



# Lentil residue testing annual datasets 2020–21

National Residue Survey, Department of Agriculture, Water and the Environment

## 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

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**Table 1 Fungicides**

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
azoxystrobin	whole	0.01	0.3	61	0	0
benalaxyl	whole	0.01	not set	61	–	0
bitertanol	whole	0.01	not set	61	–	0
bixafen	whole	0.01	0.01	61	0	0
boscalid	whole	0.01	3	61	0	0
bupirimate	whole	0.01	not set	61	–	0
captafol	whole	0.02	not set	61	–	0
captan	whole	0.01	0.1	61	0	0
carbendazim	whole	0.01	0.5	61	0	0
carboxin	whole	0.01	not set	61	–	0
chlorothalonil	whole	0.01	3	61	0	0

## Lentil residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	0.05	61	0	0
cyprodinil	whole	0.01	not set	61	–	0
difenoconazole	whole	0.01	not set	61	–	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	61	–	0
dithianon	whole	0.01	not set	61	–	0
dodine	whole	0.01	not set	61	–	0
epoxiconazole	whole	0.01	not set	61	–	0
etridiazole	whole	0.01	0.2	61	0	0
fenarimol	whole	0.01	not set	61	–	0
fenbuconazole	whole	0.01	not set	61	–	0
fenhexamid	whole	0.01	not set	61	–	0
fluazinam	whole	0.01	not set	61	–	0
fludioxonil	whole	0.01	0.1	61	0	0
fluquinconazole	whole	0.01	not set	61	–	0
flusilazole	whole	0.01	not set	61	–	0
flutriafol	whole	0.01	0.05	61	0	0
fluxapyroxad	whole	0.01	0.01	61	0	1
hexaconazole	whole	0.01	not set	61	–	0
imazalil	whole	0.01	not set	61	–	0
ipconazole	whole	0.01	not set	61	–	0
iprodione	whole	0.01	not set	61	–	0
isoprothiolane	whole	0.01	not set	61	–	0
kresoxim-methyl	whole	0.01	not set	61	–	0
metalaxyl	whole	0.01	not set	61	–	0
myclobutanil	whole	0.01	not set	61	–	0
oxadixyl	whole	0.01	not set	61	–	0
penconazole	whole	0.01	not set	61	–	0
penflufen	whole	0.01	0.01	61	0	0
prochloraz	whole	0.01	not set	61	–	0
procymidone	whole	0.01	0.5	61	0	0
propiconazole	whole	0.01	not set	61	0	0
prothioconazole	whole	0.01	0.02	61	0	0
pyraclostrobin	whole	0.01	0.5	61	0	0
pyrimethanil	whole	0.01	not set	61	–	0
quinoxyfen	whole	0.01	not set	61	–	0
sedaxane	whole	0.01	not set	61	–	0
spiroxamine	whole	0.01	not set	61	–	0
tebuconazole	whole	0.01	1	61	0	0
thiabendazole	whole	0.01	not set	61	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tolclofos methyl	whole	0.01	not set	61	–	0
triadimefon	whole	0.01	not set	61	–	0
triadimenol	whole	0.01	not set	61	–	0
trifloxystrobin	whole	0.01	0.01	61	0	0
triticonazole	whole	0.01	not set	61	–	0
vinclozolin	whole	0.01	not set	61	–	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	0.01	not set	61	–	0
2,4-D	whole	0.01	0.05	61	0	0
2,4-DB	whole	0.01	not set	61	–	0
acifluorfen	whole	0.01	0.1	39	0	0
ametryn	whole	0.01	not set	39	–	0
aminopyralid	whole	0.01	not set	61	–	0
amitrole	whole	0.01	0.01	12	0	0
atrazine	whole	0.01	not set	61	–	0
bentazone	whole	0.01	0.01	61	0	0
bicyclopyrone	whole	0.01	not set	39	–	0
bromacil	whole	0.01	not set	61	–	0
bromoxynil	whole	0.01	not set	61	–	0
butoxydim	whole	0.01	0.01	61	0	0
carfentrazone-ethyl	whole	0.01	not set	61	–	0
chlormequat	whole	0.01	not set	12	–	0
chlorpropham	whole	0.01	not set	61	–	0
chlorsulfuron	whole	0.01	not set	61	–	0
chlorthal-dimethyl	whole	0.01	not set	61	–	0
clethodim (parent only)	whole	0.01	0.1	61	0	0
clodinafop acid	whole	0.01	not set	39	–	0
clodinafop-propargyl	whole	0.01	not set	61	–	0
clomazone	whole	0.01	not set	39	–	0
clopyralid	whole	0.01	not set	61	–	0
cloquintocet-mexyl	whole	0.01	not set	39	–	0
cyanazine	whole	0.01	0.01	61	0	0
dicamba	whole	0.01	not set	61	–	0
dichlobenil	whole	0.01	not set	61	–	0
dichlorprop	whole	0.01	not set	12	–	0
diclofop-methyl	whole	0.01	not set	12	–	0

