



Wheat (flour) residue testing annual datasets 2018–19

National Residue Survey, Department of Agriculture

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	116	0	0
benalaxyl	whole	0.01	not set	116	–	0
bitertanol	whole	0.01	not set	116	–	0
bixafen-P	whole	0.01	0.01	69	0	0
boscalid	whole	0.01	0.5	116	0	0
bupirimate	whole	0.01	not set	116	–	0
captafol	whole	0.02	not set	116	–	0
captan	whole	0.01	not set	116	–	0
carbendazim	whole	0.01	not set	116	–	0
carboxin	whole	0.01	0.1	69	0	0
chlorothalonil	whole	0.01	not set	116	–	0
cyproconazole	whole	0.01	0.02	116	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyprodinil	whole	0.01	not set	116	–	0
difenoconazole	whole	0.01	0.01	116	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	116	–	0
dithianon	whole	0.01	not set	116	–	0
dodine	whole	0.01	not set	116	–	0
epoxiconazole	whole	0.01	0.05	116	0	0
etridiazole	whole	0.01	not set	116	–	0
fenarimol	whole	0.01	not set	116	–	0
fenbuconazole	whole	0.01	not set	69	–	0
fenhexamid	whole	0.01	not set	116	–	0
fluazinam	whole	0.01	not set	116	–	0
fludioxonil	whole	0.01	not set	116	–	0
fluquinconazole	whole	0.01	0.02	116	0	0
flusilazole	whole	0.01	not set	116	–	0
flutriafol	whole	0.01	0.1	116	0	0
fluxapyroxad	whole	0.01	0.01	116	0	0
hexaconazole	whole	0.01	not set	116	–	0
imazalil	whole	0.01	not set	116	–	0
ipconazole	whole	0.01	0.01	116	0	0
iprodione	whole	0.01	not set	116	–	0
isoprothiolane	whole	0.01	not set	69	–	0
kresoxim-methyl	whole	0.01	not set	116	–	0
metalaxyl	whole	0.01	0.01	116	0	0
myclobutanil	whole	0.01	not set	116	–	0
oxadixyl	whole	0.01	not set	116	–	0
penconazole	whole	0.01	not set	116	–	0
penflufen	whole	0.01	0.01	69	0	0
prochloraz	whole	0.01	not set	116	–	0
procymidone	whole	0.01	not set	116	–	0
propiconazole	whole	0.01	0.05	116	0	0
prothioconazole	whole	0.01	0.3	116	0	0
pyraclostrobin	whole	0.01	0.01	116	0	0
pyrimethanil	whole	0.01	not set	116	–	0
quinoxifen	whole	0.01	not set	116	–	0
sedaxane	whole	0.01	0.01	69	0	0
spiroxamine-P	whole	0.01	not set	116	–	0
tebuconazole	whole	0.01	0.2	116	–	0
thiabendazole-P	whole	0.01	not set	116	–	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	116	–	0
triadimefon	whole	0.01	0.5	116	0	0
triadimenol	whole	0.01	0.01	116	0	0
trifloxystrobin	whole	0.01	not set	116	–	0
triticonazole	whole	0.01	0.05	116	0	0
vinclozolin	whole	0.01	not set	116	–	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	116	0	0
2,4-D	whole	0.01	0.2	116	0	0
2,4-DB	whole	0.01	0.02	69	0	0
aminopyralid	whole	0.01	0.1	69	0	0
amitrole	whole	0.01	0.01	27	0	0
atrazine	whole	0.01	not set	116	–	0
bentazone	whole	0.01	not set	69	–	0
bromacil	whole	0.01	not set	116	–	0
bromoxynil	whole	0.01	0.2	116	0	0
butoxydim	whole	0.01	not set	69	–	0
carfentrazone-ethyl	whole	0.01	0.05	116	0	0
chlorpropham	whole	0.01	not set	116	–	0
chlorsulfuron	whole	0.01	0.05	116	0	0
chlorthal-dimethyl	whole	0.01	not set	116	–	0
clethodim (parent only)	whole	0.01	0.1	116	0	0
clodinafop-propargyl	whole	0.01	0.05	116	0	0
clopyralid	whole	0.01	2	116	0	0
