



Oat 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	0.1	232	0	0
benalaxyl	whole	0.01	not set	232	–	0
bitertanol	whole	0.01	not set	232	–	0
bixafen	whole	0.01	0.01	232	0	0
boscalid	whole	0.01	0.5	232	0	0
bupirimate	whole	0.01	not set	232	–	0
captafol	whole	0.02	not set	232	–	0
captan	whole	0.01	not set	232	–	0
carbendazim	whole	0.01	not set	232	–	0
carboxin	whole	0.01	0.1	232	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorothalonil	whole	0.01	not set	232	–	0
cyproconazole	whole	0.01	0.05	232	0	0
cyprodinil	whole	0.01	not set	232	–	0
difenoconazole	whole	0.01	0.01	232	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	232	0	0
dithianon	whole	0.01	not set	232	–	0
dodine	whole	0.01	not set	232	–	0
epoxiconazole	whole	0.01	0.05	232	0	0
etridiazole	whole	0.01	not set	232	–	0
fenarimol	whole	0.01	not set	232	–	0
fenbuconazole	whole	0.01	not set	232	–	0
fenhexamid	whole	0.01	not set	232	–	0
fluazinam	whole	0.01	not set	232	–	0
fludioxonil	whole	0.01	not set	232	–	0
fluquinconazole	whole	0.01	not set	232	–	0
flusilazole	whole	0.01	not set	232	–	0
flutriafol	whole	0.01	0.1	232	0	0
fluxapyroxad	whole	0.01	0.2	232	0	0
hexaconazole	whole	0.01	not set	232	–	0
imazalil	whole	0.01	not set	232	–	0
ipconazole	whole	0.01	0.01	232	0	0
iprodione	whole	0.01	not set	232	–	0
isoprothiolane	whole	0.01	not set	232	–	0
kresoxim-methyl	whole	0.01	not set	232	–	0
metalaxyl	whole	0.01	0.01	232	0	0
myclobutanil	whole	0.01	not set	232	–	0
oxadixyl	whole	0.01	not set	232	–	0
penconazole	whole	0.01	not set	232	–	0
penflufen	whole	0.01	0.01	232	0	0
prochloraz	whole	0.01	not set	232	–	0
procymidone	whole	0.01	not set	232	–	0
propiconazole	whole	0.01	0.05	232	0	0
prothioconazole	whole	0.01	0.3	232	0	0
pyraclostrobin	whole	0.01	0.01	232	0	0
pyrimethanil	whole	0.01	not set	232	–	0
quinoxifen	whole	0.01	not set	232	–	0
sedaxane	whole	0.01	0.01	232	0	0
spiroxamine	whole	0.01	not set	232	–	0
tebuconazole	whole	0.01	0.2	232	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	232	–	0
tolclofos methyl	whole	0.01	not set	232	–	0
triadimefon	whole	0.01	0.5	232	0	0
triadimenol	whole	0.01	0.01	232	0	0
trifloxystrobin	whole	0.01	not set	232	–	0
triticonazole	whole	0.01	0.05	232	0	0
vinclozolin	whole	0.01	not set	232	–	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	232	0	0
2,4-D	whole	0.01	0.2	232	0	0
2,4-DB	whole	0.01	0.02	232	0	0
acifluorfen	whole	0.01	not set	132	–	0
ametryn	whole	0.01	not set	132	–	0
aminopyralid	whole	0.01	0.1	232	0	0
amitrole	whole	0.01	0.01	84	0	0
atrazine	whole	0.01	not set	232	–	0
bentazone	whole	0.01	not set	232	–	0
bicyclopyrone	whole	0.01	not set	132	–	0
bromacil	whole	0.01	not set	232	–	0
bromoxynil	whole	0.01	0.2	232	0	0
butroxydim	whole	0.01	not set	232	–	0
carfentrazone-ethyl	whole	0.01	0.05	232	0	0
chlormequat	whole	0.01	not set	84	–	0
chlorpropham	whole	0.01	not set	232	–	0
chlorsulfuron	whole	0.01	0.05	232	0	0
chlorthal-dimethyl	whole	0.01	not set	232	–	0
clethodim (parent only)	whole	0.01	not set	232	–	0
clodinafop acid	whole	0.01	not set	132	–	0
clodinafop-propargyl	whole	0.01	not set	232	–	0
clomazone	whole	0.01	not set	132	–	0
clopyralid	whole	0.01	2	232	0	0
cloquintocet-mexyl	whole	0.01	0.1	132	0	0
cyanazine	whole	0.01	0.01	232	0	0
dicamba	whole	0.01	0.05	232	0	0
dichlobenil	whole	0.01	not set	232	–	0
dichlorprop	whole	0.01	not set	84	–	0

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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	84	0	0
