Wheat (bran) 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	0.02	119	0	0
benalaxyl	whole	0.01	not set	119	–	0
bitertanol	whole	0.01	not set	119	–	0
bixafen	whole	0.01	0.01	119	0	0
boscalid	whole	0.01	0.5	119	0	0
bupirimate	whole	0.01	not set	119	–	0
captafol	whole	0.02	not set	119	–	0
captan	whole	0.01	not set	119	–	0
carbendazim	whole	0.01	not set	119	–	0
carboxin	whole	0.01	0.1	119	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	119	–	0
cyproconazole	whole	0.01	0.02	119	0	0
cyprodinil	whole	0.01	not set	119	–	0
difenoconazole	whole	0.01	0.01	119	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	119	–	0
dithianon	whole	0.01	not set	119	–	0
dodine	whole	0.01	not set	119	–	0
epoxiconazole	whole	0.01	0.3	119	0	0
etridiazole	whole	0.01	not set	119	–	0
fenarimol	whole	0.01	not set	119	–	0
fenbuconazole	whole	0.01	not set	119	–	0
fenhexamid	whole	0.01	not set	119	–	0
fluazinam	whole	0.01	not set	119	–	0
fludioxonil	whole	0.01	not set	119	–	0
fluquinconazole	whole	0.01	0.02	119	0	0
flusilazole	whole	0.01	not set	119	–	0
flutriafol	whole	0.01	0.1	119	0	0
fluxapyroxad	whole	0.01	0.1	119	0	0
hexaconazole	whole	0.01	not set	119	–	0
imazalil	whole	0.01	not set	119	–	0
ipconazole	whole	0.01	0.01	119	0	0
iprodione	whole	0.01	not set	119	–	0
isoprothiolane	whole	0.01	not set	119	–	0
kresoxim-methyl	whole	0.01	not set	119	–	0
metalaxyl	whole	0.01	0.01	119	0	0
myclobutanil	whole	0.01	not set	119	–	0
oxadixyl	whole	0.01	not set	119	–	0
penconazole	whole	0.01	not set	119	–	0
penflufen	whole	0.01	0.01	119	0	0
prochloraz	whole	0.01	not set	119	–	0
procymidone	whole	0.01	not set	119	–	0
propiconazole	whole	0.01	0.05	119	0	0
prothioconazole	whole	0.01	0.5	119	0	0
pyraclostrobin	whole	0.01	0.01	119	0	0
pyrimethanil	whole	0.01	not set	119	–	0
quinoxyfen	whole	0.01	not set	119	–	0
sedaxane	whole	0.01	0.01	119	0	0
spiroxamine	whole	0.01	not set	119	–	0
tebuconazole	whole	0.01	0.2	119	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	119	–	0
tolclofos methyl	whole	0.01	not set	119	–	0
triadimefon	whole	0.01	0.5	119	0	0
triadimenol	whole	0.01	0.01	119	0	0
trifloxystrobin	whole	0.01	not set	119	–	0
triticonazole	whole	0.01	0.05	119	0	0
vinclozolin	whole	0.01	not set	119	–	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	119	0	0
2,4-D	whole	0.01	0.2	119	0	0
2,4-DB	whole	0.01	0.02	119	0	0
aminopyralid	whole	0.01	0.3	119	0	0
amitrole	whole	0.01	0.01	27	0	0
atrazine	whole	0.01	not set	119	–	0
bentazone	whole	0.01	not set	119	–	0
bromacil	whole	0.01	not set	119	–	0
bromoxynil	whole	0.01	0.2	119	0	0
butroxydim	whole	0.01	not set	119	–	0
carfentrazone-ethyl	whole	0.01	0.05	119	0	0
chlormequat	whole	0.01	5	26	0	0
chlorpropham	whole	0.01	not set	119	–	0
chlorsulfuron	whole	0.01	0.05	119	0	0
chlorthal-dimethyl	whole	0.01	not set	119	–	0
clethodim (parent only)	whole	0.01	0.1	119	0	0
clodinafop-propargyl	whole	0.01	0.05	119	0	0
clopyralid	whole	0.01	2	119	0	0
cyanazine	whole	0.01	0.01	119	0	0
dicamba	whole	0.01	0.05	119	0	0
dichlobenil	whole	0.01	not set	119	–	0
