



Wheat 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	0.1	2597	0	0
benalaxyl	whole	0.01	not set	2597	–	0
bitertanol	whole	0.01	not set	2597	–	0
bixafen	whole	0.01	0.01	2597	0	0
boscalid	whole	0.01	0.5	2597	0	0
bupirimate	whole	0.01	not set	2597	–	0
captafol	whole	0.02	not set	2597	–	0
captan	whole	0.01	not set	2597	–	0
carbendazim	whole	0.01	not set	2597	–	0
carboxin	whole	0.01	0.1	2597	0	0
chlorothalonil	whole	0.01	not set	2597	–	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	2597	0	0
cyprodinil	whole	0.01	not set	2597	-	0
difenoconazole	whole	0.01	0.01	2597	0	1
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	2597	-	0
dithianon	whole	0.01	not set	2597	-	0
dodine	whole	0.01	not set	2597	-	0
epoxiconazole	whole	0.01	0.05	2597	0	0
etridiazole	whole	0.01	not set	2597	-	0
fenarimol	whole	0.01	not set	2597	-	0
fenbuconazole	whole	0.01	0.01	2597	0	0
fenhexamid	whole	0.01	not set	2597	-	0
fluazinam	whole	0.01	not set	2597	-	0
fludioxonil	whole	0.01	not set	2597	-	0
fluquinconazole	whole	0.01	0.02	2597	0	0
flusilazole	whole	0.01	not set	2597	-	0
flutriafol	whole	0.01	0.1	2597	1	0
fluxapyroxad	whole	0.01	0.1	2597	0	0
hexaconazole	whole	0.01	not set	2597	-	0
imazalil	whole	0.01	not set	2597	-	0
ipconazole	whole	0.01	0.01	2597	0	0
iprodione	whole	0.01	not set	2597	-	0
isoprothiolane	whole	0.01	not set	2597	-	0
kresoxim-methyl	whole	0.01	not set	2597	-	0
metalaxyl	whole	0.01	0.01	2597	0	0
myclobutanil	whole	0.01	not set	2597	-	0
oxadixyl	whole	0.01	not set	2597	-	0
penconazole	whole	0.01	not set	2597	-	0
penflufen	whole	0.01	0.01	2597	0	0
prochloraz	whole	0.01	not set	2597	-	0
procymidone	whole	0.01	not set	2597	-	0
propiconazole	whole	0.01	0.05	2597	0	0
prothioconazole	whole	0.01	0.3	2597	0	0
pyraclostrobin	whole	0.01	0.01	2597	0	0
pyrimethanil	whole	0.01	not set	2597	-	0
quinoxifen	whole	0.01	not set	2597	-	0
sedaxane	whole	0.01	0.01	2597	0	0
spiroxamine	whole	0.01	not set	2597	-	0
tebuconazole	whole	0.01	0.2	2597	0	0
thiabendazole	whole	0.01	not set	2597	-	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	2597	–	0
triadimefon	whole	0.01	0.5	2597	0	0
triadimenol	whole	0.01	0.01	2597	0	0
trifloxystrobin	whole	0.01	not set	2597	–	0
triticonazole	whole	0.01	0.05	2597	0	0
vinclozolin	whole	0.01	not set	2597	–	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	2597	0	0
2,4-D	whole	0.01	0.2	2597	0	0
2,4-DB	whole	0.01	0.02	2597	0	0
acifluorfen	whole	0.01	not set	1801	–	0
ametryn	whole	0.01	not set	1801	–	0
aminopyralid	whole	0.01	0.1	2597	0	0
amitrole	whole	0.01	0.01	447	0	0
atrazine	whole	0.01	not set	2597	–	0
bentazone	whole	0.01	not set	2597	–	0
bicyclopyrone	whole	0.01	0.02	1801	0	0
bromacil	whole	0.01	not set	2597	–	0
bromoxynil	whole	0.01	0.2	2597	0	0
butoxydim	whole	0.01	not set	2597	–	0
carfentrazone-ethyl	whole	0.01	0.05	2597	0	0
chlormequat	whole	0.01	5	447	0	0
chlorpropham	whole	0.01	not set	2597	–	0
chlorsulfuron	whole	0.01	0.05	2597	0	0
chlorthal-dimethyl	whole	0.01	not set	2597	–	0
clethodim (parent only)	whole	0.01	0.1	2597	0	0
clodinafop acid	whole	0.01	0.1	1801	0	0
clodinafop-propargyl	whole	0.01	0.05	2597	0	0
clomazone	whole	0.01	not set	1801	–	0
clopyralid	whole	0.01	2	2597	0	0
cloquintocet-mexyl	whole	0.01	0.1	1801	0	0
cyanazine	whole	0.01	0.01	2597	0	0
dicamba	whole	0.01	0.05	2597	0	0
dichlobenil	whole	0.01	not set	2597	–	0
dichlorprop	whole	0.01	not set	447	–	0
diclofop-methyl	whole	0.01	0.1	447	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diflufenican	whole	0.01	0.02	2597	0	0
