



Wheat residue testing annual datasets 2019–20

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	0.1	2039	0	0
benalaxyl	whole	0.01	not set	2039	–	0
bitertanol	whole	0.01	not set	2039	–	0
bixafen	whole	0.01	0.01	2039	0	0
boscalid	whole	0.01	0.5	2039	0	0
bupirimate	whole	0.01	not set	2039	–	0
captafol	whole	0.02	not set	2039	–	0
captan	whole	0.01	not set	2039	–	0
carbendazim	whole	0.01	not set	2039	–	0
carboxin	whole	0.01	0.1	2039	0	0
chlorothalonil	whole	0.01	not set	2039	–	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	0.02	2039	0	0
cyprodinil	whole	0.01	not set	2039	-	0
difenoconazole	whole	0.01	0.01	2039	0	1
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	2039	-	0
dithianon	whole	0.01	not set	2039	-	0
dodine	whole	0.01	not set	2039	-	0
epoxiconazole	whole	0.01	0.05	2039	0	0
etridiazole	whole	0.01	not set	2039	-	0
fenarimol	whole	0.01	not set	2039	-	0
fenbuconazole	whole	0.01	0.01	2039	0	0
fenhexamid	whole	0.01	not set	2039	-	0
fluazinam	whole	0.01	not set	2039	-	0
fludioxonil	whole	0.01	not set	2039	-	0
fluquinconazole	whole	0.01	0.02	2039	0	0
flusilazole	whole	0.01	not set	2039	-	0
flutriafol	whole	0.01	0.1	2039	0	0
fluxapyroxad	whole	0.01	0.1	2039	0	0
hexaconazole	whole	0.01	not set	2039	-	0
imazalil	whole	0.01	not set	2039	-	0
ipconazole	whole	0.01	0.01	2039	0	0
iprodione	whole	0.01	not set	2039	-	0
isoprothiolane	whole	0.01	not set	2039	-	0
kresoxim-methyl	whole	0.01	not set	2039	-	0
metalaxyl	whole	0.01	0.01	2039	0	2
myclobutanil	whole	0.01	not set	2039	-	0
oxadixyl	whole	0.01	not set	2039	-	0
penconazole	whole	0.01	not set	2039	-	0
penflufen	whole	0.01	0.01	2039	0	0
prochloraz	whole	0.01	not set	2039	-	0
procymidone	whole	0.01	not set	2039	-	0
propiconazole	whole	0.01	0.05	2039	0	0
prothioconazole	whole	0.01	0.3	2039	0	0
pyraclostrobin	whole	0.01	0.01	2039	0	0
pyrimethanil	whole	0.01	not set	2039	-	0
quinoxifen	whole	0.01	not set	2039	-	0
sedaxane	whole	0.01	0.01	2039	0	1
spiroxamine	whole	0.01	not set	2039	-	0
tebuconazole	whole	0.01	0.2	2039	0	0
thiabendazole	whole	0.01	not set	2039	-	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tolclofos methyl	whole	0.01	not set	2039	–	0
triadimefon	whole	0.01	0.5	2039	0	0
triadimenol	whole	0.01	0.01	2039	0	0
trifloxystrobin	whole	0.01	not set	2039	–	0
triticonazole	whole	0.01	0.05	2039	0	0
vinclozolin	whole	0.01	not set	2039	–	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	2039	0	0
2,4-D	whole	0.01	0.2	2039	0	0
2,4-DB	whole	0.01	0.02	2039	0	0
aminopyralid	whole	0.01	0.1	2039	0	0
amitrole	whole	0.01	0.01	280	0	0
atrazine	whole	0.01	not set	2039	–	0
bentazone	whole	0.01	not set	2039	–	0
bromacil	whole	0.01	not set	2039	–	0
bromoxynil	whole	0.01	0.2	2039	0	0
butoxydim	whole	0.01	not set	2039	–	0
carfentrazone-ethyl	whole	0.01	0.05	2039	0	0
chlormequat	whole	0.01	5	278	0	0
chlorpropham	whole	0.01	not set	2039	–	0
chlorsulfuron	whole	0.01	0.05	2039	0	0
chlorthal-dimethyl	whole	0.01	not set	2039	–	0
clethodim (parent only)	whole	0.01	0.1	2039	0	0
clodinafop-propargyl	whole	0.01	0.05	2039	0	0
clopyralid	whole	0.01	2	2039	0	0
cyanazine	whole	0.01	0.01	2039	0	0
