# Kangaroo residue testing annual datasets 2018–19

National Residue Survey, Department of Agriculture

## 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 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) | fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| arochlor 1254 | fat | 0.03 | not set | 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) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| amisulbrom | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| bixafen | fat | 0.02 | not set | 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 | not set | 9 | 0 | 0 | 0 |
| fludioxonil | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| fluopicolide | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| fluopyram-A | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| fluquinconazole | fat | 0.01 | 0.5 | 25 | 0 | 0 | 0 |
| flutriafol | fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| fluxapyroxad | fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| imazalil | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| mandestrobin | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| procymidone | fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| propamocarb | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| propiconazole | fat | 0.02 | 0.1 | 25 | 0 | 0 | 0 |
| prothioconazole | fat | 0.02 | 0.02 | 25 | 0 | 0 | 0 |
| pyrimethanil | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| pyriofenone | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| quinoxyfen | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| quintozene | fat | 0.02 | 0.2 | 25 | 0 | 0 | 0 |
| tebuconazole | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| trifloxystrobin | fat | 0.01 | not set | 9 | 0 | 0 | 0 |

Table 3 Herbicides

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| cloquintocet | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| ethofumesate | fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| indaziflam | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| metazachlor | fat | 0.01 | not set | 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 | not set | 9 | 0 | 0 | 0 |
| saflufenacil-A | fat | 0.01 | not set | 9 | 0 | 0 | 0 |

Table 4 Insecticides

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > LOR to ≤ ½ MRL | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- | --- |
| acetamiprid-A | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| bifenthrin | fat | 0.02 | 2 | 25 | 0 | 0 | 0 |
| bioresmethrin | fat | 0.02 | not set | 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 | 0.02 | not set | 25 | 0 | 0 | 0 |
| chlorpyrifos | fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| chlorpyrifos-methyl | fat | 0.02 | 0.05 | 25 | 0 | 0 | 0 |
| clothianidin | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| coumaphos | fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| cyantraniliprole | fat | 0.01 | not set | 9 | 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 | not set | 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 | not set | 25 | 0 | 0 | 0 |
| esfenvalerate | fat | 0.02 | 1 | 25 | 0 | 0 | 0 |
| ethion | fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| famphur | 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 |
| fipronil | fat | 0.02 | 0.1 | 25 | 0 | 0 | 0 |
| flonicamid-A | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| flubendiamide | fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| flumethrin | fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| imidacloprid | fat | 0.01 | 0.05 | 25 | 0 | 0 | 0 |
| indoxacarb | fat | 0.02 | 1 | 25 | 0 | 0 | 0 |
| malathion (maldison) | fat | 0.01 | 1 | 25 | 0 | 0 | 0 |
| metaflumizone | fat | 0.01 | not set | 9 | 0 | 0 | 0 |
| methidathion | fat | 0.02 | 0.5 | 25 | 0 | 0 | 0 |
| methoxychlor | fat | 0.02 | not set | 25 | 0 | 0 | 0 |
| mevinphos | fat | 0.01 | not set | 25 | 0 | 0 | 0 |
| omethoate | fat | 0.02 | not set | 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 |
| 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) | No. 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 | 5 | 0 | 0 |
| cadmium | liver | 0.01 | no limit | 25 | 13 | 0 | 0 |
| lead | liver | 0.01 | no limit | 25 | 21 | 0 | 0 |
| mercury (total) | liver | 0.01 | no limit | 25 | 1 | 0 | 0 |