dimethenamid	whole	0.01	not set	1801	-	0
diquat	whole	0.01	2	447	0	0
diuron	whole	0.01	0.1	2597	0	0
EPTC	whole	0.01	0.04	1754	0	0
EPTC (ethylpropylthiocarbamate)	whole	0.01	not set	47	-	0
ethofumesate	whole	0.01	not set	2597	-	0
fenoxaprop-ethyl	whole	0.01	0.01	2597	0	0
flamprop-M-methyl	whole	0.01	0.05	447	0	0
florasulam	whole	0.01	0.01	1801	0	0
fluazifop-p-butyl	whole	0.01	not set	447	-	0
flumetsulam	whole	0.01	0.05	2597	0	0
flumioxazin	whole	0.01	0.05	2597	0	0
fluroxypyr	whole	0.01	0.2	2597	0	0
glufosinate	whole	0.01	not set	447	-	0
glyphosate	whole	0.01	5	447	0	0
halauxifen-methyl	whole	0.01	0.01	1801	0	0
halosulfuron-methyl	whole	0.01	not set	1801	-	0
haloxyfop	whole	0.01	not set	447	-	0
imazamox	whole	0.01	0.05	1055	0	0
imazapic	whole	0.01	0.05	1055	0	0
imazapyr	whole	0.01	0.05	1055	14	0
imazaquin	whole	0.01	not set	1055	-	0
imazethapyr	whole	0.01	not set	1055	-	0
iodosulfuron-methyl	whole	0.01	0.01	2597	0	0
ioxynil	whole	0.01	not set	2597	-	0
isoxaben	whole	0.01	0.01	2597	0	0
isoxaflutole	whole	0.01	0.02	1801	0	0
linuron	whole	0.01	0.05	2597	0	0
MCPA	whole	0.01	0.02	2597	0	0
MCPB	whole	0.01	0.02	1801	0	0
mefenpyr-diethyl	whole	0.01	0.01	1801	0	0
metazachlor	whole	0.01	0.03	1801	0	0
methabenzthiazuron	whole	0.01	not set	2597	-	0
metolachlor	whole	0.01	0.02	2597	0	0
metosulam	whole	0.01	0.02	2597	0	0
metribuzin	whole	0.01	0.05	2597	0	0
metsulfuron-methyl	whole	0.01	0.02	2597	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
napropamide	whole	0.01	not set	2597	–	0
norflurazon	whole	0.01	not set	2597	–	0
oryzalin	whole	0.01	0.01	2597	0	0
oxyfluorfen	whole	0.01	0.05	2597	0	0
paraquat	whole	0.01	0.05	447	0	0
pendimethalin	whole	0.01	0.05	2597	0	0
picloram	whole	0.01	0.2	2597	0	0
picolinafen	whole	0.01	0.02	1801	0	0
pinoxaden (parent)	whole	0.01	0.1	1801	0	0
prometryn	whole	0.01	0.1	1801	0	0
propachlor	whole	0.01	0.05	2597	0	0
propaquizafop	whole	0.01	not set	447	–	0
propyzamide	whole	0.01	not set	2597	–	0
prosulcarb	whole	0.01	0.01	1801	0	0
pyraflufen-ethyl	whole	0.01	0.02	1801	0	0
pyrasulfotole	whole	0.01	0.02	1801	0	0
pyroxasulfone	whole	0.01	0.01	1801	0	0
pyroxulam	whole	0.01	0.01	1801	0	0
quizalofop-ethyl	whole	0.01	not set	447	–	0
saflufenacil	whole	0.01	0.2	2597	0	0
sethoxydim	whole	0.01	0.1	2597	0	0
simazine	whole	0.01	not set	2597	–	0
sulfosulfuron	whole	0.01	0.01	1801	0	0
terbuthylazine	whole	0.01	0.01	1801	0	0
terbutryn	whole	0.01	0.1	2597	0	0
tralkoxydim	whole	0.01	0.02	2597	0	0
triallate	whole	0.01	0.05	2597	0	0
triasulfuron	whole	0.01	0.02	2597	0	0
tribenuron-methyl	whole	0.01	0.01	1801	0	0
triclopyr	whole	0.01	not set	2597	–	0
trifluralin	whole	0.01	0.05	2597	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	2597	–	0
acephate	whole	0.01	not set	2597	–	0
acetamiprid	whole	0.01	not set	2597	–	0
aldicarb	whole	0.01	not set	2597	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
amitraz	whole	0.01	not set	2597	–	0
azamethiphos	whole	0.01	0.1	2597	0	0
azinphos-methyl	whole	0.01	not set	2597	–	0
bifenazate	whole	0.01	not set	2597	–	0
bifenthrin	whole	0.01	0.02	2597	0	0
bioresmethrin	whole	0.01	not set	2597	–	0
buprofezin	whole	0.01	0.01	2597	0	0
cadusafos	whole	0.01	not set	2597	–	0
carbaryl	whole	0.01	5	2597	0	0
carbofuran	whole	0.01	not set	2597	–	0
chlorantraniliprole	whole	0.01	0.1	2597	0	0
chlorfenapyr	whole	0.01	not set	2597	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	2597	0	0
chlorpyrifos	whole	0.01	0.1	2597	1	2
chlorpyrifos-methyl	whole	0.01	10	2597	1	0
