



Wheat (bran) 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	0.02	118	0	0
benalaxyl	Whole	0.01	Not Set	118	–	0
bitertanol	Whole	0.01	Not Set	118	–	0
bixafen	Whole	0.01	0.01	118	0	0
boscalid	Whole	0.01	0.5	118	0	0
bupirimate	Whole	0.01	Not Set	118	–	0
captafol	Whole	0.02	Not Set	118	–	0
captan	Whole	0.01	Not Set	118	–	0
carbendazim	Whole	0.01	Not Set	118	–	0
carboxin	Whole	0.01	0.1	118	0	0

Wheat (bran) residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorothalonil	Whole	0.01	Not Set	118	–	0
cyproconazole	Whole	0.01	0.02	118	0	0
cyprodinil	Whole	0.01	Not Set	118	–	0
difenoconazole	Whole	0.01	0.01	118	0	0
dimethomorph (sum of E and Z isomers)	Whole	0.01	Not Set	118	–	0
dithianon	Whole	0.01	Not Set	118	–	0
dodine	Whole	0.01	Not Set	118	–	0
epoxiconazole	Whole	0.01	0.3	118	0	0
etridiazole	Whole	0.01	Not Set	118	–	0
fenarimol	Whole	0.01	Not Set	118	–	0
fenbuconazole	Whole	0.01	Not Set	118	–	0
fenhexamid	Whole	0.01	Not Set	118	–	0
fluazinam	Whole	0.01	Not Set	118	–	0
fludioxonil	Whole	0.01	Not Set	118	–	0
fluquinconazole	Whole	0.01	0.02	118	0	0
flusilazole	Whole	0.01	Not Set	118	–	0
flutriafol	Whole	0.01	0.1	118	0	0
fluxapyroxad	Whole	0.01	0.1	118	0	0
hexaconazole	Whole	0.01	Not Set	118	–	0
imazalil	Whole	0.01	Not Set	118	–	0
ipconazole	Whole	0.01	0.01	118	0	0
iprodione	Whole	0.01	Not Set	118	–	0
isoprothiolane	Whole	0.01	Not Set	118	–	0
kresoxim-methyl	Whole	0.01	Not Set	118	–	0
metalaxyl	Whole	0.01	0.01	118	0	0
myclobutanil	Whole	0.01	Not Set	118	–	0
oxadixyl	Whole	0.01	Not Set	118	–	0
penconazole	Whole	0.01	Not Set	118	–	0
penflufen	Whole	0.01	0.01	118	0	0
prochloraz	Whole	0.01	Not Set	118	–	0
procymidone	Whole	0.01	Not Set	118	–	0
propiconazole	Whole	0.01	0.05	118	0	0
prothioconazole	Whole	0.01	0.5	118	0	0
pyraclostrobin	Whole	0.01	0.01	118	0	0
pyrimethanil	Whole	0.01	Not Set	118	–	0
quinoxifen	Whole	0.01	Not Set	118	–	0
sedaxane	Whole	0.01	0.01	118	0	0
spiroxamine	Whole	0.01	Not Set	118	–	0
tebuconazole	Whole	0.01	0.2	118	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	118	–	0
tolclofos methyl	Whole	0.01	Not Set	118	–	0
triadimefon	Whole	0.01	0.5	118	0	0
triadimenol	Whole	0.01	0.01	118	0	0
trifloxystrobin	Whole	0.01	Not Set	118	–	0
triticonazole	Whole	0.01	0.05	118	0	0
vinclozolin	Whole	0.01	Not Set	118	–	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	118	0	0
2,4-D	Whole	0.01	0.2	118	0	0
2,4-DB	Whole	0.01	0.02	118	0	0
acifluorfen	Whole	0.01	Not Set	64	–	0
ametryn	Whole	0.01	Not Set	64	–	0
aminopyralid	Whole	0.01	0.3	118	0	0
