



## Report on Results

National Residue Survey 2004–2005

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## Background

### ***Residues and contaminants***

The National Residue Survey (NRS) was established under the *National Residue Survey Administration Act 1992 (Cwlth)* for the purpose of monitoring and reporting the level of contaminants<sup>4</sup> in food, inputs to production and/or the environment. The term 'residue' is used in this report to apply to both residues and contaminants.

Residues are classified as being *present* if their concentration is greater than the limit of reporting (LOR)<sup>5</sup> established for NRS purposes. NRS typically sets the LOR at 10 to 20 per cent of the Australian Standard<sup>6</sup> maximum residue limit (MRL)<sup>7</sup>, extraneous residue limit (ERL)<sup>8</sup> or maximum level (ML)<sup>9</sup>.

### ***Residues, health and trade***

In agriculture, the term *residue* is generally used to describe a small amount of a chemical or its breakdown products that remain in or on a product. In the context of food concerns, the term 'residue' also includes metals or other chemicals such as mycotoxins. These may be present in food either through natural circumstances or as a consequence of industrial or agricultural activities.

Conventional agricultural systems depend extensively on the use of a wide range of agricultural and veterinary chemicals. Current analytical technology can detect such chemicals at very low concentrations. It is therefore to be expected that a wide range of chemicals will be detected in agricultural products and, in fact, in all products of the natural environment.

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<sup>4</sup> See pp. 178–179 for definition of the terms residue and contaminant.

<sup>5</sup> See p. 179.

<sup>6</sup> See p. 179.

<sup>7</sup> See p. 178.

<sup>8</sup> See p. 178.

<sup>9</sup> See p. 179.

Under these circumstances the detection of a residue is not a matter of concern, except when the use of the relevant chemical is unauthorised, or its concentration is greater than a limit set in either the context of trade (domestic, export or import) or human health. In reality, human health is rarely an issue since Australian Standards for residues (MRLs) are set at levels necessary to meet health needs. Detection levels are usually less than the MRL, but even detections over the MRL are still low with regard to health concerns. This means that an occasional detection at or just above the MRL is not likely to cause any adverse health effects when the product is consumed. Food standards take into account residue levels that are normally likely to occur (environmental contaminants) and the amount that should not be exceeded if good agricultural practices have been followed (agvet chemicals). Climate, geography, pests, diseases and products vary from country to country and as a consequence there may be different limits set for particular residues in certain products in different countries.

The general purposes of residue monitoring are to:

- provide an estimate of the occurrence of residues in products (using systems based on sampling and statistical probability)
- confirm (or otherwise) that residues in products are below set limits
- alert responsible government authorities and industry if and when limits are exceeded, so that corrective action can be taken.

Where residue levels that exceed Australian Standards are found in NRS samples, traceback activities are the responsibility of the state or territory government authority from which the samples originate (See p. 57 for further details about the traceback process).

### ***Setting of Australian Standards***

Maximum residue limits (MRLs), extraneous residue limits (ERLs) and maximum levels (MLs) become Australian Standards in the Australia New Zealand Food Standards Code (Code) upon gazettal following consideration by Food Standards Australia New Zealand (FSANZ) and the Australia New Zealand Food Regulation Ministerial Council (ANZFRMC).

MRLs are set for all agvet chemicals registered for use in Australia. The Australian Pesticides & Veterinary Medicines Authority (APVMA) has a major role in this process. MRLs are proposed by APVMA at levels not likely to be exceeded if agvet chemicals are used in accordance with on-label directions, and have been shown by dietary exposure assessment to not pose a risk to human health. The term good agricultural (or veterinary) practice is applied to the use of agvet chemicals in accordance with their label directions.

All MRLs proposed by APVMA for food, agricultural commodities and animal feed are published in the APVMA MRL Standard. MRLs for food commodities are then considered

by FSANZ and, if endorsed by ANZFRMC, are adopted into the Code. NRS monitors residue levels against MRLs listed in the Code. However, where APVMA has established an MRL that has not yet been adopted into the Code, this fact is taken into consideration by NRS when interpreting the significance of any results that fall between existing and proposed MRLs.

ERLs are in a separate schedule within the Code.

MLs are set only where they serve an effective risk management function and only for foods that provide a significant contribution to dietary exposure to a particular contaminant. MLs are set at levels that are consistent with the protection of public health and safety, and are reasonably achievable through sound production and natural resource management practices.

### ***Interpreting the presence of residues in the absence of an Australian Standard***

The Code specifies that where no MRL or ERL has been set for a particular agvet chemical residue in a particular food, there must be no detectable level of that residue present and therefore any detectable residue is unacceptable. By contrast, where no ML has been set for a particular environmental contaminant in a food, food producers are expected to keep the level of contaminants as low as reasonably achievable, but it is accepted that a low level of contamination may be unavoidable.

In the results tables, the following terms are used to indicate residue standards that have not been established for a specific chemical–matrix combination:

- ‘not set’ for an agvet chemical in an edible matrix
- ‘nil’ for an agvet chemical in a non-edible matrix
- ‘no limit’ for an environmental contaminant in an edible matrix.

### ***Sample collection***

Sample collection rates are based on production levels of the agricultural commodity in Australia, or are as directed to accommodate overseas market access requirements if the commodity is to be exported. Sample requests are generated by NRS and forwarded to sample collection points.

Meat product samples for residue monitoring are sent from collection points to a central receipt and dispatch facility within NRS, where they are sorted into batches and forwarded to appropriate laboratories for testing. Authorised government officers at export abattoirs and quality control staff at domestic abattoirs collect the samples.