## Lentil residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diflufenican	whole	0.01	0.05	61	0	0
dimethenamid	whole	0.01	0.02	39	0	0
diquat	whole	0.01	1	12	0	0
diuron	whole	0.01	0.05	61	0	0
EPTC	whole	0.01	0.04	39	0	0
ethofumesate	whole	0.01	not set	61	–	0
fenoxaprop-ethyl	whole	0.01	not set	61	–	0
flamprop-M-methyl	whole	0.01	not set	12	–	0
florasulam	whole	0.01	not set	39	–	0
fluazifop-p-butyl	whole	0.01	0.5	12	0	0
flumetsulam	whole	0.01	0.05	61	0	0
flumioxazin	whole	0.01	0.1	61	0	0
fluroxypyr	whole	0.01	not set	61	–	0
glufosinate	whole	0.01	not set	12	–	0
glyphosate	whole	0.01	5	12	0	0
halauxifen-methyl	whole	0.01	not set	39	–	0
halosulfuron-methyl	whole	0.01	not set	39	–	0
haloxyfop	whole	0.01	0.1	12	0	0
imazamox	whole	0.01	0.01	55	0	0
imazapic	whole	0.01	not set	55	–	0
imazapyr	whole	0.01	0.01	55	0	0
imazaquin	whole	0.01	not set	55	–	0
imazethapyr	whole	0.01	0.1	55	0	0
iodosulfuron-methyl	whole	0.01	not set	61	–	0
ioxynil	whole	0.01	not set	61	–	0
isoxaben	whole	0.01	not set	61	–	0
isoxaflutole	whole	0.01	not set	39	–	0
linuron	whole	0.01	not set	61	–	0
MCPA	whole	0.01	not set	61	–	0
MCPB	whole	0.01	0.02	39	0	0
mefenpyr-diethyl	whole	0.01	not set	39	–	0
metazachlor	whole	0.01	0.03	39	0	0
methabenzthiazuron	whole	0.01	not set	61	0	0
metolachlor	whole	0.01	0.01	61	0	0
metosulam	whole	0.01	not set	61	–	0
metribuzin	whole	0.01	0.01	61	0	0
metsulfuron-methyl	whole	0.01	not set	61	–	0
napropamide	whole	0.01	not set	61	–	0
norflurazon	whole	0.01	not set	61	–	0

## Lentil residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
oryzalin	whole	0.01	not set	61	–	0
oxyfluorfen	whole	0.01	not set	61	–	0
paraquat	whole	0.01	1	12	0	0
pendimethalin	whole	0.01	0.05	61	0	0
picloram	whole	0.01	not set	61	–	0
picolinafen	whole	0.01	not set	39	–	0
pinoxaden (parent)	whole	0.01	not set	39	–	0
prometryn	whole	0.01	0.1	39	0	0
propachlor	whole	0.01	not set	61	–	0
propaquizafop	whole	0.01	0.05	12	0	0
propyzamide	whole	0.01	0.01	61	0	0
prosulfocarb	whole	0.01	0.01	39	0	0
pyraflufen-ethyl	whole	0.01	0.02	39	0	0
pyrasulfotole	whole	0.01	not set	39	–	0
pyroxasulfone	whole	0.01	0.01	39	0	0

**Table 3 Insecticides**

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
acephate	whole	0.01	not set	61	–	0
acetamiprid	whole	0.01	0.1	61	0	0
aldicarb	whole	0.01	not set	61	–	0
amitraz	whole	0.01	not set	61	–	0
azamethiphos	whole	0.01	not set	61	–	0
azinphos-methyl	whole	0.01	not set	61	–	0
bifenazate	whole	0.01	not set	61	–	0
bifenthrin	whole	0.01	0.02	61	0	0
bioresmethrin	whole	0.01	not set	61	–	0
buprofezin	whole	0.01	0.01	61	0	0
cadusafos	whole	0.01	not set	61	–	0
carbaryl	whole	0.01	0.1	61	0	0
carbofuran	whole	0.01	not set	61	–	0
chlorantraniliprole	whole	0.01	0.07	61	0	0
chlorfenapyr	whole	0.01	not set	61	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	61	–	0
chlorpyrifos	whole	0.01	not set	61	–	0
chlorpyrifos-methyl	whole	0.01	0.15	61	0	0
clofentezine	whole	0.01	not set	61	–	0
clothianidin	whole	0.01	0.1	61	0	0

