



Wheat (durum) 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	113	0	0
benalaxyl	whole	0.01	not set	113	–	0
bitertanol	whole	0.01	not set	113	–	0
bixafen	whole	0.01	0.01	113	0	0
boscalid	whole	0.01	0.5	113	0	0
bupirimate	whole	0.01	not set	113	–	0
captafol	whole	0.02	not set	113	–	0
captan	whole	0.01	not set	113	–	0
carbendazim	whole	0.01	not set	113	–	0
carboxin	whole	0.01	0.1	113	0	0

Wheat durum 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	113	–	0
cyproconazole	whole	0.01	0.02	113	0	0
cyprodinil	whole	0.01	not set	113	–	0
difenoconazole	whole	0.01	0.01	113	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	113	–	0
dithianon	whole	0.01	not set	113	–	0
dodine	whole	0.01	not set	113	–	0
epoxiconazole	whole	0.01	0.05	113	0	0
etridiazole	whole	0.01	not set	113	–	0
fenarimol	whole	0.01	not set	113	–	0
fenbuconazole	whole	0.01	0.01	113	0	0
fenhexamid	whole	0.01	not set	113	–	0
fluazinam	whole	0.01	not set	113	–	0
fludioxonil	whole	0.01	not set	113	–	0
fluquinconazole	whole	0.01	0.02	113	0	0
flusilazole	whole	0.01	not set	113	–	0
flutriafol	whole	0.01	0.1	113	0	0
fluxapyroxad	whole	0.01	0.1	113	0	0
hexaconazole	whole	0.01	not set	113	–	0
imazalil	whole	0.01	not set	113	–	0
ipconazole	whole	0.01	0.01	113	0	0
iprodione	whole	0.01	not set	113	–	0
isoprothiolane	whole	0.01	not set	113	–	0
kresoxim-methyl	whole	0.01	not set	113	–	0
metalaxyl	whole	0.01	0.01	113	0	0
myclobutanil	whole	0.01	not set	113	–	0
oxadixyl	whole	0.01	not set	113	–	0
penconazole	whole	0.01	not set	113	–	0
penflufen	whole	0.01	0.01	113	0	0
prochloraz	whole	0.01	not set	113	–	0
procymidone	whole	0.01	not set	113	–	0
propiconazole	whole	0.01	0.05	113	0	0
prothioconazole	whole	0.01	0.3	113	0	0
pyraclostrobin	whole	0.01	0.01	113	0	0
pyrimethanil	whole	0.01	not set	113	–	0
quinoxifen	whole	0.01	not set	113	–	0
sedaxane	whole	0.01	0.01	113	0	0
spiroxamine	whole	0.01	not set	113	–	0
tebuconazole	whole	0.01	0.2	113	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	113	–	0
tolclofos methyl	whole	0.01	not set	113	–	0
triadimefon	whole	0.01	0.5	113	0	0
triadimenol	whole	0.01	0.01	113	0	0
trifloxystrobin	whole	0.01	not set	113	–	0
triticonazole	whole	0.01	0.05	113	0	0
vinclozolin	whole	0.01	not set	113	–	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	113	0	0
2,4-D	whole	0.01	0.2	113	0	0
2,4-DB	whole	0.01	0.02	113	0	0
acifluorfen	whole	0.01	not set	107	–	0
ametryn	whole	0.01	not set	107	–	0
aminopyralid	whole	0.01	0.1	113	0	0
amitrole	whole	0.01	0.01	25	0	0
atrazine	whole	0.01	not set	113	–	0
bentazone	whole	0.01	not set	113	–	0
bicyclopyrone	whole	0.01	0.02	107	0	0
bromacil	whole	0.01	not set	113	–	0
bromoxynil	whole	0.01	0.2	113	0	0
butroxydim	whole	0.01	not set	113	–	0
carfentrazone-ethyl	whole	0.01	0.05	113	0	0
chlormequat	whole	0.01	5	25	0	0
chlorpropham	whole	0.01	not set	113	–	0
chlorsulfuron	whole	0.01	0.05	113	0	0
chlorthal-dimethyl	whole	0.01	not set	113	–	0
clethodim (parent only)	whole	0.01	0.1	113	0	0
clodinafop acid	whole	0.01	0.1	107	0	0
clodinafop-propargyl	whole	0.01	0.05	113	0	0
clomazone	whole	0.01	not set	107	–	0
clopyralid	whole	0.01	2	113	0	0
cloquintocet-mexyl	whole	0.01	0.1	107	0	0
cyanazine	whole	0.01	0.01	113	0	0
dicamba	whole	0.01	0.05	113	0	0
dichlobenil	whole	0.01	not set	113	–	0
dichlorprop	whole	0.01	not set	25	–	0

