Australian Government
Department of Agriculture, Water and the Environment

Ovine residue testing annual datasets 2020–21

National Residue Survey (NRS), 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, retina 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.

Disclaimer

Table 1: Anthelmintics

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
abamectin	fat	0.005	0.05	390	0	0	0
albendazole	liver	0.001	3	389	0	0	0
clorsulon	liver	0.08	not set	389	0	0	0
closantel	liver	0.05	5	389	3	0	0
derquantel	fat	0.001	0.0002	390	0	0	0
doramectin	fat	0.005	0.1	390	0	0	0
emamectin	fat	0.002	0.01	390	0	1	0
eprinomectin B1a	fat	0.005	not set	390	0	0	0
fenbendazole	liver	0.001	0.5	389	17	0	0
fenbendazole sulfone	liver	0.001	no limit	389	3	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
flubendazole	liver	0.001	not set	35	0	0	0
fluensulfone	fat	0.01	0.01	790	0	0	0
ivermectin H2B1a	fat	0.005	0.02	390	0	0	0
levamisole	liver	0.001	1	389	48	0	0
mebendazole	liver	0.005	0.02	389	0	0	0
mebendazole, 5-hydroxy-	liver	0.005	not set	389	0	0	0
milbemectin	fat	0.01	0.002	390	0	0	0
monepantel sulphone	fat	0.005	7	390	0	0	0
morantel	liver	0.001	2	389	0	0	0
moxidectin	fat	0.005	0.5	390	88	2	0
nitroxynil	liver	0.012	1	389	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	389	38	0	0
oxibendazole	liver	0.001	not set	389	0	0	0
oxyclozanide	liver	0.005	2	389	0	0	0
parbendazole	liver	0.001	not set	35	0	0	0
praziquantel	fat	0.005	0.05	390	0	0	0
rafoxanide	liver	0.01	not set	35	0	0	0
thiabendazole	liver	0.006	0.2	389	0	0	0
triclabendazole	liver	0.05	2	391	0	0	0

Table 2: Antibiotics

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
AHD	retina	0.02	not defined	53	0	–	–
amoxicillin	kidney	0.01	0.01	432	0	0	0
AMOZ	retina	0.02	not defined	53	0	–	–
ampicillin	kidney	0.01	not set	432	0	0	0
AOZ	retina	0.02	not defined	53	0	–	–
apramycin	kidney	0.25	2	432	0	0	0
avilamycin	kidney	0.1	not set	432	0	0	0
benzyl G penicillin	kidney	0.01	0.06	432	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.2	not set	432	0	0	0
cefuroxime	kidney	0.05	not set	432	0	0	0
cephalonium	kidney	0.05	not set	432	0	0	0
chloramphenicol	muscle	0.0003	not set	349	0	0	0
chlortetracycline	kidney	0.01	not set	432	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
ciprofloxacin	kidney	0.005	not set	54	0	0	0
cloxacillin	kidney	0.05	not set	432	0	0	0
danofloxacin	kidney	0.005	not set	54	0	0	0
difloxacin	kidney	0.005	not set	54	0	0	0
dihydrostreptomycin	kidney	0.1	0.3	432	0	0	0
doxycycline	kidney	0.01	not set	432	0	0	0
enrofloxacin	kidney	0.005	not set	54	0	0	0
erythromycin	kidney	0.1	0.3	432	0	0	0
florfenicol	muscle	0.001	not set	349	0	0	0
flumequine	kidney	0.005	not set	54	0	0	0
gatifloxacin	kidney	0.005	not set	54	0	0	0
gentamycin	kidney	0.1	not set	432	0	0	0
levofloxacin	kidney	0.005	not set	54	0	0	0
lincomycin	kidney	0.1	not set	432	0	0	0
lomefloxacin	kidney	0.005	not set	54	0	0	0
marbofloxacin	kidney	0.005	not set	54	0	0	0
moxifloxacin	kidney	0.005	not set	54	0	0	0
nalidixic acid	kidney	0.005	not set	54	0	0	0
neomycin	kidney	0.1	10	432	0	0	0
norfloxacin	kidney	0.005	not set	54	0	0	0
oleandomycin	kidney	0.2	0.1	432	0	0	0
orbifloxacin	kidney	0.005	not set	54	0	0	0
oxolinic acid	kidney	0.005	not set	54	0	0	0
oxytetracycline	kidney	0.01	0.6	432	4	0	0
sarafloxacin	kidney	0.005	not set	54	0	0	0
SEM	retina	0.02	not defined	53	0	–	–
streptomycin	kidney	0.1	0.3	432	0	0	0
sulfachloropyridazine	kidney	0.05	not set	432	0	0	0
sulfadiazine	kidney	0.05	0.1	432	0	0	0
sulfadimethoxine	kidney	0.05	not set	432	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.05	0.1	432	0	0	0
sulfadoxine	kidney	0.05	0.1	432	0	0	0
sulfafurazole	kidney	0.05	not set	432	0	0	0
sulfamerazine	kidney	0.05	not set	432	0	0	0
sulfamethoxazole	kidney	0.05	not set	432	0	0	0
sulfamethoxydiazine (sulfameter)	kidney	0.05	not set	432	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	432	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
sulfapyridine	kidney	0.05	not set	432	0	0	0
sulfaquinoxaline	kidney	0.05	not set	432	0	0	0
sulfathiazole	kidney	0.05	not set	432	0	0	0
sulfatroxazole	kidney	0.05	0.1	432	0	0	0
tetracycline	kidney	0.01	not set	432	0	0	0
thiamphenicol	muscle	0.001	not set	349	0	0	0
tilmicosin	kidney	0.2	not set	432	0	0	0
trimethoprim	kidney	0.05	0.05	432	0	0	0
tulathromycin	kidney	0.3	not set	432	0	0	0
tylosin	kidney	0.1	not set	432	0	0	0
virginiamycin	kidney	0.005	0.2	432	0	0	0