The allocation of samples to abattoirs in the sampling plan for random monitoring of meat depends on the numbers and species of animals being slaughtered at each abattoir. It is designed so that the probability of an abattoir being selected for sampling is proportional to the commodity throughput of that abattoir. Sample requests are sent to abattoirs each month, specifying the kind of product required and the production period during which samples are to be taken. Animals for sampling are then selected at random along the slaughter chain.

Honey samples are collected by officers of state and territory government authorities at appropriate stages of the production chain and are sent directly to laboratories for analysis.

Poultry and egg samples are collected by quality assurance officers at the relevant establishments and are forwarded either to the NRS central receipt and dispatch facility or are sent directly to the laboratories.

Samples for the fish (wild-caught) random monitoring project are collected from fish establishments by officers from the Australian Quarantine and Inspection Service (AQIS), NRS or state or territory government authorities. The samples are forwarded directly to the laboratories.

In the random monitoring project for plant-based commodities, authorised government officers, NRS staff and industry quality-control staff collect grain and horticulture samples at appropriate locations (e.g. export grain terminals, domestic grain establishments, flour mills, processing plants, produce packing houses and wholesale markets). Arrangements for sample collection vary with the commodity being tested, but NRS methods always include procedures to minimise any bias in sampling.

Export grain is sampled at terminals as ships are loaded. Each sample is collected, usually using automatic sampling equipment, as bulk grain is moved. Samples of wheat due to be milled (and the products derived from this process) are collected from domestic flourmills on randomly selected dates. Milled flour and bran samples are derived from sampled wheat so that the results provide information on the relative concentration of residues in each fraction. Grain is also sampled on delivery to domestic end users such as stock feed manufacturers, maltsters, feedlots and oilseed processors.

Grain and horticulture samples are boxed and freighted overnight directly to the appropriate laboratory. Up to two different laboratories may conduct the various grain and horticulture analyses. The first laboratory is responsible for sample registration and forwarding samples to the other laboratory (if relevant).

### ***Chemical–commodity selection***

Chemical–commodity combinations are selected on the basis of risk profiles. Those combinations of highest risk are identified for inclusion in NRS residue monitoring projects. In developing risk profiles, the main factors considered are:

- international and/or domestic perceptions of the chemical–commodity combination as a possible public health hazard
- the likelihood of residues occurring in the product (potential for misuse; persistence in the crop, animal or environment; extent of use; and use patterns)
- the extent and results of previous monitoring for the chemical–commodity combination
- the Australian Standards for residues and market access requirements of trading partners
- factors such as the availability of suitable sampling and analytical methods.

Importing countries sometimes require analyses for particular chemicals of concern in their country. Consequently, NRS may include chemicals not registered for use in Australia in its residue monitoring projects.

### ***Matrix analysed***

The matrix (tissue or material) expected to contain the highest concentration of a residue is usually selected for analysis. The matrix may be inedible, and does not necessarily represent the part most likely to be eaten (e.g. fat is analysed for pesticides; kidney is analysed for antibiotics; liver is analysed for metals; and, for some hormonal growth promotants, the matrix chosen for testing is urine or faeces). The levels of chemicals detected in such material are usually much higher than in meat.

### ***Sources of residues***

NRS monitoring for residues helps audit the use of currently registered agvet chemicals in Australia. At present, chemicals that may be detected include:

- antibiotics used to control microbial diseases in animals
- anthelmintics used to control internal parasites in animals
- hormonal growth promotants used as veterinary medicines or to improve growth in livestock
- fungicides used to control fungal diseases in plants and plant products
- insecticides and acaricides used to control insect and mite pests in crops, to protect grain, and to control external parasites on animals

- fumigants used as grain protectants, and to sterilise soil, storage sheds, animal houses and bee hives
- herbicides used to control weeds in crops.

Other sources of residues include those from the unintended exposure of plants and animals to chemicals that are no longer registered for use in Australia. Such chemicals include some organochlorine (OC) pesticides and polychlorinated biphenyl (PCB) compounds that can remain in the soil for long periods where livestock can accidentally ingest or come into contact with them and become contaminated.

### ***Environmental contaminants***

In this report the term ‘environmental contaminant’ refers to those chemicals in the natural environment that may contaminate agricultural produce. Such chemicals include some metals, some naturally occurring mycotoxins and some persistent organic pollutants. In this report, the results for OCs are included with the pesticide results, as although they can be considered environmental contaminants, their presence in the environment is the result of past use.

### ***Traceback of samples***

When a sample is detected with a residue that is above an Australian Standard or defined residue action level the laboratory immediately notifies NRS, which then informs the relevant state or territory government authority. State or territory government authority staff then trace the sample back to its property of origin. Subsequent actions depend on both the chemical detected and the commodity in which it is found, and are specified by state or territory government authority legislation. Action varies from simple advice in the case of a minor problem, to quarantining the property, or prosecution where serious contamination has occurred. NRS is notified of traceback activities and findings.

## Summary of results

### ***Overall results***

During 2004–2005, 20 322 samples were collected from 22 animal products (meat, honey, egg and fish) and 14 plant products (grain and horticulture) for NRS random monitoring projects<sup>11</sup>. In all, 343 593 analyses were undertaken on these samples.

Results of these analyses are compared with the Australian Standards applicable to the levels of residues or contaminants that are legally permissible in food. These Standards are included in the Australia New Zealand Food Standards Code.

