# Honey residue testing annual datasets 2020–21

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.

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**Table 1: Antibiotics**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL(mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| AHD | honey | 0.0005 | not set | 10 | 0 | 0 | 0 |
| amoxicillin | honey | 0.01 | not set | 41 | 0 | 0 | 0 |
| AMOZ | honey | 0.0005 | not set | 10 | 0 | 0 | 0 |
| ampicillin | honey | 0.01 | not set | 41 | 0 | 0 | 0 |
| AOZ | honey | 0.0005 | not set | 10 | 0 | 0 | 0 |
| apramycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| benzyl G penicillin | honey | 0.01 | not set | 41 | 0 | 0 | 0 |
| ceftiofur (desfuroylceftiofur) | honey | 0.1 | not set | 41 | 0 | 0 | 0 |
| cefuroxime | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| cephalonium | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| chloramphenicol | honey | 0.0003 | not set | 10 | 0 | 0 | 0 |
| chlortetracycline | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| cloxacillin | honey | 0.01 | not set | 41 | 0 | 0 | 0 |
| dihydrostreptomycin | honey | 0.1 | not set | 41 | 0 | 0 | 0 |
| doxycycline | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| erythromycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| florfenicol | honey | 0.003 | not set | 10 | 0 | 0 | 0 |
| gentamycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| lincomycin | honey | 0.1 | not set | 41 | 0 | 0 | 0 |
| neomycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| norfloxacin | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| oleandomycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| oxytetracycline | honey | 0.02 | 0.3 | 41 | 1 | 0 | 0 |
| SEM | honey | 0.0005 | not set | 10 | 0 | 0 | 0 |
| streptomycin | honey | 0.1 | not set | 41 | 0 | 0 | 0 |
| sulfachloropyridazine | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfadiazine | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| sulfadimethoxine | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfadimidine (sulfamethazine) | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| sulfadoxine | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfafurazole  | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfamerazine | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfamethoxazole | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfamethoxydiazine (sulfameter) | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfamethoxypyridazine | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| sulfapyridine | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfaquinoxaline | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfathiazole | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| sulfatroxazole | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| tetracycline | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| thiamphenicol | honey | 0.0011 | not set | 10 | 0 | 0 | 0 |
| tilmicosin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| trimethoprim | honey | 0.02 | not set | 41 | 0 | 0 | 0 |
| tulathromycin | honey | 0.1 | not set | 41 | 0 | 0 | 0 |
| tylosin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |
| virginiamycin | honey | 0.05 | not set | 41 | 0 | 0 | 0 |

**Table 2: 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) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| arochlor 1254 | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| arochlor 1260 | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| chlordane | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| DDT | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| endosulfan | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| endrin | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| HCB (hexachlorobenzene) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| HCH (BHC) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| heptachlor | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| lindane (gamma-HCH) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| mirex | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| pentachlorobenzene | honey | 0.01 | not set | 23 | 0 | 0 | 0 |

**Table 3: Fungicides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL(mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| boscalid | honey | 0.01 | 0.5 | 23 | 0 | 0 | 0 |
| carbendazim | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| cyproconazole | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| fluquinconazole | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| flutriafol | honey | 0.01 | 0.5 | 23 | 0 | 0 | 0 |
| fluxapyroxad | honey | 0.01 | 0.1 | 23 | 0 | 0 | 0 |
| procymidone | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| propiconazole | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| quintozene | honey | 0.01 | not set | 23 | 0 | 0 | 0 |

**Table 4: Herbicides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL(mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ethofumesate | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| metolachlor | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| propachlor | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| pyrasulfotole | honey | 0.01 | not set | 23 | 0 | 0 | 0 |

**Table 5: Insecticides**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL(mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2,4-dimethylphenylformamide | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| acetamiprid-A | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| amitraz | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| bifenthrin | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| bioresmethrin | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| carbaryl | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| chlorantraniliprole | honey | 0.01 | 0.1 | 23 | 0 | 0 | 0 |
| chlorfenapyr | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| chlorfenvinphos (sum of isomers) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| chlorpyrifos | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| chlorpyrifos-methyl | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| clothianidin | honey | 0.01 | 0.1 | 23 | 0 | 0 | 0 |
| coumaphos  | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| cyantraniliprole | honey | 0.01 | 0.05 | 23 | 0 | 0 | 0 |
| cyfluthrin (sum of isomers) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| cyhalothrin (sum of isomers) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| cypermethrin (sum of isomers) | honey | 0.01 | 0.01 | 23 | 0 | 0 | 0 |
| deltamethrin | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| diazinon | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| dichlorvos | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| dicofol | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| dimethoate | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| ethion | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| famphur | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| fenitrothion | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| fenthion | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| fenvalerate (sum of isomers) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| fipronil | honey | 0.01 | 0.01 | 23 | 0 | 0 | 0 |
| flubendiamide | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| flumethrin | honey | 0.005 | 0.005 | 23 | 0 | 0 | 0 |
| fluvalinate (sum of isomers) | honey | 0.01 | 0.01 | 23 | 0 | 0 | 0 |
| imidacloprid | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| indoxacarb | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| malathion (maldison) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| methidathion | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| methoxychlor | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| omethoate | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| paradichlorobenzene | honey | 0.001 | not set | 46 | 0 | 0 | 0 |
| parathion-methyl | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| permethrin (sum of isomers) | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| phosmet | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| pirimiphos-methyl | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| prothiofos | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| pyraclofos | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| spirotetramat | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| sulfoxaflor | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| temephos | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| thiacloprid | honey | 0.01 | not set | 23 | 0 | 0 | 0 |
| thiamethoxam | honey | 0.01 | 0.5 | 23 | 0 | 0 | 0 |

**Table 6: Metals**

| **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL(mg/kg)** | **Number of samples tested** | **>LOR to ≤½MRL** | **>½MRL to ≤MRL** | **>MRL** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| aluminium | honey | 0.5 | no limit | 40 | 29 | 0 | 0 |
| lead | honey | 0.01 | no limit | 40 | 19 | 0 | 0 |
| selenium | honey | 0.05 | no limit | 40 | 0 | 0 | 0 |
| zinc | honey | 0.05 | no limit | 40 | 40 | 0 | 0 |