Australian Government
Department of Agriculture, Water and the Environment

Ovine residue testing annual datasets 2019–20

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	371	1	0	0
albendazole	liver	0.001	3	371	2	0	0
clorsulon	liver	0.08	not set	371	0	0	0
closantel	liver	0.05	5	371	6	0	0
derquantel	fat	0.001	0.0002	371	0	0	0
doramectin	fat	0.005	0.1	371	0	0	0
emamectin	fat	0.002	0.01	371	0	0	0
eprinomectin B1a	fat	0.005	not set	371	0	0	0
fenbendazole	liver	0.001	0.5	371	28	0	0
fluensulfone	fat	0.01	0.01	137	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
ivermectin H2B1a	fat	0.005	0.02	371	0	0	0
levamisole	liver	0.001	1	371	26	0	0
mebendazole	liver	0.005	0.02	371	0	0	0
mebendazole, 5-hydroxy-	liver	0.005	not set	371	0	0	0
milbemectin	fat	0.01	0.002	371	0	0	0
monepantel sulphone	fat	0.005	7	371	0	0	0
morantel	liver	0.001	2	371	0	0	0
moxidectin	fat	0.005	0.5	371	70	4	0
nitroxynil	liver	0.012	1	371	0	0	0
oxfendazole (fenbendazole sulfoxide)	liver	0.001	3	371	46	0	0
oxibendazole	liver	0.001	not set	371	0	0	0
oxyclozanide	liver	0.005	2	371	0	0	0
praziquantel	fat	0.005	0.05	371	0	0	0
thiabendazole	liver	0.006	0.2	371	0	0	0
triclabendazole	liver	0.05	2	373	1	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 x 2	0.02	not defined	51	0	–	–
amoxicillin	kidney	0.01	0.01	409	0	0	0
AMOZ	retina x 2	0.02	not defined	51	0	–	–
ampicillin	kidney	0.01	not set	409	0	0	0
AOZ	retina x 2	0.02	not defined	51	0	–	–
apramycin	kidney	0.25	2	409	0	0	0
avilamycin	kidney	0.1	not set	409	0	0	0
benzyl G penicillin	kidney	0.01	0.06	409	0	0	0
ceftiofur (desfuroylceftiofur)	kidney	0.2	not set	409	0	0	0
cefuroxime	kidney	0.05	not set	409	0	0	0
cephalonium	kidney	0.05	not set	409	0	0	0
chloramphenicol	muscle	0.0003	not set	330	0	0	0
chlortetracycline	kidney	0.01	not set	409	0	0	0
ciprofloxacin	kidney	0.005	not set	50	0	0	0
cloxacillin	kidney	0.05	not set	409	0	0	0
danofloxacin	kidney	0.005	not set	50	0	0	0
difloxacin	kidney	0.005	not set	50	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
dihydrostreptomycin	kidney	0.1	0.3	409	0	0	0
doxycycline	kidney	0.01	not set	409	0	0	0
enrofloxacin	kidney	0.005	not set	50	0	0	0
erythromycin	kidney	0.1	0.3	409	0	0	0
florfenicol	muscle	0.001	not set	330	0	0	0
flumequine	kidney	0.005	not set	50	0	0	0
gatifloxacin	kidney	0.005	not set	50	0	0	0
gentamycin	kidney	0.1	not set	409	0	0	0
levofloxacin	kidney	0.005	not set	50	0	0	0
lincomycin	kidney	0.1	not set	409	0	0	0
lomefloxacin	kidney	0.005	not set	50	0	0	0
marbofloxacin	kidney	0.005	not set	50	0	0	0
moxifloxacin	kidney	0.005	not set	50	0	0	0
nalidixic acid	kidney	0.005	not set	50	0	0	0
neomycin	kidney	0.1	10	409	0	0	0
norfloxacin	kidney	0.005	not set	50	0	0	0
oleandomycin	kidney	0.2	0.1	409	0	0	0
orbifloxacin	kidney	0.005	not set	50	0	0	0
oxolinic acid	kidney	0.005	not set	50	0	0	0
