# Pear residue testing annual datasets 2016–17

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 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 Fungicides

| Chemical | Matrix | LOR (mg/kg) | MRL (mg/kg) | No. of samples tested | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- |
| 2-phenylphenol | Whole | 0.05 | Not Set | 99 | – | 0 |
| azoxystrobin | Whole | 0.01 | Not Set | 99 | – | 0 |
| benalaxyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| bitertanol | Whole | 0.01 | Not Set | 99 | – | 0 |
| boscalid | Whole | 0.01 | 2 | 99 | 0 | 0 |
| bupirimate | Whole | 0.01 | Not Set | 99 | – | 0 |
| captafol | Whole | 0.05 | Not Set | 99 | – | 0 |
| captan | Whole | 0.05 | 10 | 99 | 0 | 0 |
| carbendazim | Whole | 0.01 | Not Set | 99 | – | 0 |
| chlorothalonil | Whole | 0.01 | Not Set | 99 | – | 0 |
| cyproconazole | Whole | 0.01 | Not Set | 99 | – | 0 |
| cyprodinil | Whole | 0.01 | 0.05 | 99 | 0 | 0 |
| difenoconazole | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| dimethomorph (sum of E and Z isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| dithianon | Whole | 0.01 | 2 | 99 | 0 | 0 |
| dithiocarbamates | Whole | 0.2 | 3 | 99 | 3 | 0 |
| dodine | Whole | 0.01 | 5 | 99 | 0 | 0 |
| epoxiconazole | Whole | 0.01 | Not Set | 99 | – | 0 |
| etridiazole | Whole | 0.01 | Not Set | 99 | – | 0 |
| fenarimol | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| fenhexamid | Whole | 0.01 | Not Set | 99 | – | 0 |
| fluazinam | Whole | 0.01 | 0.01 | 99 | 0 | 0 |
| fludioxonil | Whole | 0.01 | 5 | 99 | 0 | 0 |
| fluquinconazole | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| flusilazole | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| flutriafol | Whole | 0.01 | Not Set | 99 | – | 0 |
| hexaconazole | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| imazalil | Whole | 0.01 | 5 | 99 | 4 | 2 |
| iprodione | Whole | 0.05 | 3 | 99 | 7 | 0 |
| kresoxim-methyl | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| metalaxyl | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| metrafenone | Whole | 0.01 | Not Set | 99 | – | 0 |
| myclobutanil | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| oxadixyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| paclobutrazol | Whole | 0.01 | 1 | 99 | 0 | 0 |
| penconazole | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| penthiopyrad | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| prochloraz | Whole | 0.01 | Not Set | 99 | – | 0 |
| procymidone | Whole | 0.01 | 1 | 99 | 0 | 0 |
| propiconazole | Whole | 0.01 | Not Set | 99 | – | 0 |
| prothioconazole | Whole | 0.05 | Not Set | 99 | – | 0 |
| pyraclostrobin | Whole | 0.01 | 1 | 99 | 0 | 0 |
| pyrimethanil | Whole | 0.01 | 15 | 99 | 0 | 0 |
| tebuconazole | Whole | 0.01 | 0.01 | 99 | 0 | 0 |
| thiabendazole | Whole | 0.01 | 10 | 99 | 0 | 0 |
| tolclofos methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| triadimefon | Whole | 0.01 | Not Set | 99 | – | 0 |
| triadimenol | Whole | 0.01 | Not Set | 99 | – | 0 |
| trifloxystrobin | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| triticonazole | Whole | 0.01 | Not Set | 99 | – | 0 |
| vinclozolin | Whole | 0.01 | Not Set | 99 | – | 0 |

