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| |  | | --- | | **Chickpea residue testing annual datasets 2022-23** | | | |
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| |  | | --- | | National Residue Survey (NRS), Department of Agriculture, Fisheries and Forestry  **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.  **Disclaimer**  Although the Australian Government has exercised due care and skill in the preparation and compilation of this publication, it does not warrant its accuracy, completeness, currency or suitability for any purpose. To the maximum extent permitted by law, the Australian Government disclaims all liability, including liability in negligence for any loss, damage, cost or expense incurred by persons as a result of accessing, using or relying on any of the information or data set out in this publication. Before relying on the material in any matters, users should carefully evaluate its accuracy, currency, completeness and relevance for the purposes intended, and should obtain any appropriate professional advice relevant to their particular circumstances. | | | |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Table 1: CONTAMINANTS** | | | | | | | | **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>½MRL to ≤MRL** | **>MRL** | | aldrin and dieldrin (HHDN+HEOD) | Whole | 0.01 | not set | 168 | - | - | | chlordane | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | DDT | Whole | 0.01 | 1 | 168 | 0 | 0 | | endosulfan | Whole | 0.01 | not set | 168 | - | - | | endrin | Whole | 0.01 | not set | 168 | - | - | | HCB (hexachlorobenzene) | Whole | 0.01 | not set | 168 | - | - | | HCH (BHC) | Whole | 0.01 | not set | 168 | - | - | | heptachlor | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | lindane (gamma-HCH) | Whole | 0.01 | 2 | 168 | 0 | 0 | | mirex | Whole | 0.01 | not set | 168 | - | - | |  | | | | | | | |  |  |  |  |  |  |  | | **Table 2: FUNGICIDES** | | | | | | | | **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>½MRL to ≤MRL** | **>MRL** | | azoxystrobin | Whole | 0.01 | 0.3 | 168 | 0 | 0 | | benalaxyl | Whole | 0.01 | not set | 168 | - | - | | benzovindiflupyr | Whole | 0.01 | not set | 168 | - | - | | bitertanol | Whole | 0.01 | not set | 168 | - | - | | bixafen | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | boscalid | Whole | 0.01 | 3 | 168 | 0 | 0 | | bupirimate | Whole | 0.01 | not set | 168 | - | - | | captafol | Whole | 0.01 | not set | 168 | - | - | | captan | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | carbendazim | Whole | 0.01 | 0.5 | 168 | 0 | 0 | | carboxin | Whole | 0.01 | not set | 168 | - | - | | chlorothalonil | Whole | 0.01 | 3 | 168 | 0 | 0 | | cyproconazole | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | cyprodinil | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | difenoconazole | Whole | 0.01 | not set | 168 | - | - | | dimethomorph | Whole | 0.01 | 1 | 168 | 0 | 0 | | dithianon | Whole | 0.01 | not set | 168 | - | - | | dodine | Whole | 0.01 | not set | 168 | - | - | | epoxiconazole | Whole | 0.01 | not set | 168 | - | - | | etridiazole | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | fenarimol | Whole | 0.01 | not set | 168 | - | - | | fenbuconazole | Whole | 0.01 | not set | 168 | - | - | | fenhexamid | Whole | 0.01 | not set | 168 | - | - | | fluazinam | Whole | 0.01 | not set | 168 | - | - | | fludioxonil | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | fluopicolide | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | fluopyram | Whole | 0.01 | 0.03 | 168 | 0 | 0 | | fluquinconazole | Whole | 0.01 | not