clofentezine	whole	0.01	not set	2597	–	0
clothianidin	whole	0.01	0.02	2597	0	0
cyantraniliprole	whole	0.01	0.05	1801	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	2597	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	2597	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	2597	0	0
deltamethrin	whole	0.01	2	2597	0	0
diafenthiuron	whole	0.01	not set	2597	–	0
diazinon	whole	0.01	0.1	2597	0	0
dichlorvos	whole	0.01	0.01	2597	0	0
dicofol	whole	0.01	not set	2597	–	0
diflubenzuron	whole	0.01	not set	2597	–	0
dimethoate	whole	0.01	0.5	2597	0	0
disulfoton	whole	0.01	not set	2597	–	0
emamectin	whole	0.01	0.01	2597	0	0
esfenvalerate	whole	0.01	2	1593	0	0
ethion	whole	0.01	not set	2597	–	0
ethoprophos	whole	0.005	0.005	2597	0	0
etoxazole	whole	0.01	not set	2597	–	0
fenamiphos	whole	0.01	not set	2597	–	0
fenbutatin oxide	whole	0.01	not set	2597	–	0
fenitrothion	whole	0.01	10	2597	1	0
fenoxycarb	whole	0.01	not set	2597	–	0

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fenpyroximate	whole	0.01	not set	2597	–	0
fenthion	whole	0.01	not set	2597	–	0
fenvalerate (sum of isomers)	whole	0.01	2	2597	0	0
fipronil	whole	0.002	not set	2597	–	0
flonicamid	whole	0.01	not set	1801	–	0
hexythiazox	whole	0.01	not set	2597	–	0
imidacloprid	whole	0.01	0.05	2597	1	1
indoxacarb	whole	0.01	not set	2597	–	0
malathion (maldison)	whole	0.01	8	2597	0	0
methacrifos	whole	0.01	not set	2597	–	0
methamidophos	whole	0.01	not set	2597	–	0
methidathion	whole	0.01	not set	2597	–	0
methiocarb	whole	0.01	not set	2597	–	0
methomyl	whole	0.01	0.1	2597	0	0
methoprene	whole	0.01	2	2597	0	0
methoxychlor	whole	0.01	not set	2597	–	0
methoxyfenozide	whole	0.01	not set	2597	–	0
mevinphos	whole	0.01	not set	2597	–	0
monocrotophos	whole	0.01	not set	2597	–	0
omethoate	whole	0.01	0.05	2597	0	0
parathion	whole	0.01	not set	2597	–	0
parathion-methyl	whole	0.01	not set	2597	–	0
permethrin (sum of isomers)	whole	0.01	2	2597	0	0
phenothrin (sum of isomers)	whole	0.01	2	2597	0	0
phorate	whole	0.01	not set	2597	–	0
phosmet	whole	0.01	0.05	2597	0	0
piperonyl butoxide	whole	0.01	20	2597	0	0
pirimicarb	whole	0.01	0.02	2597	0	0
pirimiphos-methyl	whole	0.01	10	2597	0	0
profenofos	whole	0.01	not set	2597	–	0
propargite	whole	0.01	not set	2597	–	0
prothiofos	whole	0.01	not set	2597	–	0
pymetrozine	whole	0.01	not set	2597	–	0
pyrethrins	whole	0.01	3	2597	0	0
pyriproxyfen	whole	0.01	not set	2597	–	0
spinetoram	whole	0.01	not set	2597	–	0
spinosad	whole	0.01	1	2597	1	0
spirotetramat	whole	0.01	not set	2597	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
sulfoxaflor	whole	0.01	0.01	2597	0	0
tau-fluvalinate	whole	0.01	not set	2597	-	0
tebufenozide	whole	0.01	not set	2597	-	0
tebufenpyrad	whole	0.01	not set	2597	-	0
terbufos	whole	0.01	0.01	2597	0	0
tetradifon	whole	0.01	not set	2597	-	0
thiacloprid	whole	0.01	not set	2597	-	0
thiamethoxam	whole	0.01	0.01	2597	0	0
thiodicarb	whole	0.01	not set	2597	-	0
triazofos	whole	0.01	not set	2597	-	0
trichlorfon	whole	0.01	0.1	2597	0	0
triflumuron	whole	0.01	0.05	2597	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	2597	0	0
chlordane	whole	0.01	0.02	2597	0	0
DDT	whole	0.01	0.1	2597	0	0
endosulfan	whole	0.01	not set	2597	-	0
endrin	whole	0.01	not set	2597	-	0
HCB (hexachlorobenzene)	whole	0.01	0.05	2597	0	0
HCH (BHC)	whole	0.01	0.1	2597	0	0
heptachlor	whole	0.01	0.02	2597	0	0
lindane (gamma-HCH)	whole	0.01	0.5	2597	0	0
mirex	whole	0.01	not set	2597	-	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	0.2	1801	0	0