Table 2 Herbicides

| Chemical | Matrix | LOR (mg/kg) | Australian standard (mg/kg) | No. of samples tested | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- |
| 2,2-DPA (2,2-dichloropropionic acid) | Whole | 0.05 | 0.1 | 99 | 0 | 0 |
| 2,4-D | Whole | 0.01 | 0.05 | 99 | 1 | 0 |
| atrazine | Whole | 0.01 | Not Set | 99 | – | 0 |
| bromacil | Whole | 0.01 | Not Set | 99 | – | 0 |
| bromoxynil | Whole | 0.01 | Not Set | 99 | – | 0 |
| carfentrazone-ethyl | Whole | 0.01 | 0.05 | 99 | 0 | 0 |
| chlorpropham | Whole | 0.05 | Not Set | 99 | – | 0 |
| chlorsulfuron | Whole | 0.01 | Not Set | 99 | – | 0 |
| chlorthal-dimethyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| clethodim (parent only) | Whole | 0.01 | Not Set | 99 | – | 0 |
| clodinafop-propargyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| clopyralid | Whole | 0.05 | Not Set | 99 | – | 0 |
| cyanazine | Whole | 0.01 | Not Set | 99 | – | 0 |
| dicamba | Whole | 0.01 | Not Set | 99 | – | 0 |
| dichlobenil | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| dichlorprop-P | Whole | 0.01 | Not Set | 99 | – | 0 |
| diflufenican | Whole | 0.01 | Not Set | 99 | – | 0 |
| diuron | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| ethofumesate | Whole | 0.01 | Not Set | 99 | – | 0 |
| iodosulfuron-methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| ioxynil | Whole | 0.01 | Not Set | 99 | – | 0 |
| isoxaben | Whole | 0.01 | 0.01 | 99 | 0 | 0 |
| linuron | Whole | 0.05 | Not Set | 99 | – | 0 |
| MCPA | Whole | 0.01 | Not Set | 99 | – | 0 |
| methabenzthiazuron | Whole | 0.01 | Not Set | 99 | – | 0 |
| metolachlor | Whole | 0.01 | Not Set | 99 | – | 0 |
| metosulam | Whole | 0.01 | Not Set | 99 | – | 0 |
| metribuzin | Whole | 0.01 | Not Set | 99 | – | 0 |
| metsulfuron-methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| napropamide | Whole | 0.01 | Not Set | 99 | – | 0 |
| norflurazon | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| oryzalin | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| oxyfluorfen | Whole | 0.01 | 0.05 | 99 | 0 | 0 |
| pendimethalin | Whole | 0.01 | 0.05 | 99 | 1 | 0 |
| picloram | Whole | 0.01 | Not Set | 99 | – | 0 |
| propachlor | Whole | 0.01 | Not Set | 99 | – | 0 |
| propyzamide | Whole | 0.01 | Not Set | 99 | – | 0 |
| quizalofop-ethyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| quizalofop-P-tefuryl | Whole | 0.01 | Not Set | 99 | – | 0 |
| saflufenacil | Whole | 0.01 | 0.03 | 99 | 0 | 0 |
| sethoxydim | Whole | 0.01 | Not Set | 99 | – | 0 |
| simazine | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| tralkoxydim | Whole | 0.01 | Not Set | 99 | – | 0 |
| triasulfuron | Whole | 0.01 | Not Set | 99 | – | 0 |
| triclopyr | Whole | 0.01 | Not Set | 99 | – | 0 |
| trifluralin | Whole | 0.01 | 0.05 | 99 | 0 | 0 |