Wheat durum 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	25	0	0
diflufenican	whole	0.01	0.02	113	0	0
dimethenamid	whole	0.01	not set	107	–	0
diquat	whole	0.01	2	25	0	0
diuron	whole	0.01	0.1	113	0	0
EPTC	whole	0.01	0.04	90	0	0
EPTC (ethylidipropylthiocarbamate)	whole	0.01	not set	17	–	0
ethofumesate	whole	0.01	not set	113	–	0
fenoxaprop-ethyl	whole	0.01	0.01	113	0	0
flamprop-M-methyl	whole	0.01	0.05	25	0	0
florasulam	whole	0.01	0.01	107	0	0
fluazifop-p-butyl	whole	0.01	not set	25	–	0
flumetsulam	whole	0.01	0.05	113	0	0
flumioxazin	whole	0.01	0.05	113	0	0
fluroxypyr	whole	0.01	0.2	113	0	0
glufosinate	whole	0.01	not set	25	–	0
glyphosate	whole	0.01	5	25	0	0
halauxifen-methyl	whole	0.01	0.01	107	0	0
halosulfuron-methyl	whole	0.01	not set	107	–	0
haloxyfop	whole	0.01	not set	25	–	0
iodosulfuron-methyl	whole	0.01	0.01	113	0	0
ioxynil	whole	0.01	not set	113	–	0
isoxaben	whole	0.01	0.01	113	0	0
isoxaflutole	whole	0.01	0.02	107	0	0
linuron	whole	0.01	0.05	113	0	0
MCPA	whole	0.01	0.02	113	0	0
MCPB	whole	0.01	0.02	107	0	0
mefenpyr-diethyl	whole	0.01	0.01	107	0	0
metazachlor	whole	0.01	0.03	107	0	0
methabenzthiazuron	whole	0.01	not set	113	–	0
metolachlor	whole	0.01	0.02	113	0	0
metosulam	whole	0.01	0.02	113	0	0
metribuzin	whole	0.01	0.05	113	0	0
metsulfuron-methyl	whole	0.01	0.02	113	0	0
napropamide	whole	0.01	not set	113	–	0
norflurazon	whole	0.01	not set	113	–	0
oryzalin	whole	0.01	0.01	113	0	0
oxyfluorfen	whole	0.01	0.05	113	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
paraquat	whole	0.01	0.05	25	0	0
pendimethalin	whole	0.01	0.05	113	0	0
picloram	whole	0.01	0.2	113	0	0
picolinafen	whole	0.01	0.02	107	0	0
pinoxaden (parent)	whole	0.01	0.1	107	0	0
prometryn	whole	0.01	0.1	107	0	0
propachlor	whole	0.01	0.05	113	0	0
propaquizafop	whole	0.01	not set	25	–	0
propyzamide	whole	0.01	not set	113	–	0
prosulfocarb	whole	0.01	0.01	107	0	0
pyraflufen-ethyl	whole	0.01	0.02	107	0	0
pyrasulfotole	whole	0.01	0.02	107	0	0
pyroxasulfone	whole	0.01	0.01	107	0	0
pyroxulam	whole	0.01	0.01	107	0	0
quizalofop-ethyl	whole	0.01	not set	25	–	0
quizalofop-P-tefuryl	whole	0.01	not set	25	–	0
saflufenacil	whole	0.01	0.2	113	0	0
sethoxydim	whole	0.01	0.1	113	0	0
simazine	whole	0.01	not set	113	–	0
sulfosulfuron	whole	0.01	0.01	107	0	0
terbuthylazine	whole	0.01	0.01	107	0	0
terbutryn	whole	0.01	0.1	113	0	0
tralkoxydim	whole	0.01	0.02	113	0	0
trallate	whole	0.01	0.05	113	0	0
triasulfuron	whole	0.01	0.02	113	0	0
tribenuron-methyl	whole	0.01	0.01	107	0	0
triclopyr	whole	0.01	not set	113	–	0
trifluralin	whole	0.01	0.05	113	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	113	–	0
acetamiprid	whole	0.01	not set	113	–	0
aldicarb	whole	0.01	not set	113	–	0
amitraz	whole	0.01	not set	113	–	0
azamethiphos	whole	0.01	0.1	113	0	0
azinphos-methyl	whole	0.01	not set	113	–	0
bifenazate	whole	0.01	not set	113	–	0