Twenty-six samples had residues of agvet chemicals above Australian Standards (MRL/ ERL) limits. Two of these samples had residues where no Australian Standard is set. These detections are deemed contraventions.

Twenty samples contained environmental contaminants (metals) with residues above Australian standards (ML). These detections are deemed contraventions.

### ***Random monitoring (animal products)***

#### ***Meat***

Residue monitoring projects covered 12 meat commodities and 14 503 samples. The projects for beef, sheep and pig with 5 581, 4 627 and 3 001 samples respectively were the largest individual projects. In all, 190 163 analyses were undertaken.

Four residues were found that exceeded Australian Standards for agvet chemicals in edible tissue.

In non-edible matrices (urine and faeces of cattle, pig and horse), 61 detections were made. Australian Standards are not established for such non-edible matrices. Five sheep liver samples had cadmium levels that exceeded the (ML) of 1.25 mg/kg. Three lead residues in sheep livers and one lead residue in game pig liver were higher than the ML (0.5 mg/kg).

#### ***Honey***

Of the 72 honey samples tested and 936 analyses undertaken, none showed antibiotic residues above Australian Standards. Honey samples were tested for metals (selenium, zinc, aluminium and lead). Although metal detections were common, they were at expected levels for honey.

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<sup>11</sup> See pp. 21–31.

### ***Egg***

Of the 75 samples tested and 1 000 analyses carried out, only two samples showed agvet chemical residue levels above Australian Standards.

### ***Fish***

Eight wildcaught fish commodities were measured for residues: 523 analyses were undertaken on 125 samples. Ten environmental metal contaminants above the Australian Standard were detected.

## ***Random monitoring (plant products)***

### ***Grain***

The grain random monitoring project covered 10 commodities, with 4 974 samples being collected and 132 857 analyses undertaken. Wheat grain and its products (bran and flour) contributed the largest number of samples. There were 20 residues of agricultural chemicals detected above Australian Standards (MRL/ERL). Only one sample showed an environmental metal contamination level above the Australian Standard.

### ***Horticulture***

The horticulture residue monitoring project covered four commodities (apple and pear, blueberry, macadamia nut, onion) involving 573 samples and 18 115 analyses. One agricultural chemical residue was detected above the Australian Standard (MRL/ERL).

## ***Targeted monitoring, compliance and residue prevention projects***

Results of these projects (where applicable) are given in the Report on Operations (see p. 32).

## ***Summary of results for all random monitoring projects***

The table on the next page summarises the results of analyses from the major commodity groupings. Detailed tables and explanations of results for each NRS random monitoring project undertaken during the financial year 2004–2005 are presented in the following pages of this report.

Commodity	Total samples <sup>a</sup>	Total analyses <sup>b</sup>	Agvet residues > Aust Std [MRL/ERL] <sup>c</sup>	Number of residues in inedible tissue <sup>e</sup>	Number of environmental contaminants > Aust Std (ML)
<b>ANIMAL PRODUCTS</b>					
<i>Meat</i>					
Cattle	5 581	77 524	2	4	0
Sheep	4 627	57 939	0	0	8
Pig	3 001	27 986	2	57	0
Poultry	430	12 270	0	nt	nt
Goat	249	3 819	0	nt	0 <sup>d</sup>
Horse	143	2 256	0	0	0 <sup>d</sup>
Other meat species (includes ratite)	472	8 368	0	nt <sup>e</sup>	1
<i>Honey</i>	72	936	0	0	0
<i>Egg</i>	75	1 000	2	0	nt
<i>Fish (wildcaught)</i>	125	523	0	0	10
<b>PLANT PRODUCTS</b>					
<i>Cereal</i>					
Cereal grain	4 386	116 623	16	0	1
Flour and bran	188	5 108	1	0	0
Pulses	166	4 761	1	0	0
Canola	234	6 365	1	0	0
<i>Horticulture</i>					
Apple and pear	292	12 848	1	0	nt
Onion	101	2 981	0	0	nt
Macadamia nut	120	1 920	0	0	nt
Blueberry	60	366	0	0	nt
<b>Total all products</b>	<b>20 322</b>	<b>343 593</b>	<b>26</b>	<b>61</b>	<b>20</b>

- a Total number of samples collected from each species or commodity. For meat products these samples may be from muscle (meat), fat, kidney, liver, urine or faeces
- b Most samples are analysed for more than one chemical. This is the total number of chemical–commodity combinations that were specifically tested in each product type.
- c Number of residues observed above the Australian Standard (MRL or ERL), or the total number of residue detections for samples of inedible tissue (urine and faeces). Standards are not established in Australia for residues in urine and faeces, however samples of urine and faeces are analysed for some, generally unregistered, chemicals. Detection of a registered agvet chemical, or of a chemical that may be produced endogenously, in urine or faeces is not necessarily an indicator of illicit agvet chemical use. Individual samples may contain more than one residue.
- d MLs are not established for the contaminants included in this testing plan for horse or goat, other than for PCBs, of which no residues were found.
- e For deer, five urine samples were tested for  $\beta$ -agonists and five urine samples for hormones, with no residues found.
- nt Not tested

## Animal product results

### Meat

The meat residue monitoring projects are designed to support the market access of participating commodities to their principal export markets and to provide information to domestic consumers of the residue levels in these commodities. The broad-based testing approach of the residue monitoring projects also provides evidence of good practice in the use of agvet chemicals by the participating animal production industries. To address the specific residue monitoring requirements of importing countries, some chemicals are monitored that are not registered for use—nor are likely to be used—in Australian animal production systems.

