



# Maize (flour) 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<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|----------------|--------|----------------|----------------|-----------------------------|---------------------|-------|
| azoxystrobin   | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| benalaxyl      | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| bitertanol     | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| boscalid       | whole  | 0.01           | 0.5            | 1                           | 0                   | 0     |
| bupirimate     | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| captafol       | whole  | 0.02           | not set        | 1                           | –                   | 0     |
| captan         | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| carbendazim    | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| chlorothalonil | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| cyproconazole  | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| cyprodinil     | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| difenoconazole | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |

## Maize (flour) residue testing annual datasets 2016–17

| Chemical                                 | Matrix | LOR<br>(mg/kg) | MRL<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|------------------------------------------|--------|----------------|----------------|-----------------------------|---------------------|-------|
| dimethomorph (sum of<br>E and Z isomers) | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| dithianon                                | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| dodine                                   | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| epoxiconazole                            | whole  | 0.01           | 0.05           | 1                           | 0                   | 0     |
| etridiazole                              | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| fenarimol                                | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| fenhexamid                               | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| fluazinam                                | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| fludioxonil                              | whole  | 0.01           | 0.02           | 1                           | 0                   | 0     |
| fluquinconazole                          | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| flusilazole                              | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| flutriafol                               | whole  | 0.01           | 0.02           | 1                           | 0                   | 0     |
| fluxapyroxad                             | whole  | 0.01           | 0.1            | 1                           | 0                   | 0     |
| hexaconazole                             | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| imazalil                                 | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| ipconazole                               | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| iprodione                                | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| kresoxim-methyl                          | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| metalaxyl                                | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| myclobutanil                             | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| oxadixyl                                 | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| penconazole                              | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| prochloraz                               | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| procymidone                              | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| propiconazole                            | whole  | 0.01           | 0.05           | 1                           | 0                   | 0     |
| prothioconazole                          | whole  | 0.01           | 0.3            | 1                           | 0                   | 0     |
| pyraclostrobin                           | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| pyrimethanil                             | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| quinoxifen                               | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| spiroxamine-P                            | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| tebuconazole                             | whole  | 0.01           | 0.2            | 1                           | 0                   | 0     |
| thiabendazole                            | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| tolclofos methyl                         | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| triadimefon                              | whole  | 0.01           | 0.5            | 1                           | 0                   | 0     |
| triadimenol                              | whole  | 0.01           | 0.01           | 1                           | 0                   | 0     |
| trifloxystrobin                          | whole  | 0.01           | not set        | 1                           | –                   | 0     |
| triticonazole                            | whole  | 0.01           | 0.05           | 1                           | 0                   | 0     |
| vinclozolin                              | whole  | 0.01           | not set        | 1                           | –                   | 0     |

**Table 2 Herbicides**

| Chemical                             | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|--------------------------------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| 2,2-DPA (2,2-dichloropropionic acid) | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| 2,4-D                                | whole  | 0.01           | 0.2                               | 1                           | 0                   | 0     |
| amitrole                             | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| atrazine                             | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| bromacil                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| bromoxynil                           | whole  | 0.01           | 0.2                               | 1                           | 0                   | 0     |
| carfentrazone-ethyl                  | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| chlorpropham                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| chlorsulfuron                        | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| chlorthal-dimethyl                   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| clethodim (parent only)              | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| clodinafop-propargyl                 | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| clopyralid                           | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| cyanazine                            | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| dicamba                              | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| dichlobenil                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| dichlorprop-P                        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| diclofop-methyl                      | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| diflufenican                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| diquat                               | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| diuron                               | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| ethofumesate                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenoxaprop-ethyl                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| flamprop-M-methyl                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fluazifop-p-butyl                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| flumetsulam                          | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| glufosinate                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| glyphosate                           | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| haloxyfop                            | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| imazamox                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| imazapic                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| imazapyr                             | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| imazaquin                            | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| imazethapyr                          | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| iodosulfuron-methyl                  | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| ioxynil                              | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| isoxaben                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| linuron                              | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |

| Chemical             | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|----------------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| MCPA                 | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| methabenzthiazuron   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| metolachlor          | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| metosulam            | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| metribuzin           | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| metsulfuron-methyl   | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| napropamide          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| norflurazon          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| oryzalin             | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| oxyfluorfen          | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| paraquat             | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| pendimethalin        | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| picloram             | whole  | 0.01           | 0.2                               | 1                           | 0                   | 0     |
| propachlor           | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| propyzamide          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| quizalofop-ethyl     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| quizalofop-P-tefuryl | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| saflufenacil         | whole  | 0.01           | 0.03                              | 1                           | 0                   | 0     |
| sethoxydim           | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| simazine             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| tralkoxydim          | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| triasulfuron         | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| triclopyr            | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| trifluralin          | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |

