



Australian Government

Department of Agriculture, Fisheries and Forestry

## Maize Annual Results 2011-12

Table 1 INSECTICIDES - ORGANOCHLORINES

| Chemical            | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|---------------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                     |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Aldrin and dieldrin | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Chlordane           | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| DDT                 | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Endosulfan          | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Endrin              | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| HCB                 | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| HCH                 | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Heptachlor          | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Lindane (gamma-HCH) | WHOLE  | 0.01           | 0.5                     | 16                                | 0                                             | 0           |
| Methoxychlor        | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Mirex               | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |

Table 2 INSECTICIDES - ORGANOPHOSPHATES

| Chemical            | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|---------------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                     |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Azamethiphos        | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Chlorfenvinphos     | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Chlorpyrifos        | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Chlorpyrifos-methyl | WHOLE  | 0.01           | 10                      | 16                                | 0                                             | 0           |
| Diazinon            | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Dichlorvos          | WHOLE  | 0.01           | 5                       | 16                                | 0                                             | 0           |
| Dimethoate (RD)     | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Ethoprofos          | WHOLE  | 0.01           | 0.005                   | 16                                | 0                                             | 0           |
| Fenitrothion        | WHOLE  | 0.01           | 10                      | 16                                | 0                                             | 0           |

| Chemical          | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|-------------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                   |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Malathion         | WHOLE  | 0.01           | 8                       | 16                                | 0                                             | 0           |
| Methacrifos       | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Methidathion      | WHOLE  | 0.01           | 0.01                    | 16                                | 0                                             | 0           |
| Omethoate         | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Phosmet           | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Pirimiphos-methyl | WHOLE  | 0.01           | 7                       | 16                                | 0                                             | 0           |
| Profenofos        | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Terbufos          | WHOLE  | 0.01           | 0.01                    | 16                                | 0                                             | 0           |
| Trichlorfon       | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |

**Table 3 INSECTICIDES - SYNTHETIC PYRETHROIDS**

| Chemical      | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|---------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|               |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Bifenthrin    | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Bioresmethrin | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Cyfluthrin    | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |
| Cyhalothrin   | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Cypermethrin  | WHOLE  | 0.01           | 1                       | 16                                | 0                                             | 0           |
| Deltamethrin  | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |
| Fenvalerate   | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |
| Permethrin    | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |
| Phenothrin    | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |

**Table 4 OTHER INSECTICIDES**

| Chemical      | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|---------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|               |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Acetamiprid   | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Amitraz       | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Carbaryl      | WHOLE  | 0.01           | 5                       | 16                                | 0                                             | 0           |
| Diflubenzuron | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |

| Chemical           | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|--------------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                    |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Enamectin          | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Fipronil           | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Imidacloprid       | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Indoxacarb         | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Methomyl           | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Methoprene         | WHOLE  | 0.01           | 2                       | 16                                | 0                                             | 0           |
| Pirimicarb         | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Piperonyl butoxide | WHOLE  | 0.01           | 20                      | 16                                | 0                                             | 0           |
| Pyriproxyfen       | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Spinosad           | WHOLE  | 0.01           | 1                       | 16                                | 0                                             | 0           |
| Triflumuron        | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Thiodicarb         | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |

**Table 5 FUNGICIDES**

| Chemical        | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|-----------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                 |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Azoxystrobin    | WHOLE  | 0.01           | 0.01                    | 16                                | 0                                             | 0           |
| Captafol        | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Captan          | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Carbendazim     | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Chlorothalonil  | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Cyproconazole   | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Difenoconazole  | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Epoxiconazole   | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Etridiazole     | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Fluquinconazole | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Flutriafol      | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Hexaconazole    | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Iprodione       | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Penconazole     | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |

| Chemical        | Matrix | LOR<br>(mg/kg) | Aust. Std<br>(mg/kg) | Number of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|-----------------|--------|----------------|----------------------|--------------------------------|-----------------------------------------------|-------------|
|                 |        |                |                      |                                | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Procymidone     | WHOLE  | 0.01           | Not set              | 16                             | 0                                             | 0           |
| Propiconazole   | WHOLE  | 0.01           | 0.05                 | 16                             | 0                                             | 0           |
| Prothioconazole | WHOLE  | 0.01           | 0.3                  | 16                             | 0                                             | 0           |
| Pyraclostrobin  | WHOLE  | 0.01           | 0.01                 | 16                             | 0                                             | 0           |
| Tebuconazole    | WHOLE  | 0.01           | 0.2                  | 16                             | 0                                             | 0           |
| Thiabendazole   | WHOLE  | 0.01           | Not set              | 16                             | 0                                             | 0           |
| Triadimefon     | WHOLE  | 0.01           | 0.5                  | 16                             | 0                                             | 0           |
| Triadimenol     | WHOLE  | 0.01           | 0.01                 | 16                             | 0                                             | 0           |
| Triticonazole   | WHOLE  | 0.01           | 0.05                 | 16                             | 0                                             | 0           |

