



Barley 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.

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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	0.2	1084	0	0
benalaxyl	whole	0.01	not set	1084	–	0
bitertanol	whole	0.01	not set	1084	–	0
bixafen	whole	0.01	0.01	1084	0	0
boscalid	whole	0.01	0.5	1084	0	0
bupirimate	whole	0.01	not set	1084	–	0
captafol	whole	0.02	not set	1084	–	0
captan	whole	0.01	not set	1084	–	0
carbendazim	whole	0.01	not set	1084	–	0
carboxin	whole	0.01	0.1	1084	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorothalonil	whole	0.01	not set	1084	–	0
cyproconazole	whole	0.01	0.02	1084	0	0
cyprodinil	whole	0.01	not set	1084	–	0
difenoconazole	whole	0.01	0.01	1084	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	1084	–	0
dithianon	whole	0.01	not set	1084	–	0
dodine	whole	0.01	not set	1084	–	0
epoxiconazole	whole	0.01	0.05	1084	0	0
etridiazole	whole	0.01	not set	1084	–	0
fenarimol	whole	0.01	not set	1084	–	0
fenbuconazole	whole	0.01	not set	1084	–	0
fenhexamid	whole	0.01	not set	1084	–	0
fluazinam	whole	0.01	not set	1084	–	0
fludioxonil	whole	0.01	not set	1084	–	0
fluquinconazole	whole	0.01	0.02	1084	0	0
flusilazole	whole	0.01	not set	1084	–	0
flutriafol	whole	0.01	0.2	1084	0	0
fluxapyroxad	whole	0.01	0.2	1084	0	1
hexaconazole	whole	0.01	not set	1084	–	0
imazalil	whole	0.01	not set	1084	–	0
ipconazole	whole	0.01	0.01	1084	0	0
iprodione	whole	0.01	not set	1084	–	0
isoprothiolane	whole	0.01	not set	1084	–	0
kresoxim-methyl	whole	0.01	not set	1084	–	0
metalaxyl	whole	0.01	0.01	1084	0	0
myclobutanil	whole	0.01	not set	1084	–	0
oxadixyl	whole	0.01	not set	1084	–	0
penconazole	whole	0.01	not set	1084	–	0
penflufen	whole	0.01	0.01	1084	0	0
prochloraz	whole	0.01	not set	1084	–	0
procymidone	whole	0.01	not set	1084	–	0
propiconazole	whole	0.01	0.05	1084	0	0
prothioconazole	whole	0.01	0.3	1084	0	0
pyraclostrobin	whole	0.01	0.01	1084	0	0
pyrimethanil	whole	0.01	not set	1084	–	0
quinoxifen	whole	0.01	0.01	1084	0	0
sedaxane	whole	0.01	0.01	1084	0	0
spiroxamine	whole	0.01	0.03	1084	0	0
tebuconazole	whole	0.01	0.2	1084	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
thiabendazole	whole	0.01	not set	1084	–	0
tolclofos methyl	whole	0.01	not set	1084	–	0
triadimefon	whole	0.01	0.5	1084	0	0
triadimenol	whole	0.01	0.01	1084	0	1
trifloxystrobin	whole	0.01	not set	1084	–	0
triticonazole	whole	0.01	0.05	1084	0	0
vinclozolin	whole	0.01	not set	1084	–	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	0.1	1084	0	0
2,4-D	whole	0.01	0.2	1084	0	0
2,4-DB	whole	0.01	0.02	1084	0	0
acifluorfen	whole	0.01	not set	741	–	0
ametryn	whole	0.01	not set	741	–	0
aminopyralid	whole	0.01	0.1	1084	0	0
amitrole	whole	0.01	0.01	621	0	0
atrazine	whole	0.01	not set	1084	–	0
bentazone	whole	0.01	not set	1084	–	0
bicyclopyrone	whole	0.01	0.02	741	0	0
bromacil	whole	0.01	not set	1084	–	0
bromoxynil	whole	0.01	0.2	1084	0	0
butroxydim	whole	0.01	not set	1084	–	0
carfentrazone-ethyl	whole	0.01	0.05	1084	0	0
chlormequat	whole	0.01	2	621	0	0
chlorpropham	whole	0.01	not set	1084	–	0
chlorsulfuron	whole	0.01	0.05	1084	0	0
chlorthal-dimethyl	whole	0.01	not set	1084	–	0
clethodim (parent only)	whole	0.01	0.1	1084	0	0
clodinafop acid	whole	0.01	not set	741	–	0
clodinafop-propargyl	whole	0.01	0.02	1084	0	0
clomazone	whole	0.01	not set	741	–	0
clopyralid	whole	0.01	2	1084	0	0
cloquintocet-mexyl	whole	0.01	0.1	741	0	0
cyanazine	whole	0.01	0.01	1084	0	0
dicamba	whole	0.01	0.05	1084	0	0
dichlobenil	whole	0.01	not set	1084	–	0
dichlorprop	whole	0.01	not set	621	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diclofop-methyl	whole	0.01	0.1	621	0	0