diflufenican	whole	0.01	0.05	232	0	0
dimethenamid	whole	0.01	not set	132	–	0
diquat	whole	0.01	5	84	0	0
diuron	whole	0.01	0.1	232	0	0
EPTC	whole	0.01	0.04	127	0	0
EPTC (ethylpropylthiocarbamate)	whole	0.01	not set	5	–	0
ethofumesate	whole	0.01	not set	232	–	0
fenoxaprop-ethyl	whole	0.01	not set	232	–	0
flamprop-M-methyl	whole	0.01	not set	84	–	0
florasulam	whole	0.01	0.01	132	0	0
fluazifop-p-butyl	whole	0.01	not set	84	–	0
flumetsulam	whole	0.01	0.05	232	0	0
flumioxazin	whole	0.01	0.05	232	0	0
fluroxypyr	whole	0.01	0.2	232	0	0
glufosinate	whole	0.01	not set	84	–	0
glyphosate	whole	0.01	0.1	84	1	0
halauxifen-methyl	whole	0.01	0.01	132	0	0
halosulfuron-methyl	whole	0.01	not set	132	–	0
haloxyfop	whole	0.01	not set	84	–	0
imazamox	whole	0.01	not set	33	–	0
imazapic	whole	0.01	not set	33	–	0
imazapyr	whole	0.01	not set	33	–	0
imazaquin	whole	0.01	not set	33	–	0
imazethapyr	whole	0.01	not set	33	–	0
iodosulfuron-methyl	whole	0.01	not set	232	–	0
ioxynil	whole	0.01	not set	232	–	0
isoxaben	whole	0.01	not set	232	–	0
isoxaflutole	whole	0.01	0.02	132	0	0
linuron	whole	0.01	0.05	232	0	0
MCPA	whole	0.01	0.02	232	0	0
MCPB	whole	0.01	0.02	132	0	0
mefenpyr-diethyl	whole	0.01	0.01	132	0	0
metazachlor	whole	0.01	0.03	132	0	0
methabenzthiazuron	whole	0.01	not set	232	–	0
metolachlor	whole	0.01	0.02	232	0	0
metosulam	whole	0.01	0.02	232	0	0
metribuzin	whole	0.01	0.05	232	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
metsulfuron-methyl	whole	0.01	0.02	232	0	0
napropamide	whole	0.01	not set	232	–	0
norflurazon	whole	0.01	not set	232	–	0
oryzalin	whole	0.01	0.01	232	0	0
oxyfluorfen	whole	0.01	0.05	232	0	0
paraquat	whole	0.01	0.05	84	0	0
pendimethalin	whole	0.01	not set	232	–	0
picloram	whole	0.01	0.2	232	0	0
picolinafen	whole	0.01	0.02	132	0	0
pinoxaden (parent)	whole	0.01	not set	132	–	0
prometryn	whole	0.01	0.1	132	0	0
propachlor	whole	0.01	0.05	232	0	0
propaquizafop	whole	0.01	not set	84	–	0
propyzamide	whole	0.01	not set	232	–	0
prosulfocarb	whole	0.01	not set	132	–	0
pyraflufen-ethyl	whole	0.01	0.02	132	0	0
pyrasulfotole	whole	0.01	0.02	132	0	0
pyroxasulfone	whole	0.01	0.01	132	0	0
pyroxsulam	whole	0.01	not set	132	–	0
quizalofop-ethyl	whole	0.01	not set	84	–	0
quizalofop-P-tefuryl	whole	0.01	not set	84	–	0
saflufenacil	whole	0.01	0.2	232	0	0
sethoxydim	whole	0.01	not set	232	–	0
simazine	whole	0.01	not set	232	–	0
sulfosulfuron	whole	0.01	not set	132	–	0
terbuthylazine	whole	0.01	0.01	132	0	0
terbutryn	whole	0.01	0.1	232	0	0
tralkoxydim	whole	0.01	0.02	232	0	0
triallate	whole	0.01	0.05	232	0	0
triasulfuron	whole	0.01	0.02	232	0	0
tribenuron-methyl	whole	0.01	0.01	132	0	0
triclopyr	whole	0.01	not set	232	–	0
trifluralin	whole	0.01	0.05	232	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	232	–	0
acephate	whole	0.01	not set	232	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
acetamiprid	whole	0.01	not set	232	–	0
aldicarb	whole	0.01	not set	232	–	0
amitraz	whole	0.01	not set	232	–	0
azamethiphos	whole	0.01	0.1	232	0	0
azinphos-methyl	whole	0.01	not set	232	–	0
bifenazate	whole	0.01	not set	232	–	0
bifenthrin	whole	0.01	0.02	232	0	0
bioresmethrin	whole	0.01	not set	232	–	0
buprofezin	whole	0.01	0.01	232	0	0
cadusafos	whole	0.01	not set	232	0	0
carbaryl	whole	0.01	5	232	0	0
carbofuran	whole	0.01	not set	232	–	0
chlorantraniliprole	whole	0.01	0.1	232	0	0
chlorfenapyr	whole	0.01	not set	232	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	232	–	0
chlorpyrifos	whole	0.01	0.1	232	0	0
