# Aquaculture Rainbow Trout residue testing annual datasets 2017-18

National Residue Survey, Department of Agriculture and Water Resources

## 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

Although the Australian Government has exercised due care and skill in the preparation and compilation of this publication, it does not warrant its accuracy, completeness, currency or suitability for any purpose. To the maximum extent permitted by law, the Australian Government disclaims all liability, including liability in negligence for any loss, damage, cost or expense incurred by persons as a result of accessing, using or relying on any of the information or data set out in this publication. Before relying on the material in any matters, users should carefully evaluate its accuracy, currency, completeness and relevance for the purposes intended, and should obtain any appropriate professional advice relevant to their particular circumstances.

Table 1 Additives

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| brilliant green | flesh | 0.00022 | not set | 1 | 0 | 0 | 0 |
| crystal violet | flesh | 0.00014 | not set | 1 | 0 | 0 | 0 |
| leucocrystal violet | flesh | 0.00058 | not set | 1 | 0 | 0 | 0 |
| leucomalachite green | flesh | 0.00044 | not set | 1 | 0 | 0 | 0 |
| malachite green | flesh | 0.00025 | not set | 1 | 0 | 0 | 0 |
| methylene blue | flesh | 0.0011 | not set | 1 | 0 | 0 | 0 |
| victoria blue B | flesh | 0.00066 | not set | 1 | 0 | 0 | 0 |
| victoria blue R | flesh | 0.00025 | not set | 1 | 0 | 0 | 0 |
| victoria pure blue BO | flesh | 0.0011 | not set | 1 | 0 | 0 | 0 |

Table 2 Anthelmintics

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| abamectin | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| derquantel | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| doramectin | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| emamectin | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| eprinomectin B1a | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| ivermectin H2B1a | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| milbemectin | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| monepantel sulphone | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| moxidectin | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| praziquantel | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |

Table 3 Antibiotics

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| AHD | flesh | 0.0004 | not set | 3 | 0 | 0 | 0 |
| amoxicillin | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| AMOZ | flesh | 0.000077 | not set | 3 | 0 | 0 | 0 |
| ampicillin | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| AOZ | flesh | 0.000072 | not set | 3 | 0 | 0 | 0 |
| apramycin | flesh | 0.25 | not set | 1 | 0 | 0 | 0 |
| avilamycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| benzyl G penicillin | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| ceftiofur (desfuroylceftiofur) | flesh | 0.2 | not set | 1 | 0 | 0 | 0 |
| cefuroxime | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| cephalonium | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| chloramphenicol | flesh | 0.00027 | not set | 4 | 0 | 0 | 0 |
| chlortetracycline | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| ciprofloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| cloxacillin | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| danofloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| difloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| dihydrostreptomycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| dimetridazole | flesh | 0.000035 | not set | 2 | 0 | 0 | 0 |
| doxycycline | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| enrofloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| erythromycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| florfenicol | flesh | 0.003 | not set | 4 | 0 | 0 | 0 |
| flumequine | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| gatifloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| gentamycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| levofloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| lincomycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| lomefloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| marbofloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| metronidazole | flesh | 0.000046 | not set | 2 | 0 | 0 | 0 |
| moxifloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| nalidixic acid | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| neomycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| norfloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| oleandomycin | flesh | 0.2 | not set | 1 | 0 | 0 | 0 |
| orbifloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| oxolinic acid | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| oxytetracycline | flesh | 0.01 | 0.2 | 1 | 0 | 0 | 0 |
| ronidazole | flesh | 0.000055 | not set | 2 | 0 | 0 | 0 |
| sarafloxacin | flesh | 0.002 | not set | 1 | 0 | 0 | 0 |
| SEM | flesh | 0.00041 | not set | 3 | 0 | 0 | 0 |
| streptomycin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| sulfachloropyridazine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfadiazine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfadimethoxine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfadoxine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfafurazole | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfamerazine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfamethoxazole | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfamethoxypyridazine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfapyridine | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfaquinoxaline | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfathiazole | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| sulfatroxazole | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| tetracycline | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| thiamphenicol | flesh | 0.0029 | not set | 4 | 0 | 0 | 0 |
| tilmicosin | flesh | 0.2 | not set | 1 | 0 | 0 | 0 |
| trimethoprim | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| tulathromycin | flesh | 0.3 | not set | 1 | 0 | 0 | 0 |
| tylosin | flesh | 0.1 | not set | 1 | 0 | 0 | 0 |
| virginiamycin | flesh | 0.2 | not set | 1 | 0 | 0 | 0 |

Table 4 Contaminants

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| aldrin and dieldrin (HHDN+HEOD) | flesh | 0.02 | 0.1 | 1 | 0 | 0 | 0 |
| arochlor 1254 | flesh | 0.03 | 0.5 | 1 | 0 | 0 | 0 |
| arochlor 1260 | flesh | 0.03 | 0.5 | 1 | 0 | 0 | 0 |
| chlordane | flesh | 0.02 | 0.05 | 1 | 0 | 0 | 0 |
| DDT | flesh | 0.02 | 1 | 1 | 0 | 0 | 0 |
| endrin | flesh | 0.01 | not set | 1 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | flesh | 0.02 | 0.1 | 1 | 0 | 0 | 0 |
| HCH (BHC) | flesh | 0.02 | not set | 1 | 0 | 0 | 0 |
| heptachlor | flesh | 0.02 | 0.05 | 1 | 0 | 0 | 0 |
| lindane (gamma-HCH) | flesh | 0.02 | 1 | 1 | 0 | 0 | 0 |
| mirex | flesh | 0.05 | not set | 1 | 0 | 0 | 0 |
| toxaphene | flesh | 0.03 | not set | 1 | 0 | 0 | 0 |

Table 5 Hormones

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| boldenone 17-alpha | flesh | 0.00036 | not set | 1 | 0 | 0 | 0 |
| boldenone 17-beta | flesh | 0.00036 | not set | 1 | 0 | 0 | 0 |
| dienoestrol | flesh | 0.00009 | not set | 1 | 0 | 0 | 0 |
| diethylstilboestrol | flesh | 0.00009 | not set | 1 | 0 | 0 | 0 |
| hexoestrol | flesh | 0.00006 | not set | 1 | 0 | 0 | 0 |
| nortestosterone 17-alpha | flesh | 0.00036 | not set | 1 | 0 | 0 | 0 |
| nortestosterone 17-beta | flesh | 0.00036 | not set | 1 | 0 | 0 | 0 |
| trenbolone | flesh | 0.00075 | not set | 1 | 0 | 0 | 0 |

Table 6 Insecticides

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| spinetoram | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |
| spinosad | flesh | 0.005 | not set | 1 | 0 | 0 | 0 |

Table 7 Metals

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| antimony | flesh | 0.01 | no limit | 5 | 0 | 0 | 0 |
| arsenic (total) | flesh | 0.05 | no limit | 5 | 5 | 0 | 0 |
| cadmium | flesh | 0.01 | no limit | 5 | 0 | 0 | 0 |
| chromium | flesh | 0.05 | no limit | 5 | 0 | 0 | 0 |
| lead | flesh | 0.01 | 0.5 | 5 | 0 | 0 | 0 |
| mercury (total) | flesh | 0.01 | 1 | 5 | 1 | 0 | 0 |