	137	-	-
methabenzthiazuron	Whole	0.01	not set	137	-	-
metolachlor	Whole	0.01	not set	137	-	-
metosulam	Whole	0.01	not set	137	-	-
metribuzin	Whole	0.01	not set	137	-	-
metsulfuron-methyl	Whole	0.01	not set	137	-	-
napropamide	Whole	0.01	not set	137	-	-
norflurazon	Whole	0.01	0.2	137	0	0
oryzalin	Whole	0.01	0.1	137	0	0
oxyfluorfen	Whole	0.01	0.05	137	0	0
paraquat	Whole	0.01	0.05	70	0	0
pendimethalin	Whole	0.01	0.05	137	0	0
picloram	Whole	0.01	not set	137	-	-
propachlor	Whole	0.01	not set	137	-	-
propaquizafop	Whole	0.01	not set	70	-	-
propyzamide	Whole	0.01	not set	137	-	-
quizalofop-ethyl	Whole	0.01	not set	70	-	-
quizalofop-P-tefuryl	Whole	0.01	not set	70	-	-
saflufenacil	Whole	0.01	0.03	137	0	0
sethoxydim	Whole	0.01	not set	137	-	-
simazine	Whole	0.01	0.1	137	0	0
tralkoxydim	Whole	0.01	not set	137	-	-
triasulfuron	Whole	0.01	not set	137	-	-

triclopyr	Whole	0.01	not set	137	-	-
trifluralin	Whole	0.01	not set	137	-	-

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	137	0	0
acephate	Whole	0.05	0.1	137	0	0
acetamiprid	Whole	0.01	0.01	137	0	0
aldicarb	Whole	0.01	not set	137	-	-
amitraz	Whole	0.01	not set	137	-	-
azamethiphos	Whole	0.01	not set	137	-	-
azinphos-methyl	Whole	0.01	not set	137	-	-
bifenazate	Whole	0.01	not set	137	-	-
bifenthrin	Whole	0.01	not set	137	-	-
bioresmethrin	Whole	0.01	not set	137	-	-
buprofezin	Whole	0.01	0.1	137	0	0
cadusafos	Whole	0.005	not set	137	-	-
carbaryl	Whole	0.01	2	137	0	0
carbofuran	Whole	0.005	not set	137	-	-
chlorantraniliprole	Whole	0.01	0.1	137	0	0
chlorfenapyr	Whole	0.01	not set	137	-	-
chlorfenvinphos	Whole	0.01	not set	137	-	-
chlorpyrifos	Whole	0.005	0.05	137	0	0
chlorpyrifos-methyl	Whole	0.005	not set	137	-	-
clofentezine	Whole	0.01	not set	137	-	-
clothianidin	Whole	0.01	0.1	137	0	0
cyantraniliprole	Whole	0.01	0.01	137	0	0
cyflumetofen	Whole	0.01	not set	70	-	-
cyfluthrin	Whole	0.01	0.05	137	0	0
cyhalothrin	Whole	0.01	not set	137	-	-
cypermethrin	Whole	0.01	0.01	137	0	0
deltamethrin	Whole	0.01	not set	137	-	-
diazinon	Whole	0.01	0.1	137	0	0
dichlorvos	Whole	0.01	2	137	0	0
dicofol	Whole	0.01	not set	137	-	-
diflubenzuron	Whole	0.01	not set	137	-	-
dimethoate	Whole	0.01	not set	137	-	-
disulfoton	Whole	0.01	not set	137	-	-
emamectin	Whole	0.005	not set	137	-	-
ethion	Whole	0.01	not set	137	-	-

ethoprophos	Whole	0.005	not set	137	-	-
etoxazole	Whole	0.01	not set	137	-	-
fenamiphos	Whole	0.01	not set	137	-	-
fenbutatin oxide	Whole	0.01	not set	137	-	-
fenitrothion	Whole	0.01	not set	137	-	-
fenoxycarb	Whole	0.01	not set	137	-	-
fenpyroximate	Whole	0.01	not set	137	-	-
fenthion	Whole	0.01	not set	137	-	-
fenvalerate	Whole	0.01	not set	137	-	-
fipronil	Whole	0.005	not set	137	-	-
flonicamid	Whole	0.01	not set	137	-	-
flupyradifurone	Whole	0.01	0.01	137	0	0
hexythiazox	Whole	0.01	not set	137	-	-
imidacloprid	Whole	0.01	not set	137	-	-
indoxacarb	Whole	0.01	0.03	137	0	0
malathion	Whole	0.01	8	137	0	0
metaldehyde	Whole	0.05	not set	137	-	-
methacrifos	Whole	0.01	not set	137	-	-
methamidophos	Whole	0.01	not set	137	-	-
methidathion	Whole	0.01	not set	137	-	-
methiocarb	Whole	0.01	not set	137	-	-
methomyl	Whole	0.01	1	137	0	0
methoprene	Whole	0.01	not set	137	-	-
methoxychlor	Whole	0.01	not set	137	-	-
methoxyfenozide	Whole	0.01	0.05	137	0	0
mevinphos	Whole	0.01	not set	137	-	-
monocrotophos	Whole	0.01	not set	137	-	-
novaluron	Whole	0.01	not set	137	-	-
omethoate	Whole	0.01	not set	137	-	-
parathion	Whole	0.01	not set	137	-	-
parathion-methyl	Whole	0.01	not set	137	-	-
permethrin	Whole	0.01	not set	137	-	-
phenothrin	Whole	0.01	not set	137	-	-
phorate	Whole	0.01	not set	137	-	-
phosmet	Whole	0.01	not set	137	-	-
piperonyl butoxide	Whole	0.01	8	137	0	0
pirimicarb	Whole	0.01	0.05	137	0	0
pirimiphos-methyl	Whole	0.01	not set	137	-	-
profenofos	Whole	0.01	not set	137	-	-
propargite	Whole	0.01	not set	137	-	-
prothiofos	Whole	0.01	not set	137	-	-
pymetrozine	Whole	0.01	not set	137	-	-

pyrethrins	Whole	0.05	1	137	0	0
pyridaben	Whole	0.02	not set	137	-	-
pyriproxyfen	Whole	0.01	0.01	137	0	0
spinetoram	Whole	0.01	0.02	137	0	0
spinosad	Whole	0.01	0.01	137	0	0
spirotetramat	Whole	0.01	not set	137	-	-
sulfoxaflor	Whole	0.01	0.01	137	0	0
tau-fluvalinate	Whole	0.01	not set	137	-	-
tebufenozide	Whole	0.01	0.05	137	0	0
tebufenpyrad	Whole	0.01	not set	137	-	-
terbufos	Whole	0.005	not set	137	-	-
tetradifon	Whole	0.01	not set	137	-	-
tetraniliprole	Whole	0.01	0.01	70	0	0
thiacloprid	Whole	0.01	not set	137	-	-
thiamethoxam	Whole	0.01	not set	137	-	-
thiodicarb	Whole	0.01	not set	137	-	-
triazofos	Whole	0.01	not set	137	-	-
trichlorfon	Whole	0.01	0.1	137	0	0
triflumuron	Whole	0.01	not set	137	-	-

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	137	0	0
cadmium	Whole	0.01	no limit	137	0	0
copper	Whole	0.05	no limit	137	0	0
lead	Whole	0.01	no limit	137	0	0
mercury (total)	Whole	0.01	no limit	137	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	137	-	-
forchlorfenuron	Whole	0.01	not set	137	-	-
prohexadione-calcium	Whole	0.01	not set	137	-	-