Table 3: Anticoccidials

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amprolium	liver	0.01	not set	347	0	0	0
decoquinate	liver	0.002	not set	347	0	0	0
diclazuril	liver	0.01	not set	347	0	0	0
halofuginone	liver	0.01	not set	347	0	0	0
lasalocid	liver	0.01	0.7	347	0	0	0
maduramicin	liver	0.002	not set	347	0	0	0
monensin	liver	0.01	0.2	347	1	0	0
narasin	liver	0.01	not set	347	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	liver	0.01	not set	347	0	0	0
salinomycin	liver	0.002	not set	347	0	0	0
semduramycin	liver	0.002	not set	347	0	0	0
toltrazuril	liver	0.01	not set	347	0	0	0

Table 4: Contaminants

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
aldrin and dieldrin (HHDN+HEOD)	fat	0.02	0.2	790	0	0	0
arochlor 1254	fat	0.03	0.2	790	0	0	0
arochlor 1260	fat	0.03	0.2	790	0	0	0
chlordane	fat	0.02	0.2	790	0	0	0
DDT	fat	0.05	5	790	3	0	0
endosulfan	fat	0.02	not set	790	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
endrin	fat	0.01	not set	790	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	790	0	0	0
HCH (BHC)	fat	0.02	0.3	790	0	0	0
heptachlor	fat	0.02	0.2	790	0	0	0
lindane (gamma-HCH)	fat	0.01	2	790	0	0	0
mirex	fat	0.02	not set	790	0	0	0
pentachlorobenzene	fat	0.02	not set	790	0	0	0

Table 5: Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amisulbrom	fat	0.01	0.01	790	0	0	0
azoxystrobin	fat	0.01	0.02	790	0	0	0
bixafen	fat	0.02	0.2	790	0	0	0
boscalid	fat	0.01	0.3	790	0	0	0
carbendazim	fat	0.01	0.2	790	0	0	0
cyproconazole	fat	0.02	0.03	790	0	0	0
difenoconazole	fat	0.01	0.05	790	0	0	0
epoxiconazole	fat	0.01	0.01	790	0	0	0
fenpyrazamine	fat	0.01	0.01	790	0	0	0
fludioxonil	fat	0.01	0.05	790	0	0	0
fluopicolide	fat	0.01	0.01	790	0	0	0
fluopyram	fat	0.01	0.7	790	0	0	0
fluquinconazole	fat	0.01	0.5	790	1	0	0
flutriafol	fat	0.02	0.05	790	0	0	0
fluxapyroxad	fat	0.01	0.05	790	0	0	0
imazalil	fat	0.01	not set	790	0	0	0
isopyrazam	fat	0.01	0.005	790	0	0	0
mandestrobin	fat	0.01	0.02	790	0	0	0
procymidone	fat	0.02	0.2	790	0	0	0
propamocarb	fat	0.01	0.01	790	0	0	0
propiconazole	fat	0.02	0.1	790	0	0	0
prothioconazole	fat	0.02	0.02	790	0	0	0
pydiflumetofen	fat	0.01	not set	790	0	0	0
pyraclostrobin	fat	0.01	0.05	790	0	0	0
pyrimethanil	fat	0.01	0.05	790	0	0	0
pyriofenone	fat	0.01	0.01	790	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
quinoxyfen	fat	0.01	0.1	790	0	0	0
quintozene	fat	0.02	0.2	790	0	0	0
spiroxamine	fat	0.01	0.05	790	0	0	0
tebuconazole	fat	0.01	0.1	790	0	0	0
trifloxystrobin	fat	0.01	0.05	790	0	0	0