During 2004–2005, 14 503 samples were collected. These samples were distributed between 12 meat commodities as shown below.

Commodity	Sample numbers	Commodity	Sample numbers
Cattle	5 581	Game pig	120
Sheep	4 627	Deer	116
Pig	3 001	Ratite (ostrich and emu)	111
Poultry	430	Kangaroo	100
Goat	249	Camel	15
Horse	143	Buffalo	10

Results of the analyses carried out on each meat commodity (in alphabetical order) are shown in the tables starting on page 66.

### Overview

In the reporting period 2004–2005, 190 157 analyses were undertaken on 14 503 samples. Thirteen residues (four agvet chemicals and nine metals) were found to be above applicable Australian Standards.

Australian Standards (MRLs and MLs) apply only to residues found in edible tissues. Sometimes a standard has not been set for some environmental contaminants (such as metals) in a particular matrix (e.g. offal in a particular species). Some residue monitoring is undertaken in non-edible matrices for monitoring purposes because residues of monitored chemicals in these matrices can be an indication of illegal or inappropriate use of those chemicals.

In non-edible matrices, chemicals were detected in 61 samples. Detections of ractopamine in pig urine accounted for 57 of these detections. Ractopamine, a veterinary drug used to promote feed efficiency, is registered for use in pigs. The remaining three detections in non-edible tissue were hormones in cattle urine, and likely to be endogenous in origin.

Traceback investigations are initiated only when there are reasonable grounds to believe the residue finding may have been the result of incorrect usage of an agvet chemical, as is discussed below.

### ***Anthelmintics***

Three classes of anthelmintics were monitored: macrocyclic lactones, benzimidazoles (triclabendazole in cattle and sheep), and salicylanilides (closantel in sheep). Samples tested were from cattle, sheep, pig, goat, horse, deer and ratite. One pig liver sample contained a residue of ivermectin (0.015 mg/kg), above the Australian Standard of 0.01 mg/kg. Traceback confirmed that the pig had been accidentally sold for slaughter before the expiry of the withholding period. The state authority issued the producer with a warning letter.

### ***Antibiotics***

Antibiotic chemicals are used in livestock to treat infections by micro-organisms (e.g. bacteria, protozoa, fungi) that cause a range of diseases.

Monitoring of antibiotic residues comprises a number of analytical and sampling regimes. A general antibiotics screen is performed on kidney and identifies the class of compound present (for example  $\beta$ -lactam, aminoglycoside, tetracycline or macrolide). Where the screen test identifies a class of compounds, confirmation and quantification is carried out by a specific high-performance liquid chromatography or gas chromatography method appropriate for the class of antibiotic.

Specific testing was undertaken for antibiotics including sulphonamides in kidney, and for chloramphenicol in muscle. Samples were tested from cattle, sheep, pig, poultry, horse, deer and ratites using the general screen for antibiotics. In addition, pig muscle was tested for dimetridazole. One residue contravention of sulfadimidine was found in pig (0.11 mg/kg) compared with the Australian standard of 0.1 mg/kg. A traceback was initiated, but the reason for the contravention could not be conclusively determined. The state authority issued a warning letter to the producer.

### ***Hormones***

Samples from edible (liver) and non-edible matrices (faeces and/or urine) of cattle, sheep and horse were tested for a range of hormonal growth promotants (HGPs). A number of HGPs are registered for use in cattle in Australia. Where AQIS is required to certify a product as free of HGPs (e.g. for the EU and some other markets), special production separation arrangements have been made. Hormone residues may occur legitimately in appropriately treated animals outside any HGP-free supply scheme, or may reflect endogenous production of these hormones (especially in young or pregnant animals), or can occur as a result of ingestion of naturally occurring chemicals with hormone-like characteristics (see zearalenone below).

### **Resorcylic acid lactones (zearanol)**

The HGP zearanol is closely related to the naturally occurring substance zearalenone. Zearalenone is a plant growth regulator produced by some plants and is also produced as a mycotoxin by *Fusarium* spp. which infects feed sources (grain and pasture). Livestock can metabolise zearalenone to zearanol ( $\alpha$ -zearalanol), taleranol ( $\beta$ -zearalanol),  $\alpha$ -zearalenol,  $\beta$ -zearalenol and zearalanone. Hence zearanol residues can occur in livestock either as a result of treatment with a HGP or by ingestion of feed containing zearalenone.

Zearanol derived from the metabolism of zearalenone in ruminants is indistinguishable from zearanol residues resulting from treatment with a growth promotant. For compliance reasons, it is important to differentiate the presence of zearanol residues due to HGP administration, from those residues due to natural exposure to zearalenone. Differentiation is based on the profile of zearanol/zearalenone-related residues. When zearanol occurs with other zearalenone metabolites, it is more than likely due to the ingestion of feed containing zearalenone. When zearanol occurs in the absence of other zearalenone metabolites, it is suggestive of the administration of a HGP containing zearanol.

One  $\alpha$ -zearalanol (zearanol) residue was found in a cattle liver. The residue was found in association with other zearalenone metabolites, which was strongly indicative of natural exposure via feed. A number of other zearalenone and metabolite detections were made in cattle faeces and in cattle, horse, sheep and pig liver without the  $\alpha$ -zearalanol residue being found. This is the expected finding for dietary exposure to feeds containing zearalenone.