set | 168 | - | - | | flusilazole | Whole | 0.01 | not set | 168 | - | - | | flutriafol | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | fluxapyroxad | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | hexaconazole | Whole | 0.01 | not set | 168 | - | - | | imazalil | Whole | 0.01 | not set | 168 | - | - | | ipconazole | Whole | 0.01 | not set | 168 | - | - | | iprodione | Whole | 0.01 | not set | 168 | - | - | | isoprothiolane | Whole | 0.01 | not set | 168 | - | - | | isopyrazam | Whole | 0.01 | not set | 168 | - | - | | kresoxim-methyl | Whole | 0.01 | not set | 168 | - | - | | metalaxyl | Whole | 0.01 | not set | 168 | - | - | | myclobutanil | Whole | 0.01 | not set | 168 | - | - | | oxadixyl | Whole | 0.01 | not set | 168 | - | - | | penconazole | Whole | 0.01 | not set | 168 | - | - | | penflufen | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | prochloraz | Whole | 0.01 | not set | 168 | - | - | | procymidone | Whole | 0.01 | 0.5 | 168 | 0 | 0 | | propiconazole | Whole | 0.01 | 0.3 | 168 | 0 | 0 | | prothioconazole | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | pydiflumetofen | Whole | 0.01 | 0.4 | 168 | 0 | 0 | | pyraclostrobin | Whole | 0.01 | not set | 168 | - | - | | pyrimethanil | Whole | 0.01 | not set | 168 | - | - | | quinoxyfen | Whole | 0.01 | not set | 168 | - | - | | quintozene | Whole | 0.01 | not set | 168 | - | - | | sedaxane | Whole | 0.01 | not set | 168 | - | - | | spiroxamine | Whole | 0.01 | not set | 168 | - | - | | tebuconazole | Whole | 0.01 | 1 | 168 | 0 | 0 | | thiabendazole | Whole | 0.01 | not set | 168 | - | - | | tolclofos methyl | Whole | 0.01 | not set | 168 | - | - | | triadimefon | Whole | 0.01 | not set | 168 | - | - | | triadimenol | Whole | 0.01 | not set | 168 | - | - | | trifloxystrobin | Whole | 0.01 | not set | 168 | - | - | | triticonazole | Whole | 0.01 | not set | 168 | - | - | | uniconazole-P | Whole | 0.01 | not set | 67 | - | - | | vinclozolin | Whole | 0.01 | not set | 168 | - | - | |  | | | | | | | |  |  |  |  |  |  |  | | **Table 3: HERBICIDES** | | | | | | | | **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>½MRL to ≤MRL** | **>MRL** | | 2,2-DPA (2,2-dichloropropionic acid) | Whole | 0.01 | not set | 168 | - | - | | 2,4-D | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | 2,4-DB | Whole | 0.01 | not set | 168 | - | - | | acifluorfen | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | ametryn | Whole | 0.01 | not set | 168 | - | - | | aminopyralid | Whole | 0.01 | not set | 168 | - | - | | amitrole | Whole | 0.01 | 0.01 | 35 | 0 | 0 | | atrazine | Whole | 0.01 | not set | 168 | - | - | | bentazone | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | bicyclopyrone | Whole | 0.01 | not set | 168 | - | - | | bixlozone | Whole | 0.01 | not set | 168 | - | - | | bromacil | Whole | 0.01 | not set | 168 | - | - | | bromoxynil | Whole | 0.01 | not set | 168 | - | - | | butafenacil | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | butroxydim | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | carfentrazone-ethyl | Whole | 0.01 | not set | 168 | - | - | | chlormequat | Whole | 0.01 | not set | 35 | - | - | | chlorpropham | Whole | 0.01 | not set | 168 | - | - | | chlorsulfuron | Whole | 0.01 | not set | 168 | - | - | | chlorthal-dimethyl | Whole | 0.01 | not set | 168 | - | - | | cinmethylin | Whole | 0.01 | not set | 168 | - | - | | clethodim | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | clodinafop acid | Whole | 0.01 | not set | 168 | - | - | | clodinafop-propargyl | Whole | 0.01 | not set | 168 | - | - | | clomazone | Whole | 0.01 | not