## Lentil residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyantranilprole	whole	0.01	0.05	39	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	61	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.2	61	0	0
cypermethrin (sum of isomers)	whole	0.01	0.05	61	0	0
deltamethrin	whole	0.01	0.1	61	0	0
diafenthiuron	whole	0.01	not set	61	–	0
diazinon	whole	0.01	0.7	61	0	0
dichlorvos	whole	0.01	0.01	61	0	0
dicofol	whole	0.01	not set	61	–	0
diflubenzuron	whole	0.01	not set	61	–	0
dimethoate	whole	0.01	0.7	61	0	0
disulfoton	whole	0.01	not set	61	–	0
esfenvalerate	whole	0.01	0.5	46	0	0
ethion	whole	0.01	not set	61	–	0
ethoprophos	whole	0.005	not set	61	–	0
etoxazole	whole	0.01	not set	61	–	0
fenamiphos	whole	0.01	not set	61	–	0
fenbutatin oxide	whole	0.01	not set	61	–	0
fenitrothion	whole	0.01	0.1	61	0	0
fenoxycarb	whole	0.01	not set	61	–	0
fenpyroximate	whole	0.01	not set	61	–	0
fenthion	whole	0.01	not set	61	–	0
fenvalerate (sum of isomers)	whole	0.01	0.5	61	0	0
fipronil	whole	0.002	not set	61	–	0
flonicamid	whole	0.01	not set	39	–	0
hexythiazox	whole	0.01	not set	61	–	0
imidacloprid	whole	0.01	0.2	61	0	0
indoxacarb	whole	0.01	0.2	61	0	0
malathion (maldison)	whole	0.01	8	61	0	0
methacrifos	whole	0.01	not set	61	–	0
methamidophos	whole	0.01	not set	61	–	0
methidathion	whole	0.01	not set	61	–	0
methiocarb	whole	0.01	not set	61	–	0
methomyl	whole	0.01	1	61	0	0
methoprene	whole	0.01	not set	61	–	0
methoxychlor	whole	0.01	not set	61	–	0
methoxyfenozide	whole	0.01	not set	61	–	0
mevinphos	whole	0.01	not set	61	–	0

## Lentil residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
monocrotophos	whole	0.01	not set	61	–	0
omethoate	whole	0.01	0.1	61	0	0
parathion	whole	0.01	not set	61	–	0
parathion-methyl	whole	0.01	not set	61	–	0
permethrin (sum of isomers)	whole	0.01	not set	61	–	0
phenothrin (sum of isomers)	whole	0.01	not set	61	–	0
phorate	whole	0.01	not set	61	–	0
phosmet	whole	0.01	not set	61	–	0
piperonyl butoxide	whole	0.01	8	61	0	0
pirimicarb	whole	0.01	0.02	61	0	0
pirimiphos-methyl	whole	0.01	not set	61	–	0
profenofos	whole	0.01	not set	61	–	0
propargite	whole	0.01	not set	61	–	0
prothiofos	whole	0.01	not set	61	–	0
pymetrozine	whole	0.01	not set	61	–	0
pyrethrins	whole	0.01	1	61	0	0
pyriproxyfen	whole	0.01	not set	61	–	0
spinetoram	whole	0.01	0.01	61	0	0
spinosad	whole	0.01	0.01	61	0	0
spirotetramat	whole	0.01	not set	61	–	0
sulfoxaflor	whole	0.01	not set	61	–	0
tau-fluvalinate	whole	0.01	not set	61	–	0
tebufenozide	whole	0.01	not set	61	–	0
tebufenpyrad	whole	0.01	not set	61	–	0
terbufos	whole	0.01	not set	61	–	0
tetradifon	whole	0.01	not set	61	–	0
thiacloprid	whole	0.01	not set	61	–	0
thiamethoxam	whole	0.01	0.5	61	0	0
thiodicarb	whole	0.01	0.1	61	0	0
triazofos	whole	0.01	not set	61	–	0
trichlorfon	whole	0.01	0.2	61	0	0
triflumuron	whole	0.01	not set	61	–	0
abamectin	whole	0.01	not set	61	–	0
emamectin	whole	0.01	0.01	61	0	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	not set	61	–	0
chlordane	whole	0.01	0.02	61	0	0
DDT	whole	0.01	1	61	0	0
endosulfan	whole	0.01	not set	61	–	0
endrin	whole	0.01	not set	61	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	61	–	0
HCH (BHC)	whole	0.01	not set	61	–	0
heptachlor	whole	0.01	0.05	61	0	0
lindane (gamma-HCH)	whole	0.01	2	61	0	0
mirex	whole	0.01	not set	61	–	0

**Table 5 Physiological modifier**

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
trinexapac-ethyl	whole	0.01	not set	39	0	0