### **Steroids**

Many steroidal compounds included in the testing programs may originate from either normal endocrine function (i.e. they are endogenous) or from the administration of veterinary drugs. There were two hormone detections in cattle urine, one of  $17\alpha$ -boldenone and  $17\alpha,19$ -nortestosterone, and another of  $17\alpha,19$ -nortestosterone only. At the levels detected, the residues were most likely from endogenous sex hormone production and tracebacks were not instigated.

### **Stilbenes**

No residues of stilbenes were detected in cattle, horse, pig, poultry or sheep samples tested.

### **Other veterinary drugs**

#### **$\beta$ -agonists**

Some  $\beta$ -agonists are registered in different countries for use as growth promotants. There is currently one  $\beta$ -agonist, ractopamine, registered in Australia for use only in pigs for enhancement of feed utilisation. Low level detections of ractopamine were found in 57 samples of pig urine, but at the levels found there was no suspicion of misuse of this drug.

### **Non-steroidal anti-inflammatory drugs**

No residues of flunixin, ketoprofen, oxyphenbutazone, phenylbutazone or tolfenamic acid were observed in any of the samples tested.

### ***Pesticides***

#### **Organochlorines, organophosphates and synthetic pyrethroids**

Organochlorines (OCs), organophosphates (OPs) and synthetic pyrethroid (SP) residues were monitored in 2 464 samples for all meat commodities except kangaroos (where SPs were not included in the testing plan) and poultry, where no pesticide testing was undertaken.

#### **Organochlorines**

Persistent OCs such as DDT, dieldrin, heptachlor, hexachlorocyclohexane (HCH) and hexachlorobenzene (HCB) have not been available for use on livestock since the 1970s. However, they are still present in soils where they were used for spot and broadacre pest control. Grazing livestock can ingest soil contaminated with these persistent OC compounds.

Low level OC residues were observed in a number of samples, and two cattle samples were found to contain residues of aldrin/dieldrin (0.24 and 1.3 mg/kg respectively) at levels above the Australian Standard of 0.2 mg/kg. Tracebacks were initiated, one of which (0.24 mg/kg sample) was not complete at the time of writing this report. Grazing of a heavily contaminated site at least 60 days prior to slaughter was confirmed as the source of the residue in the other sample (1.3 mg/kg). That property was issued with an infringement notice by the state authority and placed in the National Organochlorine Residue Management (NORM) project (see p. 33 of this report) that manages and restricts access of livestock to OC-contaminated land in Australia.

Endosulfan, a relatively non-persistent OC, is registered for use on certain crops, but is not for use on livestock (see p. 34 of this report for more details).

#### **Organophosphates**

OPs are used to control external parasites such as buffalo fly, blowfly, ticks and lice and also as protectants for grain used in feeds. No residues above the Australian Standards were observed in any of the samples tested.

#### **Synthetic pyrethroids**

SPs are used as external parasiticides in livestock, insecticides on crops, and also as protectants for grain used in feeds. No residues above the Australian Standards were observed in any of the samples tested.

**Benzoyl ureas and other pesticides**

Monitoring was also undertaken for benzoyl-urea insect growth-regulators (chlorfluazuron, diflubenzuron, fluazuron and triflumuron) in cattle and sheep, as well as dicyclanil and cyromazine (including its metabolite, melamine) in sheep. No samples exceeded the respective Australian Standards for these chemicals in the species tested.

***Environmental contaminants***

The metal residue screen tests for cadmium, lead and mercury in liver. There were five cadmium detections in sheep liver above the Australian Standard (ML) of 1.25 mg/kg. The residue levels ranged from 1.3 mg/kg to 1.7 mg/kg. Cadmium residues are commonly found in sheep offal, particularly in older animals across the southern states of Australia. A residue action level of 2.5 mg/kg has been agreed between NRS and state and territory government regulatory authorities for traceback purposes. None of the five residue detections were above the action level, so tracebacks were not initiated for these detections.

There were lead detections in liver above the Australian Standard (ML) of 0.5 mg/kg for sheep (three samples) and game pig (one sample). The residue levels ranged from 0.65 mg/kg to 1.1 mg/kg. During the year the agreed residue action level was reduced to 0.5 mg/kg (previously 1.0 mg/kg). Tracebacks were not instigated for two of the sheep detections as they were below the residue action level in force at the time. The traceback on the remaining sheep sample was completed, showing that batteries had been dumped in the area to which the sheep had access. The state authority issued a warning letter to the producer. Traceback on the game pig sample was inconclusive as the source of the animal could not be confirmed.



## BUFFALO

<b>BUFFALO</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	10	0	0
Chlordane	FAT	0.02	0.2	10	0	0
DDT	FAT	0.1	5	10	0	0
Endosulfan	FAT	0.02	0.2	10	0	0
HCB	FAT	0.02	1	10	0	0
HCH	FAT	0.02	0.3	10	2	0
Heptachlor	FAT	0.02	0.2	10	0	0
Lindane (γ HCH)	FAT	0.1	2	10	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	0.2	10	0	0
Chlorpyrifos	FAT	0.1	0.5	10	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	10	0	0
Coumaphos	FAT	0.2	1	10	0	0
Diazinon	FAT	0.1	0.7	10	0	0
Ethion	FAT	0.1	2.5	10	0	0
Famphur	FAT	0.02	0.05	10	0	0
Fenitrothion	FAT	0.02	0.05	10	0	0
Fenthion	FAT	0.05	1	10	0	0
Malathion	FAT	0.2	1	10	0	0
Phosmet	FAT	0.1	1	10	0	0
Temephos	FAT	0.1	5	10	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	10	0	0
Bioresmethrin	FAT	0.02	Not set	10	0	0
Cyfluthrin	FAT	0.02	0.5	10	0	0
Cyhalothrin	FAT	0.02	0.5	10	0	0
Cypermethrin	FAT	0.02	0.5	10	0	0
Deltamethrin	FAT	0.02	0.5	10	0	0
Fenvalerate	FAT	0.02	1	10	0	0
Flumethrin	FAT	0.02	0.2	10	0	0
Permethrin	FAT	0.02	1	10	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	10	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	10	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



