



Wheat (flour) 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	125	0	0
benalaxyl	whole	0.01	not set	125	–	0
bitertanol	whole	0.01	not set	125	–	0
bixafen	whole	0.01	0.01	125	0	0
boscalid	whole	0.01	0.5	125	0	0
bupirimate	whole	0.01	not set	125	–	0
captafol	whole	0.02	not set	125	–	0
captan	whole	0.01	not set	125	–	0
carbendazim	whole	0.01	not set	125	–	0
carboxin	whole	0.01	0.1	125	0	0
chlorothalonil	whole	0.01	not set	125	–	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyproconazole	whole	0.01	0.02	125	0	0
cyprodinil	whole	0.01	not set	125	–	0
difenoconazole	whole	0.01	0.01	125	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	125	–	0
dithianon	whole	0.01	not set	125	–	0
dodine	whole	0.01	not set	125	–	0
epoxiconazole	whole	0.01	0.05	125	0	0
etridiazole	whole	0.01	not set	125	–	0
fenarimol	whole	0.01	not set	125	–	0
fenbuconazole	whole	0.01	not set	125	–	0
fenhexamid	whole	0.01	not set	125	–	0
fluazinam	whole	0.01	not set	125	–	0
fludioxonil	whole	0.01	not set	125	–	0
fluquinconazole	whole	0.01	0.02	125	0	0
flusilazole	whole	0.01	not set	125	–	0
flutriafol	whole	0.01	0.1	125	0	0
fluxapyroxad	whole	0.01	0.01	125	0	0
hexaconazole	whole	0.01	not set	125	–	0
imazalil	whole	0.01	not set	125	–	0
ipconazole	whole	0.01	0.01	125	0	0
iprodione	whole	0.01	not set	125	–	0
isoprothiolane	whole	0.01	not set	125	–	0
kresoxim-methyl	whole	0.01	not set	125	–	0
metalaxyl	whole	0.01	0.01	125	0	0
myclobutanil	whole	0.01	not set	125	–	0
oxadixyl	whole	0.01	not set	125	–	0
penconazole	whole	0.01	not set	125	–	0
penflufen	whole	0.01	0.01	125	0	0
prochloraz	whole	0.01	not set	125	–	0
procymidone	whole	0.01	not set	125	–	0
propiconazole	whole	0.01	0.05	125	0	0
prothioconazole	whole	0.01	0.3	125	0	0
pyraclostrobin	whole	0.01	0.01	125	0	0
pyrimethanil	whole	0.01	not set	125	–	0
quinoxifen	whole	0.01	not set	125	–	0
sedaxane	whole	0.01	0.01	125	0	0
spiroxamine	whole	0.01	not set	125	–	0
tebuconazole	whole	0.01	0.2	125	0	0
thiabendazole	whole	0.01	not set	125	–	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	125	–	0
triadimefon	whole	0.01	0.5	125	0	0
triadimenol	whole	0.01	0.01	125	0	0
trifloxystrobin	whole	0.01	not set	125	–	0
triticonazole	whole	0.01	0.05	125	0	0
vinclozolin	whole	0.01	not set	125	–	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	125	0	0
2,4-D	whole	0.01	0.2	125	0	0
2,4-DB	whole	0.01	0.02	125	0	0
acifluorfen	whole	0.01	not set	70	–	0
ametryn	whole	0.01	not set	70	–	0
aminopyralid	whole	0.01	0.1	125	0	0
amitrole	whole	0.01	0.01	20	0	0
atrazine	whole	0.01	not set	125	–	0
bentazone	whole	0.01	not set	125	–	0
bicyclopyrone	whole	0.01	0.02	70	0	0
bromacil	whole	0.01	not set	125	–	0
bromoxynil	whole	0.01	0.2	125	0	0
butoxydim	whole	0.01	not set	125	–	0
carfentrazone-ethyl	whole	0.01	0.05	125	0	0
chlormequat	whole	0.01	5	20	0	0
chlorpropham	whole	0.01	not set	125	–	0
chlorsulfuron	whole	0.01	0.05	125	0	0
chlorthal-dimethyl	whole	0.01	not set	125	–	0
clethodim (parent only)	whole	0.01	0.1	125	0	0
clodinafop acid	whole	0.01	0.1	70	0	0
clodinafop-propargyl	whole	0.01	0.05	125	0	0
clomazone	whole	0.01	not set	70	–	0
clopyralid	whole	0.01	2	125	0	0
cloquintocet-mexyl	whole	0.01	0.1	70	0	0
cyanazine	whole	0.01	0.01	125	0	0
dicamba	whole	0.01	0.05	125	0	0
dichlobenil	whole	0.01	not set	125	–	0
dichlorprop	whole	0.01	not set	20	–	0