cyanazine	whole	0.01	0.01	116	0	0
dicamba	whole	0.01	0.05	116	0	0
dichlobenil	whole	0.01	not set	116	–	0
dichlorprop-P	whole	0.02	not set	87	–	0
diclofop-methyl	whole	0.01	0.1	27	0	0
diflufenican	whole	0.01	0.02	116	0	0
diquat	whole	0.01	2	27	0	0
diuron	whole	0.01	0.1	116	0	0
ethofumesate	whole	0.01	not set	116	–	0
fenoxaprop-ethyl	whole	0.01	0.01	27	0	0
flamprop-M-methyl	whole	0.01	0.05	27	0	0

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	27	–	0
flumetsulam	whole	0.01	0.05	116	0	0
flumioxazin	whole	0.01	0.05	69	0	0
fluroxypyr	whole	0.01	0.2	69	0	0
glufosinate	whole	0.01	not set	27	–	0
glyphosate	whole	0.01	5	27	0	0
haloxyfop	whole	0.01	not set	27	–	0
imazamox	whole	0.01	not set	116	–	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	116	0	0
ioxynil	whole	0.01	not set	116	–	0
isoxaben	whole	0.01	0.01	116	0	0
linuron	whole	0.01	0.05	116	0	0
MCPA	whole	0.01	0.02	116	0	0
methabenzthiazuron	whole	0.01	not set	116	–	0
metolachlor	whole	0.01	0.02	116	0	0
metosulam	whole	0.01	0.02	116	0	0
metribuzin	whole	0.01	0.05	116	0	0
metsulfuron-methyl	whole	0.01	0.02	116	0	0
napropamide	whole	0.01	not set	116	–	0
norflurazon	whole	0.01	not set	116	–	0
oryzalin	whole	0.01	0.01	116	0	0
oxyfluorfen	whole	0.01	0.05	116	0	0
paraquat	whole	0.01	0.05	27	0	0
pendimethalin	whole	0.01	0.05	116	0	0
picloram	whole	0.01	0.2	116	0	0
propachlor	whole	0.01	0.05	116	0	0
propaquizafop	whole	0.02	not set	13	–	0
propyzamide	whole	0.01	not set	116	–	0
quizalofop-ethyl	whole	0.01	not set	27	–	0
quizalofop-P-tefuryl	whole	0.01	not set	27	–	0
saflufenacil	whole	0.01	0.2	116	0	0
sethoxydim	whole	0.01	0.1	116	0	0
simazine	whole	0.01	not set	116	–	0
terbutryn	whole	0.01	0.1	69	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	116	0	0
triallate	whole	0.01	0.05	69	0	0
triasulfuron	whole	0.01	0.02	116	0	0
triclopyr	whole	0.01	not set	116	–	0
trifluralin	whole	0.01	0.05	116	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	116	–	0
acephate	whole	0.01	not set	116	–	0
acetamiprid-P	whole	0.01	not set	116	–	0
aldicarb	whole	0.01	not set	116	–	0
amitraz	whole	0.01	not set	116	–	0
azamethiphos	whole	0.01	0.1	116	0	0
azinphos-methyl	whole	0.01	not set	116	–	0
bifenazate	whole	0.01	not set	116	–	0
bifenthrin	whole	0.01	0.02	116	0	0
bioresmethrin	whole	0.01	not set	116	–	0
buprofezin	whole	0.01	not set	116	–	0
cadusafos	whole	0.01	not set	116	–	0
carbaryl	whole	0.01	5	116	0	0
carbofuran	whole	0.01	0.2	116	0	0
chlorantraniliprole	whole	0.01	0.01	116	0	0
chlorfenapyr	whole	0.01	not set	116	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	116	0	0
chlorpyrifos	whole	0.01	0.1	116	0	0
chlorpyrifos-methyl	whole	0.01	10	116	0	0
clofentezine	whole	0.01	not set	116	–	0
clothianidin	whole	0.01	0.02	116	0	0
cyfluthrin (sum of isomers)	whole	0.01	2	116	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	116	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	116	0	0
deltamethrin	whole	0.01	2	116	0	0
diafenthiuron	whole	0.01	not set	116	–	0