dichlorprop-P	whole	0.02	not set	27	–	0
diclofop-methyl	whole	0.01	0.1	27	0	0
diflufenican	whole	0.01	0.02	119	0	0
diquat	whole	0.01	2	27	0	0
diuron	whole	0.01	0.1	119	0	0
ethofumesate	whole	0.01	not set	119	–	0
fenoxaprop-ethyl	whole	0.01	0.01	119	0	0

Wheat (bran) residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flamprop-M-methyl	whole	0.01	0.05	27	0	0
fluazifop-p-butyl	whole	0.01	not set	27	–	0
flumetsulam	whole	0.01	0.05	119	0	0
flumioxazin	whole	0.01	0.05	119	0	0
fluroxypyr	whole	0.01	0.2	119	0	0
glufosinate	whole	0.01	not set	27	–	0
glyphosate	whole	0.01	20	27	0	0
haloxyfop	whole	0.01	not set	27	–	0
imazamox	whole	0.01	0.05	116	0	0
imazapic	whole	0.01	0.05	116	0	0
imazapyr	whole	0.01	0.05	116	0	0
imazaquin	whole	0.01	not set	116	–	0
imazethapyr	whole	0.01	not set	116	–	0
iodosulfuron-methyl	whole	0.01	0.01	119	0	0
ioxynil	whole	0.01	not set	119	–	0
isoxaben	whole	0.01	0.01	119	0	0
linuron	whole	0.01	0.05	119	0	0
MCPA	whole	0.01	0.02	119	0	0
methabenzthiazuron	whole	0.01	not set	119	–	0
metolachlor	whole	0.01	0.02	119	0	0
metosulam	whole	0.01	0.02	119	0	0
metribuzin	whole	0.01	0.05	119	0	0
metsulfuron-methyl	whole	0.01	0.02	119	0	0
napropamide	whole	0.01	not set	119	–	0
norflurazon	whole	0.01	not set	119	–	0
oryzalin	whole	0.01	0.01	119	0	0
oxyfluorfen	whole	0.01	0.05	119	0	0
paraquat	whole	0.01	0.05	27	0	0
pendimethalin	whole	0.01	0.05	119	0	0
picloram	whole	0.01	0.2	119	0	0
propachlor	whole	0.01	0.05	119	0	0
propaquizafop	whole	0.02	not set	27	–	0
propyzamide	whole	0.01	not set	119	–	0
quizalofop-ethyl	whole	0.01	not set	27	–	0
quizalofop-P-tefuryl	whole	0.01	not set	27	–	0
saflufenacil	whole	0.01	0.5	119	0	0
sethoxydim	whole	0.01	0.1	119	0	0
simazine	whole	0.01	not set	119	–	0
terbutryn	whole	0.01	0.1	119	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tralkoxydim	whole	0.01	0.02	119	0	0
triallate	whole	0.01	0.05	119	0	0
triasulfuron	whole	0.01	0.02	119	0	0
triclopyr	whole	0.01	not set	119	–	0
trifluralin	whole	0.01	0.05	119	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	119	–	0
acephate	whole	0.01	not set	119	–	0
acetamiprid	whole	0.01	not set	119	–	0
aldicarb	whole	0.01	not set	119	–	0
amitraz	whole	0.01	not set	119	–	0
azamethiphos	whole	0.01	0.5	119	0	0
azinphos-methyl	whole	0.01	not set	119	–	0
bifenazate	whole	0.01	not set	119	–	0
bifenthrin	whole	0.01	0.02	119	0	0
bioresmethrin	whole	0.01	not set	119	–	0
buprofezin	whole	0.01	not set	119	–	0
cadusafos	whole	0.01	not set	119	–	0
carbaryl	whole	0.01	10	119	0	0
carbofuran	whole	0.01	0.2	119	0	0
chlorantraniliprole	whole	0.01	0.1	119	0	0
chlorfenapyr	whole	0.01	not set	119	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	119	0	0
chlorpyrifos	whole	0.01	0.1	119	0	0
chlorpyrifos-methyl	whole	0.01	20	119	1	0
clofentezine	whole	0.01	not set	119	–	0
clothianidin	whole	0.01	0.02	119	0	0
cyfluthrin (sum of isomers)	whole	0.01	5	119	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	119	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	119	0	0
