



Wheat (flour) 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	128	0	0
benalaxyl	whole	0.01	not set	128	–	0
bitertanol	whole	0.01	not set	128	–	0
bixafen	whole	0.01	0.01	128	0	0
boscalid	whole	0.01	0.5	128	0	0
bupirimate	whole	0.01	not set	128	–	0
captafol	whole	0.02	not set	128	–	0
captan	whole	0.01	not set	128	–	0
carbendazim	whole	0.01	not set	128	–	0
carboxin	whole	0.01	0.1	128	0	0
chlorothalonil	whole	0.01	not set	128	–	0

Wheat Flour residue testing annual datasets 2019–20

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	0.02	128	0	0
cyprodinil	whole	0.01	not set	128	–	0
difenoconazole	whole	0.01	0.01	128	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	128	–	0
dithianon	whole	0.01	not set	128	–	0
dodine	whole	0.01	not set	128	–	0
epoxiconazole	whole	0.01	0.05	128	0	0
etridiazole	whole	0.01	not set	128	–	0
fenarimol	whole	0.01	not set	128	–	0
fenbuconazole	whole	0.01	not set	128	–	0
fenhexamid	whole	0.01	not set	128	–	0
fluazinam	whole	0.01	not set	128	–	0
fludioxonil	whole	0.01	not set	128	–	0
fluquinconazole	whole	0.01	0.02	128	0	0
flusilazole	whole	0.01	not set	128	–	0
flutriafol	whole	0.01	0.1	128	0	0
fluxapyroxad	whole	0.01	0.01	128	0	0
hexaconazole	whole	0.01	not set	128	–	0
imazalil	whole	0.01	not set	128	–	0
ipconazole	whole	0.01	0.01	128	0	0
iprodione	whole	0.01	not set	128	–	0
isoprothiolane	whole	0.01	not set	128	–	0
kresoxim-methyl	whole	0.01	not set	128	–	0
metalaxyl	whole	0.01	0.01	128	0	0
myclobutanil	whole	0.01	not set	128	–	0
oxadixyl	whole	0.01	not set	128	–	0
penconazole	whole	0.01	not set	128	–	0
penflufen	whole	0.01	0.01	128	0	0
prochloraz	whole	0.01	not set	128	–	0
procymidone	whole	0.01	not set	128	–	0
propiconazole	whole	0.01	0.05	128	0	0
prothioconazole	whole	0.01	0.3	128	0	0
pyraclostrobin	whole	0.01	0.01	128	0	0
pyrimethanil	whole	0.01	not set	128	–	0
quinoxifen	whole	0.01	not set	128	–	0
sedaxane	whole	0.01	0.01	128	0	0
spiroxamine	whole	0.01	not set	128	–	0
tebuconazole	whole	0.01	0.2	128	0	0
thiabendazole	whole	0.01	not set	128	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tolclofos methyl	whole	0.01	not set	128	–	0
triadimefon	whole	0.01	0.5	128	0	0
triadimenol	whole	0.01	0.01	128	0	0
trifloxystrobin	whole	0.01	not set	128	–	0
triticonazole	whole	0.01	0.05	128	0	0
vinclozolin	whole	0.01	not set	128	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australia n standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.01	0.1	128	0	0
2,4-D	whole	0.01	0.2	128	0	0
2,4-DB	whole	0.01	0.02	128	0	0
aminopyralid	whole	0.01	0.1	128	0	0
amitrole	whole	0.01	0.01	26	0	0
atrazine	whole	0.01	not set	128	–	0
bentazone	whole	0.01	not set	128	–	0
bromacil	whole	0.01	not set	128	–	0
bromoxynil	whole	0.01	0.2	128	0	0
butroxydim	whole	0.01	not set	128	–	0
carfentrazone-ethyl	whole	0.01	0.05	128	0	0
chlormequat	whole	0.01	5	26	0	0
chlorpropham	whole	0.01	not set	128	–	0
chlorsulfuron	whole	0.01	0.05	128	0	0
chlorthal-dimethyl	whole	0.01	not set	128	–	0
clethodim (parent only)	whole	0.01	0.1	128	0	0
clodinafop-propargyl	whole	0.01	0.05	128	0	0