oxytetracycline	kidney	0.01	0.6	409	0	0	0
sarafloxacin	kidney	0.005	not set	50	0	0	0
SEM	retina x 2	0.02	not defined	51	0	–	–
streptomycin	kidney	0.1	0.3	409	0	0	0
sulfachloropyridazine	kidney	0.05	not set	409	0	0	0
sulfadiazine	kidney	0.05	0.1	409	0	0	0
sulfadimethoxine	kidney	0.05	not set	409	0	0	0
sulfadimidine (sulfamethazine)	kidney	0.05	0.1	409	0	0	0
sulfadoxine	kidney	0.05	0.1	409	0	0	0
sulfafurazole	kidney	0.05	not set	409	0	0	0
sulfamerazine	kidney	0.05	not set	409	0	0	0
sulfamethoxazole	kidney	0.05	not set	409	0	0	0
sulfamethoxydiazine (sulfameter)	kidney	0.05	not set	409	0	0	0
sulfamethoxypyridazine	kidney	0.05	not set	409	0	0	0
sulfapyridine	kidney	0.05	not set	409	0	0	0
sulfaquinoxaline	kidney	0.05	not set	409	0	0	0
sulfathiazole	kidney	0.05	not set	409	0	0	0
sulfatroxazole	kidney	0.05	0.1	409	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
tetracycline	kidney	0.01	not set	409	0	0	0
thiamphenicol	muscle	0.001	not set	330	0	0	0
tilmicosin	kidney	0.2	not set	409	0	0	0
trimethoprim	kidney	0.05	0.05	409	0	0	0
tulathromycin	kidney	0.3	not set	409	0	0	0
tylosin	kidney	0.1	not set	409	0	0	0
virginiamycin	kidney	0.1	0.2	409	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	332	0	0	0
decoquinate	liver	0.002	not set	332	0	0	0
diclazuril	liver	0.01	not set	332	0	0	0
halofuginone	liver	0.01	not set	332	0	0	0
lasalocid	liver	0.01	0.7	332	2	0	0
maduramicin	liver	0.002	not set	332	0	0	0
monensin	liver	0.01	0.2	332	1	0	0
narasin	liver	0.01	not set	332	0	0	0
nicarbazin (4,4'-dinitrocarbanilide)	liver	0.01	0.01	332	0	0	0
salinomycin	liver	0.002	not set	332	0	0	0
semduramycin	liver	0.002	not set	332	0	0	0
toltrazuril	liver	0.01	not set	332	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	751	1	0	0
arochlor 1254	fat	0.03	0.2	751	0	0	0
arochlor 1260	fat	0.03	0.2	751	0	0	0
chlordane	fat	0.02	0.2	751	0	0	0
DDT	fat	0.05	5	751	6	0	0
endosulfan	fat	0.02	not set	751	0	0	0
endrin	fat	0.01	not set	751	0	0	0
HCB (hexachlorobenzene)	fat	0.02	1	751	0	0	0
HCH (BHC)	fat	0.02	0.3	751	0	0	0
heptachlor	fat	0.02	0.2	751	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
lindane (gamma-HCH)	fat	0.01	2	751	0	0	0
mirex	fat	0.02	not set	751	0	0	0
pentachlorobenzene	fat	0.02	not set	751	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	751	0	0	0
azoxystrobin	fat	0.01	0.02	137	0	0	0
bixafen	fat	0.02	0.2	751	0	0	0
boscalid	fat	0.01	0.3	751	0	0	0
carbendazim	fat	0.01	0.2	751	0	0	0
cyproconazole	fat	0.02	0.03	751	0	0	0
difenoconazole	fat	0.01	0.05	751	0	0	0
epoxiconazole	fat	0.01	0.01	137	0	0	0
fenpyrazamine	fat	0.01	0.01	137	0	0	0
fludioxonil	fat	0.01	0.05	751	0	0	0
fluopicolide	fat	0.01	0.01	751	0	0	0
fluopyram	fat	0.01	0.1	751	0	0	0
fluquinconazole	fat	0.01	0.5	751	0	0	0
flutriafol	fat	0.02	0.5	751	0	0	0
fluxapyroxad	fat	0.01	0.05	751	0	0	0
imazalil	fat	0.01	not set	751	0	0	0