CAMEL						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	10	0	0
Chlordane	FAT	0.02	0.2	10	0	0
DDT	FAT	0.1	5	10	0	0
Endosulfan	FAT	0.02	0.2	10	0	0
HCB	FAT	0.02	1	10	0	0
HCH	FAT	0.02	0.3	10	0	0
Heptachlor	FAT	0.02	0.2	10	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	2	10	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	Not set	10	0	0
Chlorpyrifos	FAT	0.1	0.5	10	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	10	0	0
Coumaphos	FAT	0.2	Not set	10	0	0
Diazinon	FAT	0.1	0.7	10	0	0
Ethion	FAT	0.1	Not set	10	0	0
Famphur	FAT	0.02	Not set	10	0	0
Fenitrothion	FAT	0.02	0.05	10	0	0
Fenthion	FAT	0.05	Not set	10	0	0
Malathion	FAT	0.2	1	10	0	0
Phosmet	FAT	0.1	Not set	10	0	0
Temephos	FAT	0.1	Not set	10	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	10	0	0
Bioresmethrin	FAT	0.02	Not set	10	0	0
Cyfluthrin	FAT	0.02	0.5	10	0	0
Cyhalothrin	FAT	0.02	0.5	10	0	0
Cypermethrin	FAT	0.02	0.01	10	0	0
Deltamethrin	FAT	0.02	Not set	10	0	0
Fenvalerate	FAT	0.02	1	10	0	0
Flumethrin	FAT	0.02	Not set	10	0	0
Permethrin	98145.451	0.02	1	10	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	10	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	10	0	0
<i>Metals</i>						
Cadmium	LIVER	0.02	No limit	5	5	n/a
Lead	LIVER	0.02	No limit	5	3	n/a
Mercury	LIVER	0.01	No limit	5	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



CATTLE

<b>CATTLE</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Benzimidazoles</i>						
Triclabendazole	LIVER	0.1	2	317	0	0
<i>Imidazothiazoles</i>						
Levamisole	LIVER	0.02	1	206	0	0
Macrocyclic lactones						
Abamectin	LIVER	0.005	0.1	329	0	0
Doramectin	LIVER	0.005	0.1	329	2	0
Emamectin	LIVER	0.005	0.01	329	0	0
Eprinomectin	LIVER	0.005	2	329	1	0
Ivermectin	LIVER	0.005	0.1	329	2	0
Moxidectin	LIVER	0.005	0.5	329	4	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	2	941	0	0
Dihydrostreptomycin	KIDNEY	0.1	0.3	941	0	0
Gentamycin	KIDNEY	0.1	Not set	941	0	0
Neomycin	KIDNEY	0.1	0.5	941	1	0
Streptomycin	KIDNEY	0.1	0.3	941	0	0
<i><math>\beta</math>-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	941	0	0
Ampicillin	KIDNEY	0.01	Not set	941	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	0.06	941	0	0
Cloxacillin	KIDNEY	0.1	Not set	941	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	2	935	0	0
Cefuroxime	KIDNEY	0.1	0.1	935	0	0
Cephalonium	KIDNEY	0.1	0.1	935	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	0.2	941	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	941	0	0
Tilmicosin	KIDNEY	0.2	1	941	0	0
Tylosin	KIDNEY	0.1	0.1	941	0	0
<i>Sulfonamides</i>						
Sulfadiazine	KIDNEY	0.05	0.1	941	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	941	0	0
Sulfadoxine	KIDNEY	0.05	0.1	941	0	0
Sulfafurazole	KIDNEY	0.05	Not set	941	0	0
Sulfamerazine	KIDNEY	0.05	Not set	935	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	935	0	0
Sulfapyridine	KIDNEY	0.05	Not set	935	0	0
Sulfaquinoxaline	KIDNEY	0.05	Not set	941	0	0
Sulfathiazole	KIDNEY	0.05	Not set	935	0	0
Sulfatroxazole	KIDNEY	0.05	0.1	941	0	0