Table 3 Insecticides

| Chemical | Matrix | LOR (mg/kg) | Australian standard (mg/kg) | No. of samples tested | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- |
| abamectin | Whole | 0.01 | 0.01 | 99 | 0 | 0 |
| acephate | Whole | 0.05 | Not Set | 99 | – | 0 |
| acetamiprid | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| aldicarb | Whole | 0.01 | Not Set | 99 | – | 0 |
| amitraz | Whole | 0.01 | Not Set | 99 | – | 0 |
| azamethiphos | Whole | 0.01 | Not Set | 99 | – | 0 |
| azinphos-methyl | Whole | 0.01 | 1 | 99 | 0 | 0 |
| bifenazate | Whole | 0.01 | 2 | 99 | 0 | 0 |
| bifenthrin | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| bioresmethrin | Whole | 0.01 | Not Set | 99 | – | 0 |
| buprofezin | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| cadusafos | Whole | 0.01 | Not Set | 99 | – | 0 |
| carbaryl | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| carbofuran | Whole | 0.01 | Not Set | 99 | – | 0 |
| chlorantraniliprole | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| chlorfenapyr | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| chlorfenvinphos (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| chlorpyrifos | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| chlorpyrifos-methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| clofentezine | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| clothianidin | Whole | 0.01 | 2 | 99 | 0 | 0 |
| cyfluthrin (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| cyhalothrin (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| cypermethrin (sum of isomers) | Whole | 0.01 | 1 | 99 | 0 | 0 |
| deltamethrin | Whole | 0.01 | Not Set | 99 | – | 0 |
| diazinon | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| dichlorvos | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| dicofol | Whole | 0.01 | 5 | 99 | 0 | 0 |
| diflubenzuron | Whole | 0.01 | Not Set | 99 | – | 0 |
| dimethoate | Whole | 0.01 | Not Set | 99 | – | 0 |
| disulfoton | Whole | 0.01 | Not Set | 99 | – | 0 |
| emamectin | Whole | 0.01 | Not Set | 99 | – | 0 |
| esfenvalerate | Whole | 0.01 | Not Set | 99 | – | 0 |
| ethion | Whole | 0.01 | 1 | 99 | 0 | 0 |
| ethoprophos | Whole | 0.005 | Not Set | 99 | – | 0 |
| etoxazole | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| fenamiphos | Whole | 0.01 | Not Set | 99 | – | 0 |
| fenbutatin oxide | Whole | 0.01 | 3 | 99 | 0 | 0 |
| fenitrothion | Whole | 0.01 | Not Set | 99 | – | 0 |
| fenoxycarb | Whole | 0.01 | 2 | 99 | 0 | 0 |
| fenpyroximate | Whole | 0.01 | 0.3 | 99 | 0 | 0 |
| fenthion | Whole | 0.01 | Not Set | 99 | – | 0 |
| fenvalerate (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 1 |
| fipronil | Whole | 0.01 | 0.01 | 99 | 0 | 0 |
| flonicamid | Whole | 0.01 | 0.7 | 99 | 0 | 0 |
| hexythiazox | Whole | 0.01 | 1 | 99 | 0 | 0 |
| imidacloprid | Whole | 0.01 | Not Set | 99 | – | 0 |
| indoxacarb | Whole | 0.01 | 2 | 99 | 0 | 0 |
| malathion (maldison) | Whole | 0.01 | 2 | 99 | 0 | 0 |
| metaldehyde | Whole | 0.05 | 1 | 99 | 0 | 0 |
| methacrifos | Whole | 0.01 | Not Set | 99 | – | 0 |
| methamidophos | Whole | 0.01 | Not Set | 99 | – | 0 |
| methidathion | Whole | 0.01 | 0.2 | 99 | 0 | 0 |
| methiocarb | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| methomyl | Whole | 0.01 | 3 | 99 | 0 | 0 |
| methoprene | Whole | 0.01 | Not Set | 99 | – | 0 |
| methoxychlor | Whole | 0.01 | Not Set | 99 | – | 0 |
| methoxyfenozide | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| mevinphos | Whole | 0.01 | Not Set | 99 | – | 0 |
| monocrotophos | Whole | 0.01 | Not Set | 99 | – | 0 |
| omethoate | Whole | 0.01 | 2 | 99 | 0 | 0 |
| parathion | Whole | 0.01 | Not Set | 99 | – | 0 |
| parathion-methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| permethrin (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| phenothrin (sum of isomers) | Whole | 0.01 | Not Set | 99 | – | 0 |
| phorate | Whole | 0.01 | Not Set | 99 | – | 0 |
| phosmet | Whole | 0.01 | 1 | 99 | 0 | 0 |
| piperonyl butoxide | Whole | 0.01 | 8 | 99 | 0 | 0 |
| pirimicarb | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| pirimiphos-methyl | Whole | 0.01 | Not Set | 99 | – | 0 |
| profenofos | Whole | 0.01 | Not Set | 99 | – | 0 |
| propargite | Whole | 0.01 | 3 | 99 | 0 | 0 |
| prothiofos | Whole | 0.01 | 0.05 | 99 | 0 | 0 |
| pymetrozine | Whole | 0.01 | Not Set | 99 | – | 0 |
| pyrethrins | Whole | 0.05 | 1 | 99 | 0 | 0 |
| pyridaben | Whole | 0.02 | 0.5 | 99 | 0 | 0 |
| pyriproxyfen | Whole | 0.01 | Not Set | 99 | – | 0 |
| spinetoram | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| spinosad | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| spirotetramat | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| sulfoxaflor | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| tau-fluvalinate | Whole | 0.01 | Not Set | 99 | – | 0 |
| tebufenozide | Whole | 0.01 | 1 | 99 | 0 | 0 |
| tebufenpyrad | Whole | 0.01 | 1 | 99 | 0 | 0 |
| terbufos | Whole | 0.01 | Not Set | 99 | – | 0 |
| tetradifon | Whole | 0.01 | 5 | 99 | 0 | 0 |
| thiacloprid | Whole | 0.01 | 1 | 99 | 0 | 0 |
| thiamethoxam | Whole | 0.01 | Not Set | 99 | – | 0 |
| thiodicarb | Whole | 0.01 | Not Set | 99 | – | 0 |
| triazofos | Whole | 0.01 | Not Set | 99 | – | 0 |
| trichlorfon | Whole | 0.01 | 0.1 | 99 | 0 | 0 |
| triflumuron | Whole | 0.01 | Not Set | 99 | – | 0 |

Table 4 Contaminants

| Chemical | Matrix | LOR (mg/kg) | Australian standard (mg/kg) | No. of samples tested | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- |
| aldrin and dieldrin (HHDN+HEOD) | Whole | 0.01 | 0.05 | 99 | 0 | 0 |
| chlordane | Whole | 0.01 | 0.02 | 99 | 0 | 0 |
| DDT | Whole | 0.01 | 1 | 99 | 0 | 0 |
| endosulfan | Whole | 0.01 | Not Set | 99 | – | 0 |
| endrin | Whole | 0.01 | Not Set | 99 | – | 0 |
| HCB (hexachlorobenzene) | Whole | 0.01 | Not Set | 99 | – | 0 |
| HCH (BHC) | Whole | 0.01 | Not Set | 99 | – | 0 |
| heptachlor | Whole | 0.01 | Not Set | 99 | – | 0 |
| lindane (gamma-HCH) | Whole | 0.01 | 0.5 | 99 | 0 | 0 |
| mirex | Whole | 0.01 | Not Set | 99 | – | 0 |

Table 5 - Physiological Modifier

| Chemical | Matrix | LOR (mg/kg) | Australian standard (mg/kg) | No. of samples tested | > ½ MRL to ≤ MRL | > MRL |
| --- | --- | --- | --- | --- | --- | --- |
| diphenylamine | Whole | 0.01 | 7 | 99 | 8 | 1 |