dicamba	whole	0.01	0.05	2039	0	0
dichlobenil	whole	0.01	not set	2039	–	0
dichlorprop-P	whole	0.02	not set	280	–	0
diclofop-methyl	whole	0.01	0.1	280	0	0
diflufenican	whole	0.01	0.02	2039	0	0
diquat	whole	0.01	2	280	0	0
diuron	whole	0.01	0.1	2039	0	0
ethofumesate	whole	0.01	not set	2039	–	0
fenoxaprop-ethyl	whole	0.01	0.01	2039	0	0
flamprop-M-methyl	whole	0.01	0.05	280	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fluazifop-p-butyl	whole	0.01	not set	280	–	0
flumetsulam	whole	0.01	0.05	2039	0	0
flumioxazin	whole	0.01	0.05	2039	0	0
fluroxypyr	whole	0.01	0.2	2039	0	0
glufosinate	whole	0.01	not set	280	–	0
glyphosate	whole	0.01	5	280	0	0
haloxyfop	whole	0.01	not set	280	–	0
imazamox	whole	0.01	0.05	2007	0	0
imazapic	whole	0.01	0.05	2007	0	0
imazapyr	whole	0.01	0.05	2007	0	0
imazaquin	whole	0.01	not set	2007	–	0
imazethapyr	whole	0.01	not set	2007	–	0
iodosulfuron-methyl	whole	0.01	0.01	2039	0	0
ioxynil	whole	0.01	not set	2039	–	0
isoxaben	whole	0.01	0.01	2039	0	0
linuron	whole	0.01	0.05	2039	0	0
MCPA	whole	0.01	0.02	2039	0	0
methabenzthiazuron	whole	0.01	not set	2039	–	0
metolachlor	whole	0.01	0.02	2039	0	0
metosulam	whole	0.01	0.02	2039	0	0
metribuzin	whole	0.01	0.05	2039	0	0
metsulfuron-methyl	whole	0.01	0.02	2039	0	0
napropamide	whole	0.01	not set	2039	–	0
norflurazon	whole	0.01	not set	2039	–	0
oryzalin	whole	0.01	0.01	2039	0	0
oxyfluorfen	whole	0.01	0.05	2039	0	0
paraquat	whole	0.01	0.05	280	0	0
pendimethalin	whole	0.01	0.05	2039	0	0
picloram	whole	0.01	0.2	2039	0	0
propachlor	whole	0.01	0.05	2039	0	0
propaquizafop	whole	0.02	not set	280	–	0
propyzamide	whole	0.01	not set	2039	–	0
quizalofop-ethyl	whole	0.01	not set	280	–	0
quizalofop-P-tefuryl	whole	0.01	not set	280	–	0
saflufenacil	whole	0.01	0.2	2039	0	0
sethoxydim	whole	0.01	0.1	2039	0	0
simazine	whole	0.01	not set	2039	–	0
terbutryn	whole	0.01	0.1	2039	0	0
tralkoxydim	whole	0.01	0.02	2039	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triallate	whole	0.01	0.05	2039	0	0
triasulfuron	whole	0.01	0.02	2039	0	0
triclopyr	whole	0.01	not set	2039	–	0
trifluralin	whole	0.01	0.05	2039	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	2039	–	0
acephate	whole	0.01	not set	2039	–	0
acetamiprid	whole	0.01	not set	2039	–	0
aldicarb	whole	0.01	not set	2039	–	0
amitraz	whole	0.01	not set	2039	–	0
azamethiphos	whole	0.01	0.1	2039	0	0
azinphos-methyl	whole	0.01	not set	2039	–	0
bifenazate	whole	0.01	not set	2039	–	0
bifenthrin	whole	0.01	0.02	2039	0	0
bioresmethrin	whole	0.01	not set	2039	–	0
buprofezin	whole	0.01	not set	2039	–	0
cadusafos	whole	0.01	not set	2039	–	0
carbaryl	whole	0.01	5	2039	0	0
carbofuran	whole	0.01	0.2	2039	0	0
chlorantraniliprole	whole	0.01	0.1	2039	0	0
chlorfenapyr	whole	0.01	not set	2039	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	2039	0	0
chlorpyrifos	whole	0.01	0.1	2039	0	0
chlorpyrifos-methyl	whole	0.01	10	2039	5	0
clofentezine	whole	0.01	not set	2039	–	0
clothianidin	whole	0.01	0.02	2039	0	0
cyfluthrin (sum of isomers)	whole	0.01	2	2039	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	2039	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	2039	0	0