amitrole	Whole	0.01	0.01	26	0	0
atrazine	Whole	0.01	Not Set	118	–	0
bentazone	Whole	0.01	Not Set	118	–	0
bicyclopyrone	Whole	0.01	0.05	64	0	0
bromacil	Whole	0.01	Not Set	118	–	0
bromoxynil	Whole	0.01	0.2	118	0	0
butroxydim	Whole	0.01	Not Set	118	–	0
carfentrazone-ethyl	Whole	0.01	0.05	118	0	0
chlormequat	Whole	0.01	5	26	0	0
chlorpropham	Whole	0.01	Not Set	118	–	0
chlorsulfuron	Whole	0.01	0.05	118	0	0
chlorthal-dimethyl	Whole	0.01	Not Set	118	–	0
clethodim (parent only)	Whole	0.01	0.1	118	0	0
clodinafop acid	Whole	0.01	0.1	64	0	0
clodinafop-propargyl	Whole	0.01	0.05	118	0	0
clomazone	Whole	0.01	Not Set	64	–	0
clopyralid	Whole	0.01	2	118	0	0
cloquintocet-mexyl	Whole	0.01	0.1	64	0	0
cyanazine	Whole	0.01	0.01	118	0	0
dicamba	Whole	0.01	0.05	118	0	0
dichlobenil	Whole	0.01	Not Set	118	–	0
dichlorprop	Whole	0.01	Not Set	26	–	0

Wheat (bran) residue testing annual datasets 2020–21

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	26	0	0
diflufenican	Whole	0.01	0.02	118	0	0
dimethenamid	Whole	0.01	Not Set	64	–	0
diquat	Whole	0.01	2	26	0	0
diuron	Whole	0.01	0.1	118	0	0
EPTC	Whole	0.01	0.04	64	0	0
ethofumesate	Whole	0.01	Not Set	118	–	0
fenoxaprop-ethyl	Whole	0.01	0.01	118	0	0
flamprop-M-methyl	Whole	0.01	0.05	26	0	0
florasulam	Whole	0.01	0.01	64	0	0
fluazifop-p-butyl	Whole	0.01	Not Set	26	–	0
flumetsulam	Whole	0.01	0.05	118	0	0
flumioxazin	Whole	0.01	0.05	118	0	0
fluroxypyr	Whole	0.01	0.2	118	0	0
glufosinate	Whole	0.01	Not Set	26	–	0
glyphosate	Whole	0.01	20	26	0	0
halauxifen-methyl	Whole	0.01	0.01	64	0	0
halosulfuron-methyl	Whole	0.01	Not Set	64	–	0
haloxyfop	Whole	0.01	Not Set	26	–	0
iodosulfuron-methyl	Whole	0.01	0.01	118	0	0
ioxynil	Whole	0.01	Not Set	118	–	0
isoxaben	Whole	0.01	0.01	118	0	0
isoxaflutole	Whole	0.01	0.02	64	0	0
linuron	Whole	0.01	0.05	118	0	0
MCPA	Whole	0.01	0.02	118	0	0
MCPB	Whole	0.01	0.02	64	0	0
mefenpyr-diethyl	Whole	0.01	0.01	64	0	0
metazachlor	Whole	0.01	0.03	64	0	0
methabenzthiazuron	Whole	0.01	Not Set	118	–	0
metolachlor	Whole	0.01	0.02	118	0	0
metosulam	Whole	0.01	0.02	118	0	0
metribuzin	Whole	0.01	0.05	118	0	0
metsulfuron-methyl	Whole	0.01	0.02	118	0	0
napropamide	Whole	0.01	Not Set	118	–	0
norflurazon	Whole	0.01	Not Set	118	–	0
oryzalin	Whole	0.01	0.01	118	0	0
oxyfluorfen	Whole	0.01	0.05	118	0	0
paraquat	Whole	0.01	0.05	26	0	0
pendimethalin	Whole	0.01	0.05	118	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
picloram	Whole	0.01	0.2	118	0	0
picolinafen	Whole	0.01	0.02	64	0	0
pinoxaden (parent)	Whole	0.01	0.5	64	0	0