deltamethrin	whole	0.01	5	119	0	0
diafenthiuron	whole	0.01	not set	119	–	0
diazinon	whole	0.01	0.1	119	0	0
dichlorvos	whole	0.01	0.01	119	0	2

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dicofol	whole	0.01	not set	119	–	0
diflubenzuron	whole	0.01	not set	119	–	0
dimethoate	whole	0.01	1	119	0	0
disulfoton	whole	0.01	not set	119	–	0
emamectin	whole	0.01	0.01	119	0	0
esfenvalerate	whole	0.01	5	119	0	0
ethion	whole	0.01	not set	119	–	0
ethoprophos	whole	0.005	0.005	119	0	0
etoxazole	whole	0.01	not set	119	–	0
fenamiphos	whole	0.01	not set	119	–	0
fenbutatin oxide	whole	0.01	not set	119	–	0
fenitrothion	whole	0.01	20	119	0	0
fenoxycarb	whole	0.01	not set	119	–	0
fenpyroximate	whole	0.01	not set	119	–	0
fenthion	whole	0.01	not set	119	–	0
fenvalerate (sum of isomers)	whole	0.01	5	119	0	0
fipronil	whole	0.002	not set	119	–	0
hexythiazox	whole	0.01	not set	119	–	0
imidacloprid	whole	0.01	0.05	119	0	0
indoxacarb	whole	0.01	not set	119	–	0
malathion (maldison)	whole	0.01	20	119	0	0
methacrifos	whole	0.01	not set	119	–	0
methamidophos	whole	0.01	not set	119	–	0
methidathion	whole	0.01	0.01	119	0	0
methiocarb	whole	0.01	not set	119	–	0
methomyl	whole	0.01	0.1	119	0	0
methoprene	whole	0.01	5	119	1	0
methoxychlor	whole	0.01	not set	119	–	0
methoxyfenozide	whole	0.01	not set	119	–	0
mevinphos	whole	0.01	not set	119	–	0
monocrotophos	whole	0.01	not set	119	–	0
omethoate	whole	0.01	0.05	119	0	0
parathion	whole	0.01	not set	119	–	0
parathion-methyl	whole	0.01	not set	119	–	0
permethrin (sum of isomers)	whole	0.01	5	119	0	0
phenothrin (sum of isomers)	whole	0.01	5	119	0	0
phorate	whole	0.01	not set	119	–	0
phosmet	whole	0.01	0.05	119	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
piperonyl butoxide	whole	0.01	40	119	0	0
pirimicarb	whole	0.01	0.02	119	0	0
pirimiphos-methyl	whole	0.01	20	119	0	0
profenofos	whole	0.01	not set	119	–	0
propargite	whole	0.01	not set	119	–	0
prothiofos	whole	0.01	not set	119	–	0
pymetrozine	whole	0.01	not set	119	–	0
pyrethrins	whole	0.01	3	119	0	0
pyriproxyfen	whole	0.01	not set	119	–	0
spinetoram	whole	0.01	not set	119	–	0
spinosad	whole	0.01	2	119	0	0
spirotetramat	whole	0.01	not set	119	–	0
sulfoxaflor	whole	0.01	0.01	119	0	0
tau-fluvalinate	whole	0.01	not set	119	–	0
tebufenozide	whole	0.01	not set	119	–	0
tebufenpyrad	whole	0.01	not set	119	–	0
terbufos	whole	0.01	0.01	119	0	0
tetradifon	whole	0.01	not set	119	–	0
thiacloprid	whole	0.01	not set	119	–	0
thiamethoxam	whole	0.01	0.01	119	0	0
thiodicarb	whole	0.01	not set	119	–	0
triazofos	whole	0.01	not set	119	–	0
trichlorfon	whole	0.01	0.1	119	0	0
triflumuron	whole	0.01	0.05	119	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	119	0	0
chlordane	whole	0.01	0.02	119	0	0
DDT	whole	0.01	0.1	119	0	0
endosulfan	whole	0.01	not set	119	–	0
endrin	whole	0.01	not set	119	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	119	0	0
HCH (BHC)	whole	0.01	0.1	119	0	0
heptachlor	whole	0.01	0.02	119	0	0
lindane (gamma-HCH)	whole	0.01	0.5	119	0	0
mirex	whole	0.01	not set	119	–	0