**Table 3 Insecticides**

| Chemical        | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|-----------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| abamectin       | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| acephate        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| acetamiprid     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| aldicarb        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| amitraz         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| azamethiphos    | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| azinphos-methyl | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| bifenazate      | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| bifenthrin      | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| bioresmethrin   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| buprofezin      | whole  | 0.01           | not set                           | 1                           | –                   | 0     |

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| Chemical                            | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|-------------------------------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| cadusafos                           | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| carbaryl                            | whole  | 0.01           | 5                                 | 1                           | 0                   | 0     |
| carbofuran                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| chlorantraniliprole                 | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| chlorfenapyr                        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| chlorfenvinphos (sum<br>of isomers) | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| chlorpyrifos                        | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| chlorpyrifos-methyl                 | whole  | 0.01           | 10                                | 1                           | 0                   | 0     |
| clofentezine                        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| clothianidin                        | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| cyfluthrin (sum of<br>isomers)      | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| cyhalothrin (sum of<br>isomers)     | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| cypermethrin (sum of<br>isomers)    | whole  | 0.01           | 1                                 | 1                           | 0                   | 0     |
| deltamethrin                        | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| diafenthion                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| diazinon                            | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| dichlorvos                          | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| dicofol                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| diflubenzuron                       | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| dimethoate                          | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| disulfoton                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| emamectin                           | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| esfenvalerate                       | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| ethion                              | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| ethoprophos                         | whole  | 0.005          | 0.005                             | 1                           | 0                   | 0     |
| etoxazole                           | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenamiphos                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenbutatin oxide                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenitrothion                        | whole  | 0.01           | 10                                | 1                           | 0                   | 0     |
| fenoxycarb                          | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenpyroximate                       | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenthion                            | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| fenvalerate (sum of<br>isomers)     | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| fipronil                            | whole  | 0.002          | not set                           | 1                           | –                   | 0     |
| hexythiazox                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| imidacloprid                        | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |

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| Chemical                       | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|--------------------------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| indoxacarb                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| malathion (maldison)           | whole  | 0.01           | 8                                 | 1                           | 0                   | 0     |
| methacrifos                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| methamidophos                  | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| methidathion                   | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| methiocarb                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| methomyl                       | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| methoprene                     | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| methoxychlor                   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| methoxyfenozide                | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| mevinphos                      | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| monocrotophos                  | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| omethoate                      | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| parathion                      | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| parathion-methyl               | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| permethrin (sum of<br>isomers) | whole  | 0.01           | 2                                 | 1                           | 0                   | 0     |
| phenothrin (sum of<br>isomers) | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| phorate                        | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| phosmet                        | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| piperonyl butoxide             | whole  | 0.01           | 20                                | 1                           | 0                   | 0     |
| pirimicarb                     | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| pirimiphos-methyl              | whole  | 0.01           | 7                                 | 1                           | 0                   | 0     |
| profenofos                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| propargite                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| prothiofos                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| pymetrozine                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| pyrethrins                     | whole  | 0.01           | 3                                 | 1                           | 0                   | 0     |
| pyriproxyfen                   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| spinetoram                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| spinosad                       | whole  | 0.01           | 1                                 | 1                           | 0                   | 0     |
| spirotetramat                  | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| sulfoxaflor                    | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| tau-fluvalinate                | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| tebufenozide                   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| tebufenpyrad                   | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| terbufos                       | whole  | 0.01           | 0.01                              | 1                           | 0                   | 0     |
| tetradifon                     | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| thiacloprid                    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |

| Chemical     | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|--------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| thiamethoxam | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| thiodicarb   | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| triazofos    | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| trichlorfon  | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| triflumuron  | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |

**Table 4 Contaminants**

| Chemical                           | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|------------------------------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| aldrin and dieldrin<br>(HHDN+HEOD) | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| chlordane                          | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| DDT                                | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| endosulfan                         | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| endrin                             | whole  | 0.01           | not set                           | 1                           | –                   | 0     |
| HCB<br>(hexachlorobenzene)         | whole  | 0.01           | 0.05                              | 1                           | 0                   | 0     |
| HCH (BHC)                          | whole  | 0.01           | 0.1                               | 1                           | 0                   | 0     |
| heptachlor                         | whole  | 0.01           | 0.02                              | 1                           | 0                   | 0     |
| lindane (gamma-HCH)                | whole  | 0.01           | 0.5                               | 1                           | 0                   | 0     |
| mirex                              | whole  | 0.01           | not set                           | 1                           | –                   | 0     |

**Table 5 Fumigants**

| Chemical        | Matrix | LOR<br>(mg/kg) | Australian<br>standard<br>(mg/kg) | No. of<br>samples<br>tested | > ½ MRL<br>to ≤ MRL | > MRL |
|-----------------|--------|----------------|-----------------------------------|-----------------------------|---------------------|-------|
| phosphine total | whole  | 0.005          | 0.1                               | 1                           | 0                   | 0     |