isopyrazam	fat	0.01	0.01	137	0	0	0
mandestrobin	fat	0.01	0.02	751	0	0	0
procymidone	fat	0.02	0.2	751	0	0	0
propamocarb	fat	0.01	0.01	751	0	0	0
propiconazole	fat	0.02	0.1	751	0	0	0
prothioconazole	fat	0.02	0.02	751	0	0	0
pydiflumetofen	fat	0.01	0.01	137	0	0	0
pyraclostrobin	fat	0.01	0.05	137	0	0	0
pyrimethanil	fat	0.01	0.05	751	0	0	0
pyriofenone	fat	0.01	0.01	751	0	0	0
quinoxyfen	fat	0.01	0.1	751	0	0	0
quintozene	fat	0.02	0.2	751	0	0	0
spiroxamine	fat	0.01	0.05	137	0	0	0
tebuconazole	fat	0.01	0.1	751	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
trifloxystrobin	fat	0.01	0.05	751	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	137	0	0	0
cloquintocet	fat	0.01	0.1	751	0	0	0
ethofumesate	fat	0.02	0.5	751	0	0	0
florpyrauxifen-benzyl	fat	0.01	0.02	137	0	0	0
indaziflam	fat	0.01	not set	751	0	0	0
metamitron	fat	0.01	0.05	137	0	0	0
metazachlor	fat	0.01	0.05	751	0	0	0
metolachlor	fat	0.02	0.05	751	0	0	0
propachlor	fat	0.02	0.02	751	0	0	0
pyrasulfotole	fat	0.01	0.01	751	0	0	0
pyroxsulam	fat	0.01	0.01	751	0	0	0
saflufenacil	fat	0.01	0.01	751	0	0	0
topramezone	fat	0.01	0.01	137	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	330	0	–	–
betamethasone	liver	0.001	not set	10	0	0	0
boldenone 17-alpha	urine	0.001	not defined	330	5	–	–
boldenone 17-beta	urine	0.001	not defined	330	4	–	–
dexamethasone	liver	0.001	not set	10	0	0	0
dienoestrol	liver	0.0002	not set	332	0	0	0
diethylstilboestrol	liver	0.0002	not set	332	0	0	0
flumethasone	liver	0.001	not set	10	0	0	0
hexoestrol	liver	0.0002	not set	332	0	0	0
methandriol	urine	0.005	not defined	330	0	–	–
methylprednisolone	liver	0.001	not set	10	0	0	0
nortestosterone 17-alpha	urine	0.001	not defined	330	9	–	–
nortestosterone 17-beta	urine	0.001	not defined	330	0	–	–
stanozolol	urine	0.001	not defined	330	0	–	–

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
trenbolone	liver	0.0005	not set	332	0	0	0
triamcinolone	liver	0.001	not set	10	0	0	0
triamcinolone acetonide	liver	0.001	not set	10	0	0	0
zeranol (alpha-zearalanol)	liver	0.002	not set	332	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	751	0	0	0
afidopyropen	fat	0.012	0.1	137	0	0	0
bifenthrin	fat	0.02	2	751	2	0	0
bioresmethrin	fat	0.02	not set	751	0	0	0
carbaryl	fat	0.01	0.07	751	0	0	0
chlorantraniliprole	fat	0.01	0.02	751	0	0	0
chlorfenapyr	fat	0.02	0.05	751	0	0	0
chlorfenvinphos (sum of isomers)	fat	0.02	0.2	751	0	0	0
chlorfluazuron	fat	0.01	not set	371	0	0	0
chlorpyrifos	fat	0.01	0.5	751	1	0	0
chlorpyrifos-methyl	fat	0.01	0.05	751	1	1	0
clothianidin	fat	0.01	0.02	751	0	0	0
coumaphos	fat	0.02	not set	751	0	0	0
cyantraniliprole	fat	0.01	0.01	751	0	0	0
cyclaniliprole	fat	0.01	0.01	137	0	0	0
cyfluthrin (sum of isomers)	fat	0.02	0.5	751	0	0	0
cyhalothrin (sum of isomers)	fat	0.02	0.5	751	0	0	0
cypermethrin (sum of isomers)	fat	0.02	0.5	751	3	0	0