diflufenican	whole	0.01	0.05	1084	0	0
dimethenamid	whole	0.01	not set	741	–	0
diquat	whole	0.01	5	621	0	0
diuron	whole	0.01	0.1	1084	0	0
EPTC	whole	0.01	0.04	724	0	0
EPTC (ethylpropylthiocarbamate)	whole	0.01	not set	17	–	0
ethofumesate	whole	0.01	not set	1084	–	0
fenoxaprop-ethyl	whole	0.01	0.01	1084	0	0
flamprop-M-methyl	whole	0.01	not set	621	–	0
florasulam	whole	0.01	0.01	741	0	0
fluazifop-p-butyl	whole	0.01	not set	621	–	0
flumetsulam	whole	0.01	0.05	1084	0	0
flumioxazin	whole	0.01	0.05	1084	0	0
fluroxypyr	whole	0.01	0.2	1084	0	0
glufosinate	whole	0.01	0.1	621	0	0
glyphosate	whole	0.01	20	621	0	0
halauxifen-methyl	whole	0.01	0.01	741	0	0
halosulfuron-methyl	whole	0.01	not set	741	–	0
haloxyfop	whole	0.01	not set	621	–	0
imazamox	whole	0.01	0.05	870	0	0
imazapic	whole	0.01	0.02	870	0	0
imazapyr	whole	0.01	0.7	870	2	0
imazaquin	whole	0.01	not set	870	–	0
imazethapyr	whole	0.01	not set	870	–	0
iodosulfuron-methyl	whole	0.01	0.01	1084	0	0
ioxynil	whole	0.01	not set	1084	–	0
isoxaben	whole	0.01	0.01	1084	0	0
isoxaflutole	whole	0.01	0.02	741	0	0
linuron	whole	0.01	0.05	1084	0	0
MCPA	whole	0.01	0.02	1084	0	0
MCPB	whole	0.01	0.02	741	0	0
mefenpyr-diethyl	whole	0.01	0.01	741	0	0
metazachlor	whole	0.01	0.03	741	0	0
methabenzthiazuron	whole	0.01	not set	1084	–	0
metolachlor	whole	0.01	0.02	1084	0	0
metosulam	whole	0.01	0.02	1084	0	0
metribuzin	whole	0.01	0.05	1084	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
metsulfuron-methyl	whole	0.01	0.02	1084	0	0
napropamide	whole	0.01	not set	1084	–	0
norflurazon	whole	0.01	not set	1084	–	0
oryzalin	whole	0.01	0.01	1084	0	0
oxyfluorfen	whole	0.01	0.05	1084	0	0
paraquat	whole	0.01	0.05	621	1	1
pendimethalin	whole	0.01	0.05	1084	0	0
picloram	whole	0.01	0.2	1084	0	0
picolinafen	whole	0.01	0.02	741	0	0
pinoxaden (parent)	whole	0.01	0.1	741	0	0
prometryn	whole	0.01	0.1	741	0	0
propachlor	whole	0.01	0.05	1084	0	0
propaquizafop	whole	0.01	not set	621	–	0
propyzamide	whole	0.01	not set	1084	–	0
prosulfocarb	whole	0.01	0.01	741	0	0
pyraflufen-ethyl	whole	0.01	0.02	741	0	0
pyrasulfotole	whole	0.01	0.02	741	0	0
pyroxasulfone	whole	0.01	0.01	741	0	0
pyroxulam	whole	0.01	not set	741	–	0
quizalofop-ethyl	whole	0.01	not set	621	–	0
quizalofop-P-tefuryl	whole	0.01	not set	621	–	0
saflufenacil	whole	0.01	0.2	1084	0	0
sethoxydim	whole	0.01	0.1	1084	0	0
simazine	whole	0.01	not set	1084	–	0
sulfosulfuron	whole	0.01	not set	741	–	0
terbuthylazine	whole	0.01	0.01	741	0	0
terbutryn	whole	0.01	0.1	1084	0	0
tralkoxydim	whole	0.01	0.02	1084	0	0
triallate	whole	0.01	0.05	1084	0	0
triasulfuron	whole	0.01	0.02	1084	0	0
tribenuron-methyl	whole	0.01	0.01	741	0	0
triclopyr	whole	0.01	not set	1084	–	0
trifluralin	whole	0.01	0.05	1084	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
abamectin	whole	0.01	not set	1084	–	0
acephate	whole	0.01	not set	1084	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
acetamiprid	whole	0.01	not set	1084	–	0
aldicarb	whole	0.01	not set	1084	–	0
amitraz	whole	0.01	not set	1084	–	0
azamethiphos	whole	0.01	0.1	1084	0	0
azinphos-methyl	whole	0.01	not set	1084	–	0
bifenazate	whole	0.01	not set	1084	–	0
bifenthrin	whole	0.01	0.02	1084	0	0
bioresmethrin	whole	0.01	not set	1084	–	0
buprofezin	whole	0.01	0.01	1084	0	0
cadusafos	whole	0.01	not set	1084	–	0
carbaryl	whole	0.01	15	1084	0	0
carbofuran	whole	0.01	not set	1084	–	0
chlorantraniliprole	whole	0.01	0.1	1084	0	0
chlorfenapyr	whole	0.01	not set	1084	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	1084	–	0