Table 6: Herbicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
amicarbazone	fat	0.01	0.01	790	0	0	0
cloquintocet-mexyl	fat	0.01	0.1	790	0	0	0
ethofumesate	fat	0.02	0.5	790	0	0	0
florpyrauxifen-benzyl	fat	0.01	0.02	790	0	0	0
indaziflam	fat	0.01	not set	790	0	0	0
metamitron	fat	0.01	0.05	790	0	0	0
metazachlor	fat	0.01	0.05	790	0	0	0
metolachlor	fat	0.02	0.05	790	0	0	0
propachlor	fat	0.02	0.02	790	0	0	0
pyrasulfotole	fat	0.01	0.01	790	0	0	0
pyroxsulam	fat	0.01	0.01	790	0	0	0
saflufenacil	fat	0.01	0.01	790	0	0	0
topramezone	fat	0.01	0.01	790	0	0	0

Table 7: Hormones

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
16-hydroxystanozolol	urine	0.001	not defined	348	0	–	–
betamethasone	liver	0.001	not set	11	0	0	0
boldenone 17-alpha	urine	0.001	not defined	348	0	–	–
boldenone 17-beta	urine	0.001	not defined	348	0	–	–
dexamethasone	liver	0.001	not set	11	0	0	0
dienoestrol	liver	0.0002	not set	391	0	0	0
diethylstilboestrol	liver	0.0002	not set	391	0	0	0
flumethasone	liver	0.001	not set	11	0	0	0
hexoestrol	liver	0.0002	not set	391	0	0	0
methandriol	urine	0.005	not defined	348	0	–	–

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
methylprednisolone	liver	0.001	not set	11	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	348	0	–	–
nortestosterone 17-beta	urine	0.001	not defined	348	0	–	–
stanozolol	urine	0.001	not defined	348	0	–	–
trenbolone	liver	0.0005	not set	391	0	0	0
triamcinolone	liver	0.001	not set	11	0	0	0
triamcinolone acetonide	liver	0.001	not set	11	0	0	0
zeranol (alpha-zearalanol)	liver	0.002	not set	391	0	0	0