clopyralid	whole	0.01	2	128	0	0
cyanazine	whole	0.01	0.01	128	0	0
dicamba	whole	0.01	0.05	128	0	0
dichlobenil	whole	0.01	not set	128	–	0
dichlorprop-P	whole	0.01	not set	26	–	0
diclofop-methyl	whole	0.01	0.1	26	0	0
diflufenican	whole	0.01	0.02	128	0	0
diquat	whole	0.01	2	26	0	0
diuron	whole	0.01	0.1	128	0	0
ethofumesate	whole	0.01	not set	128	–	0
fenoxaprop-ethyl	whole	0.01	0.01	128	0	0

Chemical	Matrix	LOR (mg/kg)	Australia n standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flamprop-M-methyl	whole	0.01	0.05	26	0	0
fluazifop-p-butyl	whole	0.01	not set	26	–	0
flumetsulam	whole	0.01	0.05	128	0	0
flumioxazin	whole	0.01	0.05	128	0	0
fluroxypyr	whole	0.01	0.2	128	0	0
glufosinate	whole	0.01	not set	26	–	0
glyphosate	whole	0.01	5	26	0	0
haloxyfop	whole	0.01	not set	26	–	0
imazamox	whole	0.01	not set	125	–	0
imazapic	whole	0.01	0.05	125	0	0
imazapyr	whole	0.01	0.05	125	0	0
imazaquin	whole	0.01	not set	125	–	0
imazethapyr	whole	0.01	not set	125	–	0
iodosulfuron-methyl	whole	0.01	0.01	128	0	0
ioxynil	whole	0.01	not set	128	–	0
isoxaben	whole	0.01	0.01	128	0	0
linuron	whole	0.01	0.05	128	0	0
MCPA	whole	0.01	0.02	128	0	0
methabenzthiazuron	whole	0.01	not set	128	–	0
metolachlor	whole	0.01	0.02	128	0	0
metosulam	whole	0.01	0.02	128	0	0
metribuzin	whole	0.01	0.05	128	0	0
metsulfuron-methyl	whole	0.01	0.02	128	0	0
napropamide	whole	0.01	not set	128	–	0
norflurazon	whole	0.01	not set	128	–	0
oryzalin	whole	0.01	0.01	128	0	0
oxyfluorfen	whole	0.01	0.05	128	0	0
paraquat	whole	0.01	0.05	26	0	0
pendimethalin	whole	0.01	0.05	128	0	0
picloram	whole	0.01	0.2	128	0	0
propachlor	whole	0.01	0.05	128	0	0
propaquizafop	whole	0.01	not set	26	–	0
propyzamide	whole	0.01	not set	128	–	0
quizalofop-ethyl	whole	0.01	not set	26	–	0
quizalofop-P-tefuryl	whole	0.01	not set	26	–	0
saflufenacil	whole	0.01	0.2	128	0	0
sethoxydim	whole	0.01	0.1	128	0	0
simazine	whole	0.01	not set	128	–	0
terbutryn	whole	0.01	0.1	128	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	128	0	0
triallate	whole	0.01	0.05	128	0	0
triasulfuron	whole	0.01	0.02	128	0	0
triclopyr	whole	0.01	not set	128	–	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	128	–	0
acephate	whole	0.01	not set	128	–	0
acetamiprid	whole	0.01	not set	128	–	0
aldicarb	whole	0.01	not set	128	–	0
amitraz	whole	0.01	not set	128	–	0
azamethiphos	whole	0.01	0.1	128	0	0
azinphos-methyl	whole	0.01	not set	128	–	0
bifenazate	whole	0.01	not set	128	–	0
bifenthrin	whole	0.01	0.02	128	0	0
bioresmethrin	whole	0.01	not set	128	–	0
buprofezin	whole	0.01	not set	128	–	0
cadusafos	whole	0.01	not set	128	–	0
carbaryl	whole	0.01	5	128	0	0
carbofuran	whole	0.01	0.2	128	0	0
chlorantraniliprole	whole	0.01	0.1	128	0	0
chlorfenapyr	whole	0.01	not set	128	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	128	0	0
chlorpyrifos	whole	0.01	0.1	128	0	0
chlorpyrifos-methyl	whole	0.01	10	128	0	0
clofentezine	whole	0.01	not set	128	–	0
clothianidin	whole	0.01	0.02	128	0	0