deltamethrin	whole	0.01	2	2039	1	0
diafenthiuron	whole	0.01	not set	2039	–	0
diazinon	whole	0.01	0.1	2039	0	0
dichlorvos	whole	0.01	0.01	2039	0	2
dicofol	whole	0.01	not set	2039	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diflubenzuron	whole	0.01	not set	2039	–	0
dimethoate	whole	0.01	0.05	2039	0	0
disulfoton	whole	0.01	not set	2039	–	0
emamectin	whole	0.01	0.01	2039	0	0
esfenvalerate	whole	0.01	2	2039	0	0
ethion	whole	0.01	not set	2039	–	0
ethoprophos	whole	0.005	0.005	2039	0	0
etoxazole	whole	0.01	not set	2039	–	0
fenamiphos	whole	0.01	not set	2039	–	0
fenbutatin oxide	whole	0.01	not set	2039	–	0
fenitrothion	whole	0.01	10	2039	0	0
fenoxycarb	whole	0.01	not set	2039	–	0
fenpyroximate	whole	0.01	not set	2039	–	0
fenthion	whole	0.01	not set	2039	–	0
fenvalerate (sum of isomers)	whole	0.01	2	2039	0	0
fipronil	whole	0.002	not set	2039	–	0
hexythiazox	whole	0.01	not set	2039	–	0
imidacloprid	whole	0.01	0.05	2039	1	2
indoxacarb	whole	0.01	not set	2039	–	0
malathion (maldison)	whole	0.01	8	2039	0	0
methacrifos	whole	0.01	not set	2039	–	0
methamidophos	whole	0.01	not set	2039	–	0
methidathion	whole	0.01	0.01	2039	0	0
methiocarb	whole	0.01	not set	2039	–	0
methomyl	whole	0.01	0.1	2039	0	0
methoprene	whole	0.01	2	2039	1	0
methoxychlor	whole	0.01	not set	2039	–	0
methoxyfenozide	whole	0.01	not set	2039	–	0
mevinphos	whole	0.01	not set	2039	–	0
monocrotophos	whole	0.01	not set	2039	–	0
omethoate	whole	0.01	0.05	2039	0	0
parathion	whole	0.01	not set	2039	–	0
parathion-methyl	whole	0.01	not set	2039	–	0
permethrin (sum of isomers)	whole	0.01	2	2039	0	0
phenothrin (sum of isomers)	whole	0.01	2	2039	0	0
phorate	whole	0.01	not set	2039	–	0
phosmet	whole	0.01	0.05	2039	0	0
piperonyl butoxide	whole	0.01	20	2039	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
pirimicarb	whole	0.01	0.02	2039	0	0
pirimiphos-methyl	whole	0.01	10	2039	0	0
profenofos	whole	0.01	not set	2039	–	0
propargite	whole	0.01	not set	2039	–	0
prothiofos	whole	0.01	not set	2039	–	0
pymetrozine	whole	0.01	not set	2039	–	0
pyrethrins	whole	0.01	3	2039	0	0
pyriproxyfen	whole	0.01	not set	2039	–	0
spinetoram	whole	0.01	not set	2039	–	0
spinosad	whole	0.01	1	2039	0	0
spirotetramat	whole	0.01	not set	2039	–	0
sulfoxaflor	whole	0.01	0.01	2039	0	0
tau-fluvalinate	whole	0.01	not set	2039	–	0
tebufenozide	whole	0.01	not set	2039	–	0
tebufenpyrad	whole	0.01	not set	2039	–	0
terbufos	whole	0.01	0.01	2039	0	0
tetradifon	whole	0.01	not set	2039	–	0
thiacloprid	whole	0.01	not set	2039	–	0
thiamethoxam	whole	0.01	0.01	2039	0	0
thiodicarb	whole	0.01	not set	2039	–	0
triazofos	whole	0.01	not set	2039	–	0
trichlorfon	whole	0.01	0.1	2039	0	0
triflumuron	whole	0.01	0.05	2039	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	2039	0	0
chlordane	whole	0.01	0.02	2039	0	0
DDT	whole	0.01	0.1	2039	0	0
endosulfan	whole	0.01	not set	2039	–	0
endrin	whole	0.01	not set	2039	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	2039	0	0
HCH (BHC)	whole	0.01	0.1	2039	0	0
heptachlor	whole	0.01	0.02	2039	0	0
lindane (gamma-HCH)	whole	0.01	0.5	2039	0	0
mirex	whole	0.01	not set	2039	–	0