Table 8: Insecticides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
acetamiprid	fat	0.01	0.01	790	0	0	0
afidopyropen	fat	0.012	0.1	790	0	0	0
bifenthrin	fat	0.02	2	790	0	0	0
bioresmethrin	fat	0.02	not set	790	0	0	0
carbaryl	fat	0.01	0.07	790	0	0	0
chlorantraniliprole	fat	0.01	0.02	790	0	0	0
chlorfenapyr	fat	0.02	0.05	790	0	0	0
chlorfenvinphos (sum of isomers)	fat	0.02	0.2	790	0	0	0
chlorfluazuron	fat	0.01	not set	390	0	0	0
chlorpyrifos	fat	0.01	0.5	790	0	0	0
chlorpyrifos-methyl	fat	0.01	0.05	790	0	0	1
clothianidin	fat	0.01	0.02	790	0	0	0
coumaphos	fat	0.02	not set	790	0	0	0
cyantraniliprole	fat	0.01	0.01	790	0	0	0
cyclaniliprole	fat	0.01	0.01	790	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.5	790	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.5	790	0	0	0
cypermethrin (sum of isomers)	fat	0.02	0.5	790	4	0	0
cyromazine	kidney	0.01	0.2	391	0	0	0
deltamethrin	fat	0.02	0.2	790	0	0	0
diafenthiuron	fat	0.01	0.02	790	0	0	0
diazinon	fat	0.02	0.7	790	1	0	0
dichlorvos	fat	0.02	0.01	790	0	0	0
dicofol	fat	0.01	not set	790	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
dicyclanil	kidney	0.01	0.3	391	0	0	0
diflubenzuron	fat	0.01	0.05	390	0	0	0
dimethoate	fat	0.02	0.05	790	0	0	0
dinotefuran	fat	0.03	0.02	790	0	0	0
esfenvalerate	fat	0.02	1	546	0	0	0
ethion	fat	0.02	not set	790	0	0	0
famphur	fat	0.02	not set	790	0	0	0
famphur oxygen-analogue	fat	0.02	not set	790	0	0	0
fenitrothion	fat	0.02	0.05	790	0	0	0
fenthion	fat	0.02	not set	790	0	0	0
fenvalerate (sum of isomers)	fat	0.02	1	790	0	0	0
fipronil	fat	0.01	0.1	790	0	0	1
flonicamid	fat	0.01	0.02	790	0	0	0
fluazuron	fat	0.01	not set	390	0	0	0
flubendiamide	fat	0.01	0.05	790	0	0	0
flumethrin	fat	0.02	not set	790	0	0	0
flupyradifurone	fat	0.01	not set	790	0	0	0
imidacloprid	fat	0.01	0.05	790	0	0	0
indoxacarb	fat	0.02	3	790	0	0	0
malathion (maldison)	fat	0.01	1	790	0	0	0
melamine	kidney	0.01	2.5	391	0	0	0
metaflumizone	fat	0.01	not set	790	0	0	0
methidathion	fat	0.02	not set	790	0	0	0
methoxychlor	fat	0.02	not set	790	0	0	0
mevinphos	fat	0.01	0.05	790	0	0	0
novaluron	fat	0.01	0.1	390	0	0	0
omethoate	fat	0.02	0.05	790	0	0	0
parathion-methyl	fat	0.02	not set	790	0	0	0
permethrin (sum of isomers)	fat	0.02	1	790	0	0	0
phosmet	fat	0.02	0.05	790	0	0	0
pirimiphos-methyl	fat	0.02	0.05	790	0	0	0
prothiofos	fat	0.01	not set	790	0	0	0
pyraclofos	fat	0.02	0.5	790	0	0	0
spinetoram	fat	0.005	2	390	0	0	0
spinosad	fat	0.005	2	390	24	0	0
spirotetramat	fat	0.02	0.02	790	0	0	0
sulfoxaflor	fat	0.01	0.2	790	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
tau-fluvalinate	fat	0.01	not set	790	0	0	0
temephos	fat	0.02	3	790	3	0	0
triflumuron	fat	0.01	2	390	0	0	0

Table 9: Metals

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
antimony	liver	0.01	no limit	347	0	0	0
arsenic (total)	liver	0.05	no limit	347	0	0	0
cadmium	liver	0.01	1.25	347	310	13	2
lead	liver	0.01	0.5	347	259	3	0
mercury (total)	liver	0.01	no limit	347	10	0	0

Table 10: Mycotoxins

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
taleranol (beta-zearalanol)	liver	0.002	no limit	391	0	0	0
zearalanone	liver	0.002	no limit	391	0	0	0
zearalenol alpha	liver	0.002	no limit	391	4	0	0
zearalenol beta	liver	0.002	no limit	391	5	0	0
zearalenone	liver	0.002	no limit	391	0	0	0

Table 11: Other Veterinary Drugs

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
cimaterol	liver	0.0003	not set	391	0	0	0
clenbuterol	liver	0.0003	not set	391	0	0	0
flunixin	kidney	0.01	not set	347	0	0	0
ketoprofen	kidney	0.01	not set	347	0	0	0
mabuterol	liver	0.0003	not set	391	0	0	0
meloxicam	kidney	0.005	0.01	347	0	0	0
oxyphenbutazone	kidney	0.005	not set	347	0	0	0
phenylbutazone	kidney	0.005	not set	347	0	0	0
ractopamine	liver	0.0003	not set	391	0	0	0
salbutamol	liver	0.001	not set	391	0	0	0
tolfenamic acid	kidney	0.005	not set	347	0	0	0
zilpaterol	liver	0.0003	not set	391	0	0	0