cyromazine	kidney	0.01	0.2	370	0	0	0
deltamethrin	fat	0.02	0.2	751	0	0	0
diafenthiuron	fat	0.01	0.02	751	0	0	0
diazinon	fat	0.02	0.7	751	0	0	0
dichlorvos	fat	0.02	0.01	751	0	0	0
dicofol	fat	0.01	not set	751	0	0	0
dicyclanil	kidney	0.01	0.3	370	0	0	0
diflubenzuron	fat	0.01	0.05	371	0	0	0
dimethoate	fat	0.02	0.05	751	0	0	0
dinotefuran	fat	0.03	0.02	751	0	0	0
esfenvalerate	fat	0.02	1	751	0	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	Number of samples tested	>LOR to ≤½MRL	>½MRL to ≤MRL	>MRL
ethion	fat	0.02	not set	751	0	0	0
famphur	fat	0.02	not set	751	0	0	0
famphur oxygen-analogue	fat	0.02	not set	751	0	0	0
fenitrothion	fat	0.02	0.05	751	0	0	0
fenthion	fat	0.02	not set	751	0	0	0
fenvalerate (sum of isomers)	fat	0.02	1	751	0	0	0
fipronil	fat	0.02	0.1	751	0	0	0
flonicamid	fat	0.01	0.02	751	0	0	0
fluazuron	fat	0.01	not set	371	0	0	0
flubendiamide	fat	0.01	0.05	751	0	0	0
flumethrin	fat	0.02	not set	751	0	0	0
flupyradifurone	fat	0.01	not set	137	0	0	0
imidacloprid	fat	0.01	0.05	751	0	0	0
indoxacarb	fat	0.02	3	751	0	0	0
malathion (maldison)	fat	0.01	1	751	0	0	0
melamine	kidney	0.01	no limit	370	0	0	0
metaflumizone	fat	0.01	not set	751	0	0	0
methidathion	fat	0.02	0.5	751	0	0	0
methoxychlor	fat	0.02	not set	751	0	0	0
mevinphos	fat	0.01	0.05	751	0	0	0
novaluron	fat	0.01	not set	371	0	0	0
omethoate	fat	0.02	0.05	751	0	0	0
parathion-methyl	fat	0.02	not set	751	0	0	0
permethrin (sum of isomers)	fat	0.02	1	751	1	0	0
phosmet	fat	0.02	0.05	751	0	0	0
pirimiphos-methyl	fat	0.02	0.05	751	0	0	0
prothiofos	fat	0.01	not set	751	0	0	0
pyraclofos	fat	0.02	0.5	751	0	0	0
spinetoram	fat	0.005	2	371	0	0	0
spinosad	fat	0.005	2	371	22	0	0
spirotetramat	fat	0.02	0.02	751	0	0	0
sulfoxaflor	fat	0.01	0.2	751	0	0	0
tau-fluvalinate	fat	0.01	not set	751	0	0	0
temephos	fat	0.02	3	751	1	0	0
triflumuron	fat	0.01	2	371	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	332	0	0	0
arsenic (total)	liver	0.05	no limit	332	0	0	0
cadmium	liver	0.01	1.25	332	311	8	3
lead	liver	0.01	0.5	332	270	4	3
mercury (total)	liver	0.01	no limit	332	18	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	332	0	0	0
zearalanone	liver	0.002	no limit	332	0	0	0
zearalenol alpha	liver	0.002	no limit	332	8	0	0
zearalenol beta	liver	0.002	no limit	332	8	0	0
zearalenone	liver	0.002	no limit	332	1	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	332	0	0	0
clenbuterol	liver	0.0003	not set	332	0	0	0
flunixin	kidney	0.01	not set	329	0	0	0
ketoprofen	kidney	0.01	not set	329	0	0	0
mabuterol	liver	0.0003	not set	332	0	0	0
meloxicam	kidney	0.005	0.01	329	0	0	0
oxyphenbutazone	kidney	0.005	not set	329	0	0	0
phenylbutazone	kidney	0.005	not set	329	0	0	0
ractopamine	liver	0.0003	not set	332	0	0	0
salbutamol	liver	0.001	not set	332	0	0	0
tolfenamic acid	kidney	0.005	not set	329	0	0	0
zilpaterol	liver	0.0003	not set	332	0	0	0