

**Hen Eggs residue testing annual datasets 2022-23**

National Residue Survey (NRS), Department of Agriculture, Fisheries and Forestry **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.

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**Table 1: ANTIBIOTICS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤ 1/2 MRL** | **> ½ MRL to  ≤MRL** | **>MRL** |
| AHD | Whole | 0.0004 | not set | 25 | 0 | 0 | 0 |
| amoxicillin | Whole | 0.005 | 0.05 | 50 | 0 | 0 | 0 |
| AMOZ | Whole | 0.000077 | not set | 25 | 0 | 0 | 0 |
| ampicillin | Whole | 0.005 | not set | 50 | 0 | 0 | 0 |
| AOZ | Whole | 0.000072 | not set | 25 | 0 | 0 | 0 |
| apramycin | Whole | 0.025 | not set | 50 | 0 | 0 | 0 |
| avilamycin | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| benzyl G penicillin | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| ceftiofur (desfuroylceftiofur) | Whole | 0.1 | not set | 50 | 0 | 0 | 0 |
| cefuroxime | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| cephalonium | Whole | 0.005 | not set | 50 | 0 | 0 | 0 |
| chloramphenicol | Whole | 0.0001 | not set | 30 | 0 | 0 | 0 |
| chlortetracycline | Whole | 0.01 | 0.2 | 50 | 2 | 0 | 0 |
| cloxacillin | Whole | 0.005 | not set | 50 | 0 | 0 | 0 |
| dihydrostreptomycin | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| dimetridazole | Whole | 0.0001 | not set | 25 | 0 | 0 | 0 |
| doxycycline | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| erythromycin | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| florfenicol | Whole | 0.003 | not set | 30 | 0 | 0 | 0 |
| gentamycin | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| lincomycin | Whole | 0.05 | 0.2 | 50 | 0 | 0 | 0 |
| metronidazole | Whole | 0.0001 | not set | 25 | 0 | 0 | 0 |
| neomycin | Whole | 0.05 | 0.5 | 50 | 0 | 0 | 0 |
| oleandomycin | Whole | 0.001 | not set | 50 | 0 | 0 | 0 |
| oxytetracycline | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| ronidazole | Whole | 0.0001 | not set | 25 | 0 | 0 | 0 |
| SEM | Whole | 0.00041 | not set | 25 | 0 | 0 | 0 |
| streptomycin | Whole | 0.05 | not set | 50 | 0 | 0 | 0 |
| sulfachloropyridazine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadiazine | Whole | 0.01 | 0.02 | 50 | 0 | 0 | 0 |
| sulfadimethoxine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | Whole | 0.0025 | 0.005 | 50 | 0 | 0 | 0 |
| sulfadoxine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfafurazole | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamerazine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamethoxazole | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| sulfamethoxypyridazine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfapyridine | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfaquinoxaline | Whole | 0.005 | 0.01 | 50 | 0 | 0 | 0 |
| sulfathiazole | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| sulfatroxazole | Whole | 0.02 | not set | 50 | 0 | 0 | 0 |
| tetracycline | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| thiamphenicol | Whole | 0.0029 | not set | 30 | 0 | 0 | 0 |
| tilmicosin | Whole | 0.005 | not set | 50 | 0 | 0 | 0 |
| trimethoprim | Whole | 0.01 | 0.01 | 50 | 0 | 0 | 0 |
| tulathromycin | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| tylosin | Whole | 0.1 | 0.2 | 50 | 0 | 0 | 0 |
| virginiamycin | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |

\*In some instances, tetracycline may be present as an impurity in a chlortetracycline or oxytetracycline product and is not considered to be a violative residue

**Table 2: ANTICOCCIDIALS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤ 1/2 MRL** | **>½ MRLto  ≤MRL** | **>MRL** |
| amprolium | Whole | 0.01 | 4 | 50 | 0 | 0 | 0 |
| decoquinate | Whole | 0.002 | not set | 50 | 0 | 0 | 3 |
| diclazuril | Whole | 0.002 | not set | 50 | 0 | 0 | 0 |
| halofuginone | Whole | 0.002 | not set | 50 | 0 | 0 | 0 |
| lasalocid | Whole | 0.01 | 0.05 | 50 | 0 | 0 | 1 |
| maduramicin | Whole | 0.002 | not set | 50 | 0 | 0 | 0 |
| monensin | Whole | 0.01 | not set | 50 | 0 | 0 | 0 |
| narasin | Whole | 0.002 | not set | 50 | 0 | 0 | 0 |
| nicarbazin (4,4'-dinitrocarbanilide) | Whole | 0.01 | 0.3 | 50 | 1 | 0 | 0 |
| salinomycin | Whole | 0.002 | 0.02 | 50 | 0 | 0 | 0 |
| semduramycin | Whole | 0.002 | not set | 50 | 0 | 0 | 3 |
| toltrazuril | Whole | 0.01 | 0.03 | 50 | 0 | 0 | 0 |