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

**CATTLE** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	0.6	941	0	0
Doxycycline	KIDNEY	0.05	Not set	935	0	0
Oxytetracycline	KIDNEY	0.1	0.6	941	0	0
Tetracycline	KIDNEY	0.1	Not set	941	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	319	0	0
<b>HORMONES</b>						
<b>Corticosteroids</b>						
Betamethasone	LIVER	0.002	Not set	331	0	0
Dexamethasone	LIVER	0.002	0.1	331	0	0
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) [zeranol]	FAECES	0.002	Not defined	64	1 <sup>a</sup>	n/a
Zearalanol ( $\alpha$ ) [zeranol]	LIVER	0.002	0.02	346	1	0
<b>Steroids</b>						
19-Nortestosterone [17- $\alpha$ ]	URINE	0.001	Not defined	314	2 <sup>b</sup>	n/a
19-Nortestosterone [17- $\alpha$ ]	URINE	0.001	Not defined	314	0	n/a
Boldenone [17- $\alpha$ ]	URINE	0.001	Not defined	314	1 <sup>b</sup>	n/a
Boldenone [17- $\beta$ ]	URINE	0.001	Not defined	314	0	n/a
Methandriol	URINE	0.005	Not defined	314	0	n/a
Stanozolol	URINE	0.001	Not defined	314	0	n/a
Stanozolol [16-hydroxy]	URINE	0.001	Not defined	314	0	n/a
Trenbolone	FAECES	0.002	Not defined	64	0	n/a
Trenbolone	LIVER	0.002	0.01	326	0	0
<b>Stilbenes</b>						
Dienoestrol	FAECES	0.000	Not defined	64	0	n/a
Dienoestrol	LIVER	0.000	Not set	346	0	0
Diethylstilboestrol	FAECES	0.000	Not defined	64	0	n/a
Diethylstilboestrol	LIVER	0.000	Not set	346	0	0
Hexoestrol	FAECES	0.000	Not defined	64	0	n/a
Hexoestrol	LIVER	0.000	Not set	346	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	URINE	0.001	Not defined	331	0	n/a
Clenbuterol	URINE	0.001	Not defined	331	0	n/a
Mabuterol	URINE	0.001	Not defined	331	0	n/a
Ractopamine	URINE	0.001	Not defined	331	0	n/a
Salbutamol	URINE	0.001	Not defined	331	0	n/a

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

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

Not defined Standards not established in urine and faeces.

<sup>a</sup> residues consistent with exposure to naturally contaminated feed (see text).

<sup>b</sup> residues consistent with endogenous hormone production.



CATTLE

<b>CATTLE</b> <i>(continued)</i>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	0.02	326	0	0
Ketoprofen	LIVER	0.02	0.05	326	0	0
Oxyphenbutazone	LIVER	0.05	Not set	326	0	0
Phenylbutazone	LIVER	0.05	Not set	326	0	0
Tolfenamic Acid	LIVER	0.005	0.01	326	0	0
<b>PESTICIDES</b>						
<b>Benzoyl ureas</b>						
Chlorfluazuron	FAT	0.01	1	343	0	0
Diflubenzuron	FAT	0.01	0.02	343	0	0
Fluazuron	FAT	0.01	7	343	13	0
Triflumuron	FAT	0.01	0.05	343	0	0
<b>Organochlorines</b>						
Aldrin and Dieldrin	FAT	0.02	0.2	1 096	6	2 <sup>c</sup>
Chlordane	FAT	0.02	0.2	1 096	0	0
DDT	FAT	0.1	5	1 096	8	0
Endosulfan	FAT	0.02	0.2	1 096	0	0
HCB	FAT	0.02	1	1 096	0	0
HCH	FAT	0.02	0.3	1 096	1	0
Heptachlor	FAT	0.02	0.2	1 096	0	0
Lindan ( $\gamma$ HCH)	FAT	0.1	2	1 096	0	0
<b>Organophosphates</b>						
Chlorfenvinphos	FAT	0.05	0.2	1 096	3	0
Chlorpyrifos	FAT	0.1	0.5	1 096	1	0
Chlorpyrifos-methyl	FAT	0.02	0.05	1 096	0	0
Coumaphos	FAT	0.2	1	1 096	0	0
Diazinon	FAT	0.1	0.7	1 096	0	0
Ethion	FAT	0.1	2.5	1 096	0	0
Famphur	FAT	0.02	0.05	1 096	0	0
Fenitrothion	FAT	0.02	0.05	1 096	0	0
Fenthion	FAT	0.05	1	1 096	1	0
Malathion	FAT	0.2	1	1 096	0	0
Phosmet	FAT	0.1	1	1 096	0	0
Temephos	FAT	0.1	5	1 096	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*c* Grazing a contaminated site was the confirmed source of aldrin/dieldrin for one of the samples, with the property placed in the NORM program. The traceback for the second sample has not been completed at the time this report was prepared (see text).

**CATTLE** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Synthetic pyrethroids</b>						
Bifenthrin	FAT	0.02	2	1 096	0	0
Bioresmethrin	FAT	0.02	Not set	1 096	0	0
Cyfluthrin	FAT	0.02	0.5	1 096	0	0
Cyhalothrin	FAT	0.02	0.5	1 096	0	0
Cypermethrin	FAT	0.02	0.5	1 096	1	0
Deltamethrin	FAT	0.02	0.5	1 096	1	0
Fenvalerate	FAT	0.02	1	1 096	1	0
Flumethrin	FAT	0.02	0.2	1 096	0	0
Permethrin	FAT	0.02	1	1 096	1	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<b>Chlorinated biphenyls</b>						
PCBs Aroclor 1254	FAT	0.03	0.2	1 096	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	1 096	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	1.25	318	204	0
Lead	LIVER	0.02	0.5	318	72	0
Mercury	LIVER	0.01	No limit	318	7	n/a
<b>Mycotoxins</b>						
Zearalanol ( $\beta$ ) (talaranol)	FAECES	0.002	No limit	64	0	n/a
Zearalanol ( $\beta$ ) (talaranol)	LIVER	0.002	No limit	346	0	n/a
Zearalanone	FAECES	0.002	No limit	63	0	n/a
Zearalanone	LIVER	0.002	No limit	346	0	n/a
Zearalenol ( $\alpha$ )	FAECES	0.002	No limit	64	43	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	346	9	n/a
Zearalenol ( $\beta$ )	FAECES	0.002	No limit	64	53	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	346	26	n/a
Zearalenone	FAECES	0.002	No limit	64	31	n/a
Zearalenone	LIVER	0.002	No limit	346	2	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