Chemical	Matrix	LOR (mg/kg)	Australia n standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diclofop-methyl	whole	0.01	0.1	20	0	0
diflufenican	whole	0.01	0.02	125	0	0
dimethenamid	whole	0.01	not set	70	–	0
diquat	whole	0.01	2	20	0	0
diuron	whole	0.01	0.1	125	0	0
EPTC	whole	0.01	0.04	70	0	0
ethofumesate	whole	0.01	not set	125	–	0
fenoxaprop-ethyl	whole	0.01	0.01	125	0	0
flamprop-M-methyl	whole	0.01	0.05	20	0	0
florasulam	whole	0.01	0.01	70	0	0
fluazifop-p-butyl	whole	0.01	not set	20	–	0
flumetsulam	whole	0.01	0.05	125	0	0
flumioxazin	whole	0.01	0.05	125	0	0
fluroxypyr	whole	0.01	0.2	125	0	0
glufosinate	whole	0.01	not set	20	–	0
glyphosate	whole	0.01	5	20	0	0
halauxifen-methyl	whole	0.01	0.01	70	0	0
halosulfuron-methyl	whole	0.01	not set	70	–	0
haloxyfop	whole	0.01	not set	20	–	0
iodosulfuron-methyl	whole	0.01	0.01	125	0	0
ioxynil	whole	0.01	not set	125	–	0
isoxaben	whole	0.01	0.01	125	0	0
isoxaflutole	whole	0.01	0.02	70	0	0
linuron	whole	0.01	0.05	125	0	0
MCPA	whole	0.01	0.02	125	0	0
MCPB	whole	0.01	0.02	70	0	0
mefenpyr-diethyl	whole	0.01	0.01	70	0	0
metazachlor	whole	0.01	0.03	70	0	0
methabenzthiazuron	whole	0.01	not set	125	–	0
metolachlor	whole	0.01	0.02	125	0	0
metosulam	whole	0.01	0.02	125	0	0
metribuzin	whole	0.01	0.05	125	0	0
metsulfuron-methyl	whole	0.01	0.02	125	0	0
napropamide	whole	0.01	not set	125	–	0
norflurazon	whole	0.01	not set	125	–	0
oryzalin	whole	0.01	0.01	125	0	0
oxyfluorfen	whole	0.01	0.05	125	0	0
paraquat	whole	0.01	0.05	20	0	0
pendimethalin	whole	0.01	0.05	125	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	125	0	0
picolinafen	whole	0.01	0.02	70	0	0
pinoxaden (parent)	whole	0.01	not set	70	–	0
prometryn	whole	0.01	0.1	70	0	0
propachlor	whole	0.01	0.05	125	0	0
propaquizafop	whole	0.01	not set	20	–	0
propyzamide	whole	0.01	not set	125	–	0
prosulfocarb	whole	0.01	0.01	70	0	0
pyraflufen-ethyl	whole	0.01	0.02	70	0	0
pyrasulfotole	whole	0.01	0.02	70	0	0
pyroxasulfone	whole	0.01	0.01	70	0	0
pyroxsulam	whole	0.01	0.01	70	0	0
quizalofop-ethyl	whole	0.01	not set	20	–	0
quizalofop-P-tefuryl	whole	0.01	not set	20	–	0
saflufenacil	whole	0.01	0.2	125	0	0
sethoxydim	whole	0.01	0.1	125	0	0
simazine	whole	0.01	not set	125	–	0
sulfosulfuron	whole	0.01	0.01	70	0	0
terbuthylazine	whole	0.01	0.01	70	0	0
terbutryn	whole	0.01	0.1	125	0	0
tralkoxydim	whole	0.01	0.02	125	0	0
triallate	whole	0.01	0.05	125	0	0
triasulfuron	whole	0.01	0.02	125	0	0
tribenuron-methyl	whole	0.01	0.01	70	0	0
triclopyr	whole	0.01	not set	125	–	0
trifluralin	whole	0.01	0.05	125	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	125	–	0
acetamiprid	whole	0.01	not set	125	–	0
aldicarb	whole	0.01	not set	125	–	0
amitraz	whole	0.01	not set	125	–	0
azamethiphos	whole	0.01	0.1	125	0	0
azinphos-methyl	whole	0.01	not set	125	–	0
bifenazate	whole	0.01	not set	125	–	0
bifenthrin	whole	0.01	0.02	125	0	0
bioresmethrin	whole	0.01	not set	125	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
buprofezin	whole	0.01	0.01	125	0	0
cadusafos	whole	0.01	not set	125	–	0
carbaryl	whole	0.01	5	125	0	0
carbofuran	whole	0.01	not set	125	–	0
chlorantraniliprole	whole	0.01	0.1	125	0	0
chlorfenapyr	whole	0.01	not set	125	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	125	0	0
chlorpyrifos	whole	0.01	0.1	125	0	0
chlorpyrifos-methyl	whole	0.01	10	125	0	0
clofentezine	whole	0.01	not set	125	–	0
clothianidin	whole	0.01	0.02	125	0	0