diazinon	whole	0.01	0.1	116	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dichlorvos	whole	0.01	0.01	116	0	0
dicofol	whole	0.01	not set	116	–	0
diflubenzuron	whole	0.01	not set	116	–	0
dimethoate	whole	0.01	0.05	116	0	0
disulfoton	whole	0.01	not set	116	–	0
emamectin	whole	0.01	not set	116	–	0
esfenvalerate	whole	0.01	2	116	0	0
ethion	whole	0.01	not set	116	–	0
ethoprophos	whole	0.005	0.005	116	0	0
etoxazole	whole	0.01	not set	116	–	0
fenamiphos	whole	0.01	not set	116	–	0
fenbutatin oxide	whole	0.01	not set	116	–	0
fenitrothion	whole	0.01	10	116	0	0
fenoxycarb	whole	0.01	not set	116	–	0
fenpyroximate	whole	0.01	not set	116	–	0
fenthion	whole	0.01	not set	116	–	0
fenvalerate (sum of isomers)	whole	0.01	2	116	0	0
fipronil	whole	0.002	not set	116	–	0
hexythiazox	whole	0.01	not set	116	–	0
imidacloprid	whole	0.01	0.05	116	0	0
indoxacarb	whole	0.01	not set	116	–	0
malathion (maldison)	whole	0.01	8	116	0	0
methacrifos	whole	0.01	not set	116	–	0
methamidophos	whole	0.01	not set	116	–	0
methidathion	whole	0.01	0.01	116	0	0
methiocarb	whole	0.01	not set	116	–	0
methomyl	whole	0.01	0.1	116	0	0
methoprene	whole	0.01	2	116	0	0
methoxychlor	whole	0.01	not set	116	–	0
methoxyfenozide	whole	0.01	not set	116	–	0
mevinphos	whole	0.01	not set	116	–	0
monocrotophos	whole	0.01	not set	116	–	0
omethoate	whole	0.01	0.05	116	0	0
parathion	whole	0.01	not set	116	–	0
parathion-methyl	whole	0.01	not set	116	–	0
permethrin (sum of isomers)	whole	0.01	2	116	0	0
phenothrin (sum of isomers)	whole	0.01	2	116	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
phorate	whole	0.01	not set	116	–	0
phosmet	whole	0.01	0.05	116	0	0
piperonyl butoxide	whole	0.01	20	116	0	0
pirimicarb	whole	0.01	0.02	116	0	0
pirimiphos-methyl	whole	0.01	10	116	0	0
profenofos	whole	0.01	not set	116	–	0
propargite	whole	0.01	not set	116	–	0
prothiofos	whole	0.01	not set	116	–	0
pymetrozine	whole	0.01	not set	116	–	0
pyrethrins	whole	0.01	3	116	0	0
pyriproxyfen	whole	0.01	not set	116	–	0
spinetoram	whole	0.01	not set	116	–	0
spinosad	whole	0.01	1	116	0	0
spirotetramat	whole	0.01	not set	116	–	0
sulfoxaflor	whole	0.01	0.01	116	0	0
tau-fluvalinate	whole	0.01	not set	116	–	0
tebufenozide	whole	0.01	not set	116	–	0
tebufenpyrad	whole	0.01	not set	116	–	0
terbufos	whole	0.01	0.01	116	0	0
tetradifon	whole	0.01	not set	116	–	0
thiacloprid	whole	0.01	not set	116	–	0
thiamethoxam	whole	0.01	0.01	116	0	0
thiodicarb	whole	0.01	not set	116	–	0
triazofos	whole	0.01	not set	116	–	0
trichlorfon	whole	0.01	0.1	116	0	0
triflumuron	whole	0.01	0.05	116	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	116	0	0
chlordane	whole	0.01	0.02	116	0	0
DDT	whole	0.01	0.1	116	0	0
endosulfan	whole	0.01	not set	116	–	0
endrin	whole	0.01	not set	116	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	116	0	0
HCH (BHC)	whole	0.01	0.1	116	0	0
heptachlor	whole	0.01	0.02	116	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
lindane (gamma-HCH)	whole	0.01	0.5	116	0	0
mirex	whole	0.01	not set	116	–	0