**Table 6 HERBICIDES**

| Chemical             | Matrix | LOR<br>(mg/kg) | Aust. Std<br>(mg/kg) | Number of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|----------------------|--------|----------------|----------------------|--------------------------------|-----------------------------------------------|-------------|
|                      |        |                |                      |                                | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| 2,4-D                | WHOLE  | 0.01           | 0.2                  | 16                             | 0                                             | 0           |
| Amitrole             | WHOLE  | 0.01           | 0.01                 | 2                              | 0                                             | 0           |
| Atrazine             | WHOLE  | 0.01           | 0.1                  | 16                             | 0                                             | 0           |
| Bromoxynil           | WHOLE  | 0.01           | 0.2                  | 16                             | 0                                             | 0           |
| Carfentrazone-ethyl  | WHOLE  | 0.01           | 0.05                 | 16                             | 0                                             | 0           |
| Chlorsulfuron        | WHOLE  | 0.01           | 0.05                 | 16                             | 0                                             | 0           |
| Clethodim            | WHOLE  | 0.01           | Not set              | 16                             | 0                                             | 0           |
| Clodinafop-propargyl | WHOLE  | 0.01           | Not set              | 16                             | 0                                             | 0           |
| Clopyralid           | WHOLE  | 0.01           | 2                    | 16                             | 0                                             | 0           |
| Dicamba              | WHOLE  | 0.01           | 0.05                 | 16                             | 0                                             | 0           |
| Diclofop-methyl      | WHOLE  | 0.01           | 0.1                  | 2                              | 0                                             | 0           |
| Diffufenican         | WHOLE  | 0.01           | Not set              | 16                             | 0                                             | 0           |
| Diquat               | WHOLE  | 0.01           | 0.1                  | 2                              | 0                                             | 0           |
| Diuron               | WHOLE  | 0.01           | 0.1                  | 16                             | 0                                             | 0           |
| Fenoxaprop-ethyl     | WHOLE  | 0.01           | Not set              | 2                              | 0                                             | 0           |
| Flamprop-m-methyl    | WHOLE  | 0.01           | Not set              | 2                              | 0                                             | 0           |
| Fluazifop-p-butyl    | WHOLE  | 0.01           | Not set              | 2                              | 0                                             | 0           |

| Chemical            | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|---------------------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|                     |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Glufosinate         | WHOLE  | 0.01           | Not set                 | 2                                 | 0                                             | 0           |
| Glyphosate          | WHOLE  | 0.01           | 0.1                     | 2                                 | 0                                             | 0           |
| Haloxypop           | WHOLE  | 0.01           | Not set                 | 2                                 | 0                                             | 0           |
| Iodosulfuron-methyl | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| MCPA                | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Metolachlor         | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Metosulam           | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Metsulfuron-methyl  | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Paraquat            | WHOLE  | 0.01           | 0.1                     | 2                                 | 0                                             | 0           |
| Pendimethalin       | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |
| Picloram            | WHOLE  | 0.01           | 0.2                     | 16                                | 0                                             | 0           |
| Sethoxydim          | WHOLE  | 0.01           | 0.1                     | 16                                | 0                                             | 0           |
| Simazine            | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Tralkoxydim         | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Triasulfuron        | WHOLE  | 0.01           | 0.02                    | 16                                | 0                                             | 0           |
| Triclopyr           | WHOLE  | 0.01           | Not set                 | 16                                | 0                                             | 0           |
| Trifluralin         | WHOLE  | 0.01           | 0.05                    | 16                                | 0                                             | 0           |

**Table 7 FUMIGANTS**

| Chemical  | Matrix | LOR<br>(mg/kg) | Aust.<br>Std<br>(mg/kg) | Number<br>of<br>samples<br>tested | Analytical findings<br>(number of detections) |             |
|-----------|--------|----------------|-------------------------|-----------------------------------|-----------------------------------------------|-------------|
|           |        |                |                         |                                   | > half Aust. Std<br>≤ Aust. Std               | > Aust. Std |
| Phosphine | WHOLE  | 0.005          | 0.1                     | 1                                 | 0                                             | 0           |

LOR - Limit of reporting (mg/kg).

Not set - No 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.

No limit - No standard applicable for the contaminant. The 'as low as reasonably achievable' principle applies. Detections at low levels are allowable.

n/a - Australian standard does not apply. No limit set or defined.