Wheat durum residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
bifenthrin	whole	0.01	0.02	113	0	0
bioresmethrin	whole	0.01	not set	113	–	0
buprofezin	whole	0.01	0.01	113	0	0
cadusafos	whole	0.01	not set	113	–	0
carbaryl	whole	0.01	5	113	0	0
carbofuran	whole	0.01	not set	113	–	0
chlorantraniliprole	whole	0.01	0.1	113	0	0
chlorfenapyr	whole	0.01	not set	113	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	113	0	0
chlorpyrifos	whole	0.01	0.1	113	0	0
chlorpyrifos-methyl	whole	0.01	10	113	0	0
clofentezine	whole	0.01	not set	113	–	0
clothianidin	whole	0.01	0.02	113	0	0
cyantraniliprole	whole	0.01	0.05	107	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	113	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.05	113	0	0
cypermethrin (sum of isomers)	whole	0.01	0.2	113	0	0
deltamethrin	whole	0.01	2	113	0	0
diafenthion	whole	0.01	not set	113	–	0
diazinon	whole	0.01	0.1	113	0	0
dichlorvos	whole	0.01	0.01	113	0	0
dicofol	whole	0.01	not set	113	–	0
diflubenzuron	whole	0.01	not set	113	–	0
dimethoate	whole	0.01	0.5	113	0	0
disulfoton	whole	0.01	not set	113	–	0
esfenvalerate	whole	0.01	2	51	0	0
ethion	whole	0.01	not set	113	–	0
ethoprophos	whole	0.005	0.005	113	0	0
etoxazole	whole	0.01	not set	113	–	0
fenamiphos	whole	0.01	not set	113	–	0
fenbutatin oxide	whole	0.01	not set	113	–	0
fenitrothion	whole	0.01	10	113	0	0
fenoxycarb	whole	0.01	not set	113	–	0
fenpyroximate	whole	0.01	not set	113	–	0
fenthion	whole	0.01	not set	113	–	0
fenvalerate (sum of isomers)	whole	0.01	2	113	0	0
fipronil	whole	0.002	not set	113	–	0

Wheat durum residue testing annual datasets 2020–21

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flonicamid	whole	0.01	not set	107	–	0
hexythiazox	whole	0.01	not set	113	–	0
imidacloprid	whole	0.01	0.05	113	0	0
indoxacarb	whole	0.01	not set	113	–	0
malathion (maldison)	whole	0.01	8	113	0	0
methacrifos	whole	0.01	not set	113	–	0
methamidophos	whole	0.01	not set	113	–	0
methidathion	whole	0.01	not set	113	–	0
methiocarb	whole	0.01	not set	113	–	0
methomyl	whole	0.01	0.1	113	0	0
methoprene	whole	0.01	2	113	0	0
methoxychlor	whole	0.01	not set	113	–	0
methoxyfenozide	whole	0.01	not set	113	–	0
mevinphos	whole	0.01	not set	113	–	0
monocrotophos	whole	0.01	not set	113	–	0
omethoate	whole	0.01	0.05	113	0	0
parathion	whole	0.01	not set	113	–	0
parathion-methyl	whole	0.01	not set	113	–	0
permethrin (sum of isomers)	whole	0.01	2	113	0	0
phenothrin (sum of isomers)	whole	0.01	2	113	0	0
phorate	whole	0.01	not set	113	–	0
phosmet	whole	0.01	0.05	113	0	0
piperonyl butoxide	whole	0.01	20	113	0	0
pirimicarb	whole	0.01	0.02	113	0	0
pirimiphos-methyl	whole	0.01	10	113	0	0
profenofos	whole	0.01	not set	113	–	0
propargite	whole	0.01	not set	113	–	0
prothiofos	whole	0.01	not set	113	–	0
pymetrozine	whole	0.01	not set	113	–	0
pyrethrins	whole	0.01	3	113	0	0
pyriproxyfen	whole	0.01	not set	113	–	0
spinetoram	whole	0.01	not set	113	–	0
spinosad	whole	0.01	1	113	0	0
spirotetramat	whole	0.01	not set	113	–	0
sulfoxaflor	whole	0.01	0.01	113	0	0
tau-fluvalinate	whole	0.01	not set	113	–	0
tebufenozide	whole	0.01	not set	113	–	0
tebufenpyrad	whole	0.01	not set	113	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
terbufos	whole	0.01	0.01	113	0	0
tetradifon	whole	0.01	not set	113	–	0
thiacloprid	whole	0.01	not set	113	–	0
thiamethoxam	whole	0.01	0.01	113	0	0
thiodicarb	whole	0.01	not set	113	–	0
triazofos	whole	0.01	not set	113	–	0
trichlorfon	whole	0.01	0.1	113	0	0
triflumuron	whole	0.01	0.05	113	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	113	0	0
chlordane	whole	0.01	0.02	113	0	0
DDT	whole	0.01	0.1	113	0	0
endosulfan	whole	0.01	not set	113	–	0
endrin	whole	0.01	not set	113	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	113	0	0
HCH (BHC)	whole	0.01	0.1	113	0	0
heptachlor	whole	0.01	0.02	113	0	0
lindane (gamma-HCH)	whole	0.01	0.5	113	0	0
mirex	whole	0.01	not set	113	–	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	107	0	0