cyfluthrin (sum of isomers)	whole	0.01	2	128	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	128	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	128	0	0
deltamethrin	whole	0.01	2	128	0	0
diafenthiuron	whole	0.01	not set	128	–	0
diazinon	whole	0.01	0.1	128	0	0
dichlorvos	whole	0.01	0.01	128	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	128	–	0
diflubenzuron	whole	0.01	not set	128	–	0
dimethoate	whole	0.01	0.05	128	0	0
disulfoton	whole	0.01	not set	128	–	0
emamectin	whole	0.01	0.01	128	0	0
esfenvalerate	whole	0.01	2	128	0	0
ethion	whole	0.01	not set	128	–	0
ethoprophos	whole	0.005	0.005	128	0	0
etoxazole	whole	0.01	not set	128	–	0
fenamiphos	whole	0.01	not set	128	–	0
fenbutatin oxide	whole	0.01	not set	128	–	0
fenitrothion	whole	0.01	10	128	0	0
fenoxycarb	whole	0.01	not set	128	–	0
fenpyroximate	whole	0.01	not set	128	–	0
fenthion	whole	0.01	not set	128	–	0
fenvalerate (sum of isomers)	whole	0.01	2	128	0	0
fipronil	whole	0.002	not set	128	–	0
hexythiazox	whole	0.01	not set	128	–	0
imidacloprid	whole	0.01	0.05	128	0	0
indoxacarb	whole	0.01	not set	128	–	0
malathion (maldison)	whole	0.01	8	128	0	0
methacrifos	whole	0.01	not set	128	–	0
methamidophos	whole	0.01	not set	128	–	0
methidathion	whole	0.01	0.01	128	0	0
methiocarb	whole	0.01	not set	128	–	0
methomyl	whole	0.01	0.1	128	0	0
methoprene	whole	0.01	2	128	0	0
methoxychlor	whole	0.01	not set	128	–	0
methoxyfenozide	whole	0.01	not set	128	–	0
mevinphos	whole	0.01	not set	128	–	0
monocrotophos	whole	0.01	not set	128	–	0
omethoate	whole	0.01	0.05	128	0	0
parathion	whole	0.01	not set	128	–	0
parathion-methyl	whole	0.01	not set	128	–	0
permethrin (sum of isomers)	whole	0.01	2	128	0	0
phenothrin (sum of isomers)	whole	0.01	2	128	0	0
phorate	whole	0.01	not set	128	–	0
phosmet	whole	0.01	0.05	128	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	20	128	0	0
pirimicarb	whole	0.01	0.02	128	0	0
pirimiphos-methyl	whole	0.01	10	128	0	0
profenofos	whole	0.01	not set	128	–	0
propargite	whole	0.01	not set	128	–	0
prothiofos	whole	0.01	not set	128	–	0
pymetrozine	whole	0.01	not set	128	–	0
pyrethrins	whole	0.01	3	128	0	0
pyriproxyfen	whole	0.01	not set	128	–	0
spinetoram	whole	0.01	not set	128	–	0
spinosad	whole	0.01	1	128	0	0
spirotetramat	whole	0.01	not set	128	–	0
sulfoxaflor	whole	0.01	0.01	128	0	0
tau-fluvalinate	whole	0.01	not set	128	–	0
tebufenozide	whole	0.01	not set	128	–	0
tebufenpyrad	whole	0.01	not set	128	–	0
terbufos	whole	0.01	0.01	128	0	0
tetradifon	whole	0.01	not set	128	–	0
thiacloprid	whole	0.01	not set	128	–	0
thiamethoxam	whole	0.01	0.01	128	0	0
thiodicarb	whole	0.01	not set	128	–	0
triazofos	whole	0.01	not set	128	–	0
trichlorfon	whole	0.01	0.1	128	0	0
triflumuron	whole	0.01	0.05	128	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	128	0	0
chlordan	whole	0.01	0.02	128	0	0
DDT	whole	0.01	0.1	128	0	0
endosulfan	whole	0.01	not set	128	–	0
endrin	whole	0.01	not set	128	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	128	0	0
HCH (BHC)	whole	0.01	0.1	128	0	0
heptachlor	whole	0.01	0.02	128	0	0
lindane (gamma-HCH)	whole	0.01	0.5	128	0	0
mirex	whole	0.01	not set	128	–	0