chlorpyrifos	whole	0.01	0.1	1084	1	0
chlorpyrifos-methyl	whole	0.01	10	1084	0	0
clofentezine	whole	0.01	not set	1084	–	0
clothianidin	whole	0.01	0.02	1084	0	0
cyantraniliprole	whole	0.01	0.05	741	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	1084	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.2	1084	0	0
cypermethrin (sum of isomers)	whole	0.01	1	1084	0	0
deltamethrin	whole	0.01	2	1084	0	0
diafenthiuron	whole	0.01	not set	1084	–	0
diazinon	whole	0.01	0.1	1084	0	0
dichlorvos	whole	0.01	0.01	1084	0	0
dicofol	whole	0.01	not set	1084	–	0
diflubenzuron	whole	0.01	not set	1084	–	0
dimethoate	whole	0.01	0.5	1084	0	0
disulfoton	whole	0.01	not set	1084	–	0
emamectin	whole	0.01	not set	1084	–	0
esfenvalerate	whole	0.01	2	688	0	0
ethion	whole	0.01	not set	1084	–	0
ethoprophos	whole	0.005	0.005	1084	0	0
etoxazole	whole	0.01	not set	1084	–	0
fenamiphos	whole	0.01	not set	1084	–	0
fenbutatin oxide	whole	0.01	not set	1084	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fenitrothion	whole	0.01	10	1084	0	0
fenoxycarb	whole	0.01	not set	1084	–	0
fenpyroximate	whole	0.01	not set	1084	–	0
fenthion	whole	0.01	not set	1084	–	0
fenvalerate (sum of isomers)	whole	0.01	2	1084	0	0
fipronil	whole	0.002	not set	1084	–	0
flonicamid	whole	0.01	not set	741	–	0
hexythiazox	whole	0.01	not set	1084	–	0
imidacloprid	whole	0.01	0.05	1084	0	2
indoxacarb	whole	0.01	not set	1084	–	0
malathion (maldison)	whole	0.01	8	1084	0	0
methacrifos	whole	0.01	not set	1084	–	0
methamidophos	whole	0.01	not set	1084	–	0
methidathion	whole	0.01	not set	1084	–	0
methiocarb	whole	0.01	not set	1084	–	0
methomyl	whole	0.01	0.1	1084	0	0
methoprene	whole	0.01	2	1084	0	0
methoxychlor	whole	0.01	not set	1084	–	0
methoxyfenozide	whole	0.01	not set	1084	–	0
mevinphos	whole	0.01	not set	1084	–	0
monocrotophos	whole	0.01	not set	1084	–	0
omethoate	whole	0.01	0.05	1084	0	0
parathion	whole	0.01	not set	1084	–	0
parathion-methyl	whole	0.01	not set	1084	–	0
permethrin (sum of isomers)	whole	0.01	2	1084	0	0
phenothrin (sum of isomers)	whole	0.01	not set	1084	–	0
phorate	whole	0.01	not set	1084	–	0
phosmet	whole	0.01	0.05	1084	0	0
piperonyl butoxide	whole	0.01	20	1084	0	0
pirimicarb	whole	0.01	0.02	1084	0	0
pirimiphos-methyl	whole	0.01	7	1084	0	0
profenofos	whole	0.01	not set	1084	–	0
propargite	whole	0.01	not set	1084	–	0
prothiofos	whole	0.01	not set	1084	–	0
pymetrozine	whole	0.01	not set	1084	–	0
pyrethrins	whole	0.01	3	1084	1	0
pyriproxyfen	whole	0.01	not set	1084	–	0
spinetoram	whole	0.01	not set	1084	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
spinosad	whole	0.01	1	1084	2	0
spirotetramat	whole	0.01	not set	1084	–	0
sulfoxaflor	whole	0.01	0.01	1084	0	0
tau-fluvalinate	whole	0.01	not set	1084	–	0
tebufenozide	whole	0.01	not set	1084	–	0
tebufenpyrad	whole	0.01	not set	1084	–	0
terbufos	whole	0.01	0.01	1084	0	0
tetradifon	whole	0.01	not set	1084	–	0
thiacloprid	whole	0.01	not set	1084	–	0
thiamethoxam	whole	0.01	0.01	1084	0	0
thiodicarb	whole	0.01	not set	1084	–	0
triazofos	whole	0.01	not set	1084	–	0
trichlorfon	whole	0.01	0.1	1084	0	0
triflumuron	whole	0.01	0.05	1084	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	0.02	1084	0	0
chlordane	whole	0.01	0.02	1084	0	0
DDT	whole	0.01	0.1	1084	0	0
endosulfan	whole	0.01	not set	1084	–	0
endrin	whole	0.01	not set	1084	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	1084	0	0
HCH (BHC)	whole	0.01	0.1	1084	0	0
heptachlor	whole	0.01	0.02	1084	0	0
lindane (gamma-HCH)	whole	0.01	0.5	1084	0	0
mirex	whole	0.01	not set	1084	–	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	389	–	0