chlorpyrifos-methyl	whole	0.01	10	232	0	0
clofentezine	whole	0.01	not set	232	–	0
clothianidin	whole	0.01	0.02	232	0	0
cyantraniliprole	whole	0.01	0.05	132	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	232	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.01	232	0	0
cypermethrin (sum of isomers)	whole	0.01	1	232	0	0
deltamethrin	whole	0.01	2	232	0	0
diafenthiuron	whole	0.01	not set	232	–	0
diazinon	whole	0.01	0.1	232	0	0
dichlorvos	whole	0.01	0.01	232	0	0
dicofol	whole	0.01	not set	232	–	0
diflubenzuron	whole	0.01	not set	232	–	0
dimethoate	whole	0.01	0.5	232	0	0
disulfoton	whole	0.01	not set	232	–	0
emamectin	whole	0.01	not set	232	–	0
esfenvalerate	whole	0.01	2	149	0	0
ethion	whole	0.01	not set	232	–	0
ethoprophos	whole	0.005	0.005	232	0	0
etoxazole	whole	0.01	not set	232	–	0
fenamiphos	whole	0.01	not set	232	–	0
fenbutatin oxide	whole	0.01	not set	232	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
fenitrothion	whole	0.01	10	232	0	0
fenoxycarb	whole	0.01	not set	232	–	0
fenpyroximate	whole	0.01	not set	232	–	0
fenthion	whole	0.01	not set	232	–	0
fenvalerate (sum of isomers)	whole	0.01	2	232	0	0
fipronil	whole	0.002	not set	232	–	0
flonicamid	whole	0.01	not set	132	–	0
hexythiazox	whole	0.01	not set	232	–	0
imidacloprid	whole	0.01	0.05	232	1	1
indoxacarb	whole	0.01	not set	232	–	0
malathion (maldison)	whole	0.01	8	232	0	0
methacrifos	whole	0.01	not set	232	–	0
methamidophos	whole	0.01	not set	232	–	0
methidathion	whole	0.01	not set	232	–	0
methiocarb	whole	0.01	not set	232	–	0
methomyl	whole	0.01	0.1	232	0	0
methoprene	whole	0.01	2	232	0	0
methoxychlor	whole	0.01	not set	232	–	0
methoxyfenozide	whole	0.01	not set	232	–	0
mevinphos	whole	0.01	not set	232	–	0
monocrotophos	whole	0.01	not set	232	–	0
omethoate	whole	0.01	0.05	232	0	0
parathion	whole	0.01	not set	232	–	0
parathion-methyl	whole	0.01	not set	232	–	0
permethrin (sum of isomers)	whole	0.01	2	232	0	0
phenothrin (sum of isomers)	whole	0.01	not set	232	–	0
phorate	whole	0.01	not set	232	–	0
phosmet	whole	0.01	0.05	232	0	0
piperonyl butoxide	whole	0.01	20	232	0	0
pirimicarb	whole	0.01	0.02	232	0	0
pirimiphos-methyl	whole	0.01	7	232	0	0
profenofos	whole	0.01	not set	232	–	0
propargite	whole	0.01	not set	232	–	0
prothiofos	whole	0.01	not set	232	–	0
pymetrozine	whole	0.01	not set	232	–	0
pyrethrins	whole	0.01	3	232	0	0
pyriproxyfen	whole	0.01	not set	232	–	0
spinetoram	whole	0.01	not set	232	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
spinosad	whole	0.01	1	232	0	0
spirotetramat	whole	0.01	not set	232	–	0
sulfoxaflor	whole	0.01	0.01	232	0	0
tau-fluvalinate	whole	0.01	not set	232	–	0
tebufenozide	whole	0.01	not set	232	–	0
tebufenpyrad	whole	0.01	not set	232	–	0
terbufos	whole	0.01	0.01	232	0	0
tetradifon	whole	0.01	not set	232	–	0
thiacloprid	whole	0.01	not set	232	–	0
thiamethoxam	whole	0.01	0.01	232	0	0
thiodicarb	whole	0.01	not set	232	–	0
triazofos	whole	0.01	not set	232	–	0
trichlorfon	whole	0.01	0.1	232	0	0
triflumuron	whole	0.01	0.05	232	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	232	0	0
chlordane	whole	0.01	0.02	232	0	0
DDT	whole	0.01	0.1	232	0	0
endosulfan	whole	0.01	not set	232	–	0
endrin	whole	0.01	not set	232	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	232	0	0
HCH (BHC)	whole	0.01	0.1	232	0	0
heptachlor	whole	0.01	0.02	232	0	0
lindane (gamma-HCH)	whole	0.01	0.5	232	0	0
mirex	whole	0.01	not set	232	–	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	132	0	0