prometryn	Whole	0.01	0.1	64	0	0
propachlor	Whole	0.01	0.05	118	0	0
propaquizafop	Whole	0.01	Not Set	26	–	0
propyzamide	Whole	0.01	Not Set	118	–	0
prosulfocarb	Whole	0.01	0.01	64	0	0
pyraflufen-ethyl	Whole	0.01	0.02	64	0	0
pyrasulfotole	Whole	0.01	0.03	64	0	0
pyroxasulfone	Whole	0.01	0.01	64	0	0
pyroxsulam	Whole	0.01	0.01	64	0	0
quizalofop-ethyl	Whole	0.01	Not Set	26	–	0
quizalofop-P-tefuryl	Whole	0.01	Not Set	26	–	0
saflufenacil	Whole	0.01	0.5	118	0	0
sethoxydim	Whole	0.01	0.1	118	0	0
simazine	Whole	0.01	Not Set	118	–	0
sulfosulfuron	Whole	0.01	0.01	64	0	0
terbuthylazine	Whole	0.01	0.01	64	0	0
terbutryn	Whole	0.01	0.1	118	0	0
tralkoxydim	Whole	0.01	0.02	118	0	0
triallate	Whole	0.01	0.05	118	0	0
triasulfuron	Whole	0.01	0.02	118	0	0
tribenuron-methyl	Whole	0.01	0.01	64	0	0
triclopyr	Whole	0.01	Not Set	118	–	0
trifluralin	Whole	0.01	0.05	118	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	118	–	0
acetamiprid	Whole	0.01	Not Set	118	–	0
aldicarb	Whole	0.01	Not Set	118	–	0
amitraz	Whole	0.01	Not Set	118	–	0
azamethiphos	Whole	0.01	0.5	118	0	0
azinphos-methyl	Whole	0.01	Not Set	118	–	0
bifenazate	Whole	0.01	Not Set	118	–	0
bifenthrin	Whole	0.01	0.02	118	0	0
bioresmethrin	Whole	0.01	Not Set	118	–	0

Wheat (bran) residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
buprofezin	Whole	0.01	0.01	118	0	0
cadusafos	Whole	0.01	Not Set	118	–	0
carbaryl	Whole	0.01	10	118	0	0
carbofuran	Whole	0.01	Not Set	118	–	0
chlorantraniliprole	Whole	0.01	0.1	118	0	0
chlorfenapyr	Whole	0.01	Not Set	118	–	0
chlorfenvinphos (sum of isomers)	Whole	0.01	0.05	118	0	0
chlorpyrifos	Whole	0.01	0.1	118	0	0
chlorpyrifos-methyl	Whole	0.01	20	118	0	0
clofentezine	Whole	0.01	Not Set	118	–	0
clothianidin	Whole	0.01	0.02	118	0	0
cyantraniliprole	Whole	0.01	0.05	64	0	0
cyfluthrin (sum of isomers)	Whole	0.01	Not Set	118	–	0
cyhalothrin (sum of isomers)	Whole	0.01	0.05	118	0	0
cypermethrin (sum of isomers)	Whole	0.01	0.2	118	0	0
deltamethrin	Whole	0.01	5	118	1	0
diafenthiuron	Whole	0.01	Not Set	118	–	0
diazinon	Whole	0.01	0.1	118	0	0
dichlorvos	Whole	0.01	0.01	118	0	0
dicofol	Whole	0.01	Not Set	118	–	0
diflubenzuron	Whole	0.01	Not Set	118	–	0
dimethoate	Whole	0.01	1	118	0	0
disulfoton	Whole	0.01	Not Set	118	–	0
esfenvalerate	Whole	0.01	5	82	0	0
ethion	Whole	0.01	Not Set	118	–	0
ethoprophos	Whole	0.005	0.005	118	0	0
etoxazole	Whole	0.01	Not Set	118	–	0
fenamiphos	Whole	0.01	Not Set	118	–	0
fenbutatin oxide	Whole	0.01	Not Set	118	–	0
fenitrothion	Whole	0.01	20	118	0	0
fenoxycarb	Whole	0.01	Not Set	118	–	0