set | 168 | - | - | | clopyralid | Whole | 0.01 | not set | 168 | - | - | | cloquintocet-mexyl | Whole | 0.01 | not set | 168 | - | - | | cyanazine | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | dicamba | Whole | 0.01 | not set | 168 | - | - | | dichlobenil | Whole | 0.01 | not set | 168 | - | - | | dichlorprop-P | Whole | 0.01 | not set | 35 | - | - | | diclofop-methyl | Whole | 0.01 | not set | 35 | - | - | | diflufenican | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | dimethenamid-P | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | diquat | Whole | 0.01 | 1 | 35 | 0 | 0 | | diuron | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | EPTC | Whole | 0.01 | 0.04 | 168 | 0 | 0 | | ethofumesate | Whole | 0.01 | not set | 168 | - | - | | fenoxaprop-ethyl | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | flamprop-M-methyl | Whole | 0.01 | 0.01 | 35 | 0 | 0 | | florasulam | Whole | 0.01 | not set | 168 | - | - | | florpyrauxifen-benzyl | Whole |  | not set | 168 | - | - | | fluazifop-p-butyl | Whole | 0.01 | 0.5 | 35 | 0 | 0 | | flumetsulam | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | flumioxazin | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | fluroxypyr | Whole | 0.01 | not set | 168 | - | - | | fomesafen | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | glufosinate | Whole | 0.01 | not set | 35 | - | - | | glyphosate | Whole | 0.01 | 5 | 35 | 1 | 0 | | halauxifen-methyl | Whole | 0.01 | not set | 168 | - | - | | halosulfuron-methyl | Whole | 0.01 | not set | 168 | - | - | | haloxyfop | Whole | 0.005 | 0.1 | 35 | 5 | 1 | | imazamox | Whole | 0.01 | not set | 8 | - | - | | imazapic | Whole | 0.01 | not set | 8 | - | - | | imazapyr | Whole | 0.01 | not set | 8 | 0 | 0 | | imazaquin | Whole | 0.01 | not set | 8 | - | - | | imazethapyr | Whole | 0.01 | 0.1 | 8 | 0 | 0 | | iodosulfuron-methyl | Whole | 0.01 | not set | 168 | - | - | | ioxynil | Whole | 0.01 | not set | 168 | - | - | | isoxaben | Whole | 0.01 | not set | 168 | - | - | | isoxaflutole | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | linuron | Whole | 0.01 | not set | 168 | - | - | | MCPA | Whole | 0.01 | not set | 168 | - | - | | MCPB | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | mefenpyr-diethyl | Whole | 0.01 | not set | 168 | - | - | | mesotrione | Whole | 0.01 | not set | 168 | - | - | | metamitron | Whole | 0.01 | not set | 168 | - | - | | metazachlor | Whole | 0.01 | 0.03 | 168 | 0 | 0 | | methabenzthiazuron | Whole | 0.01 | not set | 168 | - | - | | metolachlor | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | metosulam | Whole | 0.01 | not set | 168 | - | - | | metribuzin | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | metsulfuron-methyl | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | napropamide | Whole | 0.01 | not set | 168 | - | - | | norflurazon | Whole | 0.01 | not set | 168 | - | - | | oryzalin | Whole | 0.01 | not set | 168 | - | - | | oxyfluorfen | Whole | 0.01 | not set | 168 | - | - | | paraquat | Whole | 0.01 | 1 | 35 | 0 | 0 | | pendimethalin | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | picloram | Whole | 0.01 | not set | 168 | - | - | | picolinafen | Whole | 0.01 | not set | 168 | - | - | | pinoxaden (parent) | Whole | 0.01 | not set | 168 | - | - | | prometryn | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | propachlor | Whole | 0.01 | not set | 168 | - | - | | propaquizafop | Whole | 0.01 | 0.05 | 35 | 0 | 0 | | propyzamide | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | prosulfocarb | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | pyraflufen-ethyl | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | pyrasulfotole | Whole | 0.01 | not set | 168 | - | - | | pyroxasulfone | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | pyroxsulam | Whole | 0.01 | not set | 168 | - | - | | quizalofop-ethyl | Whole | 0.01 | 0.2 | 35 | 0 | 0 | | quizalofop-P-tefuryl | Whole | 0.01 | 0.2 | 35 | 0 | 0 | | saflufenacil | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | sethoxydim | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | simazine | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | sulfosulfuron | Whole | 0.01 | not set | 168 | - | - | | terbuthylazine | Whole | 0.01 | 0.02 | 168 | 1 | 0 | | terbutryn | Whole | 0.01 | not set | 168 | - | - | | tiafenacil | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | topramezone | Whole | 0.01 | not set | 168 | - | - | | tralkoxydim | Whole | 0.01 | not set | 168 | - | - | | triallate | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | triasulfuron | Whole | 0.01 | not set | 168 | - | - | | tribenuron-methyl | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | triclopyr | Whole | 0.01 | not set | 168 | - | - | | trifludimoxazin | Whole | 0.01 | not set | 168 | - | - | | trifluralin | Whole | 0.01 | 0.05 | 168 | 0 | 0 | |  | | | | | | | |  |  |  |  |  |  |  | | **Table 4: INSECTICIDES** | | | | | | | | **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>½MRL to ≤MRL** | **>MRL** | | abamectin | Whole | 0.01 | not set | 168 | - | - | | acephate | Whole | 0.01 | not set | 168 | - | - | | acetamiprid | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | aldicarb | Whole | 0.01 | not set | 168 | - | - | | amitraz | Whole | 0.01 | not set | 168 | - | - | | azamethiphos | Whole | 0.01 | not set | 168 | - | - | | azinphos-methyl | Whole | 0.01 | not set | 168 | - | - | | bifenazate | Whole | 0.01 | 0.5 | 168 | 0 | 0 | | bifenthrin | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | bioresmethrin | Whole | 0.01 | not set | 168 | - | - | | buprofezin | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | cadusafos | Whole | 0.01 | not set | 168 | - | - | | carbaryl | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | carbofuran | Whole | 0.01 | not set | 168 | - | - | | chlorantraniliprole | Whole | 0.01 | 0.07 | 168 | 0 | 0 | | chlorfenapyr | Whole | 0.01 | not set | 168 | - | - | | chlorfenvinphos | Whole | 0.01 | not set | 168 | - | - | | chlorpyrifos | Whole | 0.01 | not set | 168 | - | - | | chlorpyrifos-methyl | Whole | 0.01 | 0.15 | 168 | 0 | 0 | | clofentezine | Whole | 0.01 | not set | 168 | - | - | | clothianidin | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | cyantraniliprole | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | cyfluthrin | Whole | 0.01 | not set | 168 | - | - | | cyhalothrin | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | cypermethrin | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | deltamethrin | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | diafenthiuron | Whole | 0.01 | not set | 168 | - | - | | diazinon | Whole | 0.01 | 0.7 | 168 | 0 | 0 | | dichlorvos | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | dicofol | Whole | 0.01 | not set | 168 | - | - | | diflubenzuron | Whole | 0.01 | not set | 168 | - | - | | dimethoate | Whole | 0.01 | 0.7 | 168 | 0 | 0 | | dinotefuran | Whole | 0.01 | not set | 168 | - | - | | disulfoton | Whole | 0.01 | not set | 168 | - | - | | emamectin | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | ethion | Whole | 0.01 | not set | 168 | - | - | | ethoprophos | Whole | 0.005 | not set | 168 | - | - | | etoxazole | Whole | 0.01 | not set | 168 | - | - | | fenamiphos | Whole | 0.01 | not set | 168 | - | - | | fenbutatin oxide | Whole | 0.01 | not set | 168 | - | - | | fenitrothion | Whole | 0.01 | 0.1 | 168 | 3 | 1 | | fenoxycarb | Whole | 0.01 | not set | 168 | - | - | | fenpyroximate | Whole | 0.01 | not set | 168 | - | - | | fenthion | Whole | 0.01 | not set | 168 | - | - | | fenvalerate | Whole | 0.01 | 0.5 | 168 | 0 | 0 | | fipronil | Whole | 0.002 | not set | 168 | - | - | | flonicamid | Whole | 0.01 | not set | 168 | - | - | | fluensulfone | Whole | 0.01 | 0.05 | 168 | 0 | 0 | | flupyradifurone | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | hexythiazox | Whole | 0.01 | not set | 168 | - | - | | imidacloprid | Whole | 0.01 | not set | 168 | - | - | | indoxacarb | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | malathion | Whole | 0.01 | 2 | 168 | 0 | 0 | | methacrifos | Whole | 0.01 | not set | 168 | - | - | | methamidophos | Whole | 0.01 | not set | 168 | - | - | | methidathion | Whole | 0.01 | not set | 168 | - | - | | methiocarb | Whole | 0.01 | not set | 168 | - | - | | methomyl | Whole | 0.01 | 1 | 168 | 0 | 0 | | methoprene | Whole | 0.01 | not set | 168 | - | - | | methoxychlor | Whole | 0.01 | not set | 168 | - | - | | methoxyfenozide | Whole | 0.01 | 2 | 168 | 0 | 0 | | mevinphos | Whole | 0.01 | not set | 168 | - | - | | monocrotophos | Whole | 0.01 | not set | 168 | - | - | | omethoate | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | parathion | Whole | 0.01 | not set | 168 | - | - | | parathion-methyl | Whole | 0.01 | not set | 168 | - | - | | permethrin | Whole | 0.01 | not set | 168 | - | - | | phenothrin | Whole | 0.01 | not set | 168 | - | - | | phorate | Whole | 0.01 | not set | 168 | - | - | | phosmet | Whole | 0.01 | not set | 168 | - | - | | piperonyl butoxide | Whole | 0.01 | 8 | 168 | 0 | 0 | | pirimicarb | Whole | 0.01 | 0.02 | 168 | 0 | 0 | | pirimiphos-methyl | Whole | 0.01 | not set | 168 | - | - | | profenofos | Whole | 0.01 | not set | 168 | - | - | | propargite | Whole | 0.01 | not set | 168 | - | - | | prothiofos | Whole | 0.01 | not set | 168 | - | - | | pymetrozine | Whole | 0.01 | not set | 168 | - | - | | pyrethrins | Whole | 0.01 | 1 | 168 | 0 | 0 | | pyriproxyfen | Whole | 0.01 | not set | 168 | - | - | | spinetoram | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | spinosad | Whole | 0.01 | 0.01 | 168 | 0 | 0 | | spirotetramat | Whole | 0.01 | not set | 168 | - | - | | sulfoxaflor | Whole | 0.01 | not set | 168 | - | - | | tau-fluvalinate | Whole | 0.01 | not set | 168 | - | - | | tebufenozide | Whole | 0.01 | not set | 168 | - | - | | tebufenpyrad | Whole | 0.01 | not set | 168 | - | - | | terbufos | Whole | 0.01 | not set | 168 | - | - | | tetradifon | Whole | 0.01 | not set | 168 | - | - | | thiacloprid | Whole | 0.01 | not set | 168 | - | - | | thiamethoxam | Whole | 0.01 | 0.5 | 168 | 0 | 0 | | thiodicarb | Whole | 0.01 | 0.1 | 168 | 0 | 0 | | triazofos | Whole | 0.01 | not set | 168 | - | - | | trichlorfon | Whole | 0.01 | 0.2 | 168 | 0 | 0 | | triflumuron | Whole | 0.01 | not set | 168 | - | - | |  | | | | | | | |  |  |  |  |  |  |  | | **Table 5: PHYSIOLOGICAL MODIFIER** | | | | | | | | **Chemical** | **Matrix** | **LOR (mg/kg)** | **MRL (mg/kg)** | **Number of samples tested** | **>½MRL to ≤MRL** | **>MRL** | | forchlorfenuron | Whole | 0.01 | not set | 168 | - | - | | prohexadione-calcium | Whole | 0.01 | not set | 168 | - | - | | trinexapac-ethyl | Whole | 0.01 | not set | 168 | - | - | |  | | | | | | | |  |  |  |  |  |  |  | | |  |
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