

**Kangaroo - Wild Game 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.

**Disclaimer**

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**Table 1: CONTAMINANTS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| aldrin and dieldrin (HHDN+HEOD) | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| arochlor 1254 | Fat | 0.03 | 0.2 | 25 | 0 | 0 | 0 |
| arochlor 1260 | Fat | 0.03 | 0.2 | 25 | 0 | 0 | 0 |
| chlordane | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| DDT | Fat | 0.05 | 5 | 25 | 0 | 0 | 0 |
| endosulfan | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| endrin | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | Fat | 0.02 | 1 | 25 | 0 | 0 | 0 |
| HCH (BHC) | Fat | 0.02 | 0.3 | 25 | 0 | 0 | 0 |
| heptachlor | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| lindane (gamma-HCH) | Fat | 0.01 | 2 | 25 | 0 | 0 | 0 |
| mirex | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| pentachlorobenzene | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |

**Table 2: FUNGICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| amisulbrom | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| azoxystrobin | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| benzovindiflupyr | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| bixafen | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| boscalid | Fat | 0.01 | 0.3 | 25 | 0 | 0 | 0 |
| carbendazim | Fat | 0.01 | 0.2 | 25 | 0 | 0 | 0 |
| cyproconazole | Fat | 0.02 | 0.03 | 25 | 0 | 0 | 0 |
| difenoconazole | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| epoxiconazole | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| fenhexamid | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| fenpyrazamine | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| fludioxonil | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| fluopicolide | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| fluopyram | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| fluquinconazole | Fat | 0.01 | 0.5 | 25 | 0 | 0 | 0 |
| flutriafol | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| fluxapyroxad | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| imazalil | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| isofetamid | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| isopyrazam | Fat | 0.01 | 0.005 | 25 | 0 | 0 | 0 |
| mandestrobin | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| mefentrifluconazole | Fat | 0.01 | 0.2 | 25 | 0 | 0 | 0 |
| procymidone | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| propamocarb | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| propiconazole | Fat | 0.02 | 0.1 | 25 | 0 | 0 | 0 |
| proquinazid | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| prothioconazole | Fat | 0.02 | 0.02 | 25 | 0 | 0 | 0 |
| pydiflumetofen | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| pyraclostrobin | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| pyrimethanil | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| pyriofenone | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| quinoxyfen | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| quintozene | Fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| spiroxamine | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| tebuconazole | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| trifloxystrobin | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |

**Table 3: HERBICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| amicarbazone | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| cinmethylin | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| cloquintocet-mexyl | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| ethofumesate | Fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| florpyrauxifen-benzyl | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| indaziflam | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| metamitron | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| metazachlor | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| metolachlor | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| propachlor | Fat | 0.02 | 0.02 | 25 | 0 | 0 | 0 |
| pyrasulfotole | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| pyroxsulam | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| saflufenacil | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| topramezone | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| trifludimoxazin | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |

**Table 4: INSECTICIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤1/2MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| acequinocyl | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| acetamiprid | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| afidopyropen | Fat | 0.012 | 0.1 | 25 | 0 | 0 | 0 |
| bifenthrin | Fat | 0.02 | 2 | 25 | 0 | 0 | 0 |
| bioresmethrin | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| buprofezin | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| carbaryl | Fat | 0.01 | 0.07 | 25 | 0 | 0 | 0 |
| chlorantraniliprole | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| chlorfenapyr | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| chlorfenvinphos | Fat | 0.005 | not set | 25 | 0 | 0 | 0 |
| chlorpyrifos | Fat | 0.01 | 0.5 | 25 | 0 | 0 | 0 |
| chlorpyrifos-methyl | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| clothianidin | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| coumaphos | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| cyantraniliprole | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| cyclaniliprole | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| cyfluthrin | Fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| cyhalothrin | Fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| cypermethrin | Fat | 0.02 | 0.01 | 25 | 0 | 0 | 0 |
| deltamethrin | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| diafenthiuron | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| diazinon | Fat | 0.02 | 0.7 | 25 | 0 | 0 | 0 |
| dichlorvos | Fat | 0.02 | 0.01 | 25 | 0 | 0 | 0 |
| dicofol | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| dimethoate | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| dinotefuran | Fat | 0.03 | 0.02 | 25 | 0 | 0 | 0 |
| ethion | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| etofenprox | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| famphur | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| famphur oxygen-analogue | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| fenitrothion | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| fenthion | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| fenvalerate | Fat | 0.02 | 1 | 25 | 0 | 0 | 0 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| fipronil | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| flonicamid | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| flubendiamide | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| fluensulfone | Fat | 0.01 | 0.01 | 25 | 0 | 0 | 0 |
| flumethrin | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| flupyradifurone | Fat | 0.01 | 0.1 | 25 | 0 | 0 | 0 |
| fluralaner | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| imidacloprid | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| indoxacarb | Fat | 0.02 | 3 | 25 | 0 | 0 | 0 |
| malathion | Fat | 0.01 | 1 | 25 | 0 | 0 | 0 |
| metaflumizone | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| methidathion | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| methoxychlor | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| mevinphos | Fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| omethoate | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| parathion-methyl | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| permethrin | Fat | 0.02 | 1 | 25 | 0 | 0 | 0 |
| phosmet | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| pirimiphos-methyl | Fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| prothiofos | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| pyraclofos | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| pyriproxyfen | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| spirotetramat | Fat | 0.01 | 0.02 | 25 | 0 | 0 | 0 |
| sulfoxaflor | Fat | 0.01 | 0.2 | 25 | 0 | 0 | 0 |
| tau-fluvalinate | Fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| temephos | Fat | 0.02 | not set | 25 | 0 | 0 | 0 |

**Table 5: METALS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of  samples tested** | **> LOR to  ≤½ MRL** | **>½ MRL to  ≤MRL** | **>MRL** |
| antimony | Liver | 0.01 | no limit | 25 | 0 | 0 | 0 |
| arsenic (total) | Liver | 0.05 | no limit | 25 | 4 | 0 | 0 |
| cadmium | Liver | 0.01 | no limit | 25 | 14 | 0 | 0 |
| lead | Liver | 0.01 | no limit | 25 | 20 | 0 | 0 |
| mercury (total) | Liver | 0.01 | no limit | 25 | 1 | 0 | 0 |

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