cyantraniliprole	whole	0.01	0.05	70	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	125	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	125	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	125	0	0
deltamethrin	whole	0.01	2	125	0	0
diafenthion	whole	0.01	not set	125	–	0
diazinon	whole	0.01	0.1	125	0	0
dichlorvos	whole	0.01	0.01	125	0	0
dicofol	whole	0.01	not set	125	–	0
diflubenzuron	whole	0.01	not set	125	–	0
dimethoate	whole	0.01	0.5	125	0	0
disulfoton	whole	0.01	not set	125	–	0
esfenvalerate	whole	0.01	2	86	0	0
ethion	whole	0.01	not set	125	0	0
ethoprophos	whole	0.005	0.005	125	0	0
etoxazole	whole	0.01	not set	125	–	0
fenamiphos	whole	0.01	not set	125	–	0
fenbutatin oxide	whole	0.01	not set	125	–	0
fenitrothion	whole	0.01	10	125	0	0
fenoxycarb	whole	0.01	not set	125	–	0
fenpyroximate	whole	0.01	not set	125	–	0
fenthion	whole	0.01	not set	125	–	0
fenvalerate (sum of isomers)	whole	0.01	2	125	0	0
fipronil	whole	0.002	not set	125	–	0
flonicamid	whole	0.01	not set	70	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
hexythiazox	whole	0.01	not set	125	–	0
imidacloprid	whole	0.01	0.05	125	0	0
indoxacarb	whole	0.01	not set	125	–	0
malathion (maldison)	whole	0.01	8	125	0	0
methacrifos	whole	0.01	not set	125	–	0
methamidophos	whole	0.01	not set	125	–	0
methidathion	whole	0.01	not set	125	–	0
methiocarb	whole	0.01	not set	125	–	0
methomyl	whole	0.01	0.1	125	0	0
methoprene	whole	0.01	2	125	0	0
methoxychlor	whole	0.01	not set	125	–	0
methoxyfenozide	whole	0.01	not set	125	–	0
mevinphos	whole	0.01	not set	125	–	0
monocrotophos	whole	0.01	not set	125	–	0
omethoate	whole	0.01	0.05	125	0	0
parathion	whole	0.01	not set	125	–	0
parathion-methyl	whole	0.01	not set	125	–	0
permethrin (sum of isomers)	whole	0.01	2	125	0	0
phenothrin (sum of isomers)	whole	0.01	2	125	0	0
phorate	whole	0.01	not set	125	–	0
phosmet	whole	0.01	0.05	125	0	0
piperonyl butoxide	whole	0.01	20	125	0	0
pirimicarb	whole	0.01	0.02	125	0	0
pirimiphos-methyl	whole	0.01	10	125	0	0
profenofos	whole	0.01	not set	125	–	0
propargite	whole	0.01	not set	125	–	0
prothiofos	whole	0.01	not set	125	–	0
pymetrozine	whole	0.01	not set	125	–	0
pyrethrins	whole	0.01	3	125	0	0
pyriproxyfen	whole	0.01	not set	125	–	0
spinetoram	whole	0.01	not set	125	–	0
spinosad	whole	0.01	1	125	0	0
spirotetramat	whole	0.01	not set	125	0	0
sulfoxaflor	whole	0.01	0.01	125	0	0
tau-fluvalinate	whole	0.01	not set	125	–	0
tebufenozide	whole	0.01	not set	125	–	0
tebufenpyrad	whole	0.01	not set	125	–	0
terbufos	whole	0.01	0.01	125	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
tetradifon	whole	0.01	not set	125	–	0
thiacloprid	whole	0.01	not set	125	–	0
thiamethoxam	whole	0.01	0.01	125	0	0
thiodicarb	whole	0.01	not set	125	–	0
triazofos	whole	0.01	not set	125	–	0
trichlorfon	whole	0.01	0.1	125	0	0
triflumuron	whole	0.01	0.05	125	0	0
abamectin	whole	0.01	not set	125	–	0
emamectin	whole	0.01	0.01	125	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	125	0	0
chlordane	whole	0.01	0.02	125	0	0
DDT	whole	0.01	0.1	125	0	0
endosulfan	whole	0.01	not set	125	–	0
endrin	whole	0.01	not set	125	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	125	0	0
HCH (BHC)	whole	0.01	0.1	125	0	0
heptachlor	whole	0.01	0.02	125	0	0
lindane (gamma-HCH)	whole	0.01	0.5	125	0	0
mirex	whole	0.01	not set	125	–	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	70	0	0