fenpyroximate	Whole	0.01	Not Set	118	–	0
fenthion	Whole	0.01	Not Set	118	–	0
fenvalerate (sum of isomers)	Whole	0.01	5	118	0	0
fipronil	Whole	0.002	Not Set	118	–	0
flonicamid	Whole	0.01	Not Set	64	–	0
hexythiazox	Whole	0.01	Not Set	118	–	0

Wheat (bran) residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
imidacloprid	Whole	0.01	0.05	118	0	0
indoxacarb	Whole	0.01	Not Set	118	–	0
malathion (maldison)	Whole	0.01	20	118	0	0
methacrifos	Whole	0.01	Not Set	118	–	0
methamidophos	Whole	0.01	Not Set	118	–	0
methidathion	Whole	0.01	Not Set	118	–	0
methiocarb	Whole	0.01	Not Set	118	–	0
methomyl	Whole	0.01	0.1	118	0	0
methoprene	Whole	0.01	5	118	0	0
methoxychlor	Whole	0.01	Not Set	118	–	0
methoxyfenozide	Whole	0.01	Not Set	118	–	0
mevinphos	Whole	0.01	Not Set	118	–	0
monocrotophos	Whole	0.01	Not Set	118	–	0
omethoate	Whole	0.01	0.05	118	0	0
parathion	Whole	0.01	Not Set	118	–	0
parathion-methyl	Whole	0.01	Not Set	118	–	0
permethrin (sum of isomers)	Whole	0.01	5	118	0	0
phenothrin (sum of isomers)	Whole	0.01	5	118	0	0
phorate	Whole	0.01	Not Set	118	–	0
phosmet	Whole	0.01	0.05	118	0	0
piperonyl butoxide	Whole	0.01	40	118	1	0
pirimicarb	Whole	0.01	0.02	118	0	0
pirimiphos-methyl	Whole	0.01	20	118	0	0
profenofos	Whole	0.01	Not Set	118	–	0
propargite	Whole	0.01	Not Set	118	–	0
prothiofos	Whole	0.01	Not Set	118	–	0
pymetrozine	Whole	0.01	Not Set	118	–	0
pyrethrins	Whole	0.01	3	118	0	0
pyriproxyfen	Whole	0.01	Not Set	118	–	0
spinetoram	Whole	0.01	Not Set	118	–	0
spinosad	Whole	0.01	2	118	0	0
spirotetramat	Whole	0.01	Not Set	118	–	0
sulfoxaflor	Whole	0.01	0.01	118	0	0
tau-fluvalinate	Whole	0.01	Not Set	118	–	0
tebufenozide	Whole	0.01	Not Set	118	–	0
tebufenpyrad	Whole	0.01	Not Set	118	–	0
terbufos	Whole	0.01	0.01	118	0	0
tetradifon	Whole	0.01	Not Set	118	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
thiacloprid	Whole	0.01	Not Set	118	–	0
thiamethoxam	Whole	0.01	0.01	118	0	0
thiodicarb	Whole	0.01	Not Set	118	–	0
triazofos	Whole	0.01	Not Set	118	–	0
trichlorfon	Whole	0.01	0.1	118	0	0
triflumuron	Whole	0.01	0.05	118	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	118	0	0
chlordane	Whole	0.01	0.02	118	0	0
DDT	Whole	0.01	0.1	118	0	0
endosulfan	Whole	0.01	Not Set	118	–	0
endrin	Whole	0.01	Not Set	118	–	0
HCB (hexachlorobenzene)	Whole	0.01	0.05	118	0	0
HCH (BHC)	Whole	0.01	0.1	118	0	0
heptachlor	Whole	0.01	0.02	118	0	0
lindane (gamma-HCH)	Whole	0.01	0.5	118	0	0
mirex	Whole	0.01	Not Set	118	–	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	0.5	64	0	0