**Table 3: CONTAMINANTS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤ 1/2 MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| acrylonitrile | Whole | 0.01 | 0.02 | 3 | 0 | 0 | 0 |
| aldrin and dieldrin (HHDN+HEOD) | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| arochlor 1254 | Whole | 0.03 | 0.2 | 60 | 0 | 0 | 0 |
| arochlor 1260 | Whole | 0.03 | 0.2 | 60 | 0 | 0 | 0 |
| chlordane | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| DDT | Whole | 0.01 | 0.5 | 60 | 0 | 0 | 0 |
| endosulfan | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| endrin | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | Whole | 0.01 | 1 | 60 | 0 | 0 | 0 |
| HCH (BHC) | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| heptachlor | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| lindane (gamma-HCH) | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| mirex | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| pentachlorobenzene | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| total indicator PCBs | Whole | 0.00005 | 0.2 | 3 | 0 | 0 | 0 |
| vinyl chloride | Whole | 0.005 | 0.01 | 3 | 0 | 0 | 0 |

**Table 4: FUNGICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤ 1/2 MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| amisulbrom | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| azoxystrobin | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| benzovindiflupyr | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| bixafen | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| boscalid | Whole | 0.01 | 0.5 | 60 | 0 | 0 | 0 |
| carbendazim | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| cyproconazole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| difenoconazole | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| epoxiconazole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fenhexamid | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| fenpyrazamine | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fludioxonil | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fluopicolide | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fluopyram | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| fluquinconazole | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| flutriafol | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| fluxapyroxad | Whole | 0.01 | 0.005 | 60 | 0 | 0 | 0 |
| imazalil | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| isofetamid | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| isopyrazam | Whole | 0.01 | 0.005 | 60 | 0 | 0 | 0 |
| mandestrobin | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| mefentrifluconazole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| procymidone | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| propamocarb | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| propiconazole | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| proquinazid | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| prothioconazole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| pydiflumetofen | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| pyraclostrobin | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| pyrimethanil | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| pyriofenone | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| quinoxyfen | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| quintozene | Whole | 0.01 | 0.03 | 60 | 0 | 0 | 0 |
| spiroxamine | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| tebuconazole | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| trifloxystrobin | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |

**Table 5: HERBICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤ ½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| amicarbazone | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| cinmethylin | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| cloquintocet-mexyl | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| ethofumesate | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| florpyrauxifen-benzyl | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| indaziflam | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| metamitron | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| metazachlor | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| metolachlor | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| propachlor | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| pyrasulfotole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| pyroxsulam | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| saflufenacil | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| topramezone | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| trifludimoxazin | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |

**Table 6: INSECTICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤ ½ MRL** | **>½ MRLto  ≤MRL** | **>MRL** |
| acequinocyl | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| acetamiprid | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| afidopyropen | Whole | 0.012 | 0.1 | 60 | 0 | 0 | 0 |
| bifenthrin | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| bioresmethrin | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| buprofezin | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| carbaryl | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| chlorantraniliprole | Whole | 0.01 | 0.03 | 60 | 0 | 0 | 0 |
| chlorfenapyr | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| chlorfenvinphos | Whole | 0.005 | not set | 60 | 0 | 0 | 0 |
| chlorpyrifos | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| chlorpyrifos-methyl | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| clothianidin | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| coumaphos | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| cyantraniliprole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| cyclaniliprole | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| cyfluthrin | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| cyhalothrin | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| cypermethrin | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| deltamethrin | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| diafenthiuron | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| diazinon | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| dichlorvos | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| dicofol | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| dimethoate | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| dinotefuran | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| ethion | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| etofenprox | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| famphur | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| famphur oxygen-analogue | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| fenitrothion | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| fenthion | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| fenvalerate | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| fipronil | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| flonicamid | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| flubendiamide | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fluensulfone | Whole | 0.02 | 0.01 | 60 | 0 | 0 | 0 |
| flumethrin | Whole | 0.05 | not set | 60 | 0 | 0 | 0 |
| flupyradifurone | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| fluralaner | Whole | 0.01 | 1.3 | 60 | 1 | 0 | 0 |
| imidacloprid | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| indoxacarb | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| malathion | Whole | 0.01 | 1 | 60 | 0 | 0 | 0 |
| metaflumizone | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| methidathion | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| methoxychlor | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| mevinphos | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| omethoate | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| parathion-methyl | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| permethrin | Whole | 0.01 | 0.1 | 60 | 0 | 0 | 0 |
| phosmet | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| pirimiphos-methyl | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| prothiofos | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| pyraclofos | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |
| pyriproxyfen | Whole | 0.01 | 0.05 | 60 | 0 | 0 | 0 |
| spirotetramat | Whole | 0.01 | 0.02 | 60 | 0 | 0 | 0 |
| sulfoxaflor | Whole | 0.01 | 0.01 | 60 | 0 | 0 | 0 |
| tau-fluvalinate | Whole | 0.02 | not set | 60 | 0 | 0 | 0 |
| temephos | Whole | 0.01 | not set | 60 | 0 | 0 | 0 |

**Table 7: METALS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **>LOR to  ≤½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| antimony | Whole | 0.01 | no limit | 18 | 2 | 0 | 0 |
| arsenic (total) | Whole | 0.05 | no limit | 18 | 0 | 0 | 0 |
| cadmium | Whole | 0.01 | no limit | 18 | 0 | 0 | 0 |
| lead | Whole | 0.01 | no limit | 18 | 1 | 0 | 0 |
| mercury (total) | Whole | 0.01 | no limit | 18 | 0 | 0 | 0 |

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