## DEER

DEER						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	Not set	25	0	0
Doramectin	LIVER	0.005	Not set	25	0	0
Emamectin	LIVER	0.005	0.01	25	0	0
Eprinomectin	LIVER	0.005	2	25	0	0
Ivermectin	LIVER	0.005	0.01	25	0	0
Moxidectin	LIVER	0.005	0.2	25	0	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	2	25	0	0
Dihydrostreptomycin	KIDNEY	0.1	0.3	25	0	0
Gentamycin	KIDNEY	0.1	Not set	25	0	0
Neomycin	KIDNEY	0.1	0.5	25	0	0
Streptomycin	KIDNEY	0.1	0.3	25	0	0
<i><math>\beta</math>-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	25	0	0
Ampicillin	KIDNEY	0.01	Not set	25	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	0.06	25	0	0
Cloxacillin	KIDNEY	0.1	Not set	25	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	Not set	25	0	0
Cefuroxime	KIDNEY	0.1	Not set	25	0	0
Cephalonium	KIDNEY	0.1	Not set	25	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	0.2	25	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	25	0	0
Tilmicosin	KIDNEY	0.2	Not set	25	0	0
Tylosin	KIDNEY	0.1	Not set	25	0	0
<i>Sulfonamides</i>						
Sulfadiazine	KIDNEY	0.05	0.1	25	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	25	0	0
Sulfadoxine	KIDNEY	0.05	0.1	25	0	0
Sulfafurazole	KIDNEY	0.05	Not set	25	0	0
Sulfamerazine	KIDNEY	0.05	Not set	25	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	25	0	0
Sulfapyridine	KIDNEY	0.05	Not set	25	0	0
Sulfaquinoxaline	KIDNEY	0.05	Not set	25	0	0
Sulfathiazole	KIDNEY	0.05	Not set	25	0	0
Sulfatroxazole	KIDNEY	0.05	0.1	25	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

**DEER** (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	Not set	25	0	0
Doxycycline	KIDNEY	0.05	Not set	25	0	0
Oxytetracycline	KIDNEY	0.1	Not set	25	0	0
Tetracycline	KIDNEY	0.1	Not set	25	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	10	0	0
<b>HORMONES</b>						
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) [zeranol]	LIVER	0.002	Not set	5	0	0
<b>Steroids</b>						
19-Nortestosterone (17- $\alpha$ )	URINE	0.001	Not defined	5	0	n/a
19-Nortestosterone (17- $\beta$ )	URINE	0.001	Not defined	5	0	n/a
Boldenone (17- $\alpha$ )	URINE	0.001	Not defined	5	0	n/a
Boldenone (17- $\beta$ )	URINE	0.001	Not defined	5	0	n/a
Methandriol	URINE	0.005	Not defined	5	0	n/a
Stanozolol	URINE	0.001	Not defined	5	0	n/a
Stanozolol (16-hydroxy)	URINE	0.001	Not defined	5	0	n/a
<b>Stilbenes</b>						
Dienoestrol	LIVER	0.000	Not set	5	0	0
Diethylstilboestrol	LIVER	0.000	Not set	5	0	0
Hexoestrol	LIVER	0.000	Not set	5	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	URINE	0.001	Not defined	5	0	n/a
Clenbuterol	URINE	0.001	Not defined	5	0	n/a
Mabuterol	URINE	0.001	Not defined	5	0	n/a
Ractopamine	URINE	0.001	Not defined	5	0	n/a
Salbutamol	URINE	0.001	Not defined	5	0	n/a
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	Not set	5	0	0
Ketoprofen	LIVER	0.02	Not set	5	0	0
Oxyphenbutazone	LIVER	0.05	Not set	5	0	0
Phenylbutazone	LIVER	0.05	Not set	5	0	0
Tolfenamic Acid	LIVER	0.005	Not set	5	0	0

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

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

Not defined Standards not established in urine and faeces.



DEER

<b>DEER</b> <i>(continued)</i>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	26	0	0
Chlordane	FAT	0.02	0.2	26	0	0
DDT	FAT	0.1	5	26	0	0
Endosulfan	FAT	0.02	0.2	26	0	0
HCB	FAT	0.02	1	26	0	0
HCH	FAT	0.02	0.3	26	0	0
Heptachlor	FAT	0.02	0.2	26	0	0
Lindane (γ HCH)	FAT	0.1	2	26	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	0.2	26	0	0
Chlorpyrifos	FAT	0.1	0.5	26	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	26	0	0
Coumaphos	FAT	0.2	Not set	26	0	0
Diazinon	FAT	0.1	0.7	26	0	0
Ethion	FAT	0.1	Not set	26	0	0
Famphur	FAT	0.02	Not set	26	0	0
Fenitrothion	FAT	0.02	0.05	26	0	0
Fenthion	FAT	0.05	Not set	26	0	0
Malathion	FAT	0.2	1	26	0	0
Phosmet	FAT	0.1	Not set	26	0	0
Temephos	FAT	0.1	Not set	26	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	26	0	0
Bioresmethrin	FAT	0.02	Not set	26	0	0
Cyfluthrin	FAT	0.02	0.5	26	0	0
Cyhalothrin	FAT	0.02	0.5	26	0	0
Cypermethrin	FAT	0.02	0.5	26	0	0
Deltamethrin	FAT	0.02	Not set	26	0	0
Fenvalerate	FAT	0.02	1	26	0	0
Flumethrin	FAT	0.02	Not set	26	0	0
Permethrin	FAT	0.02	1	26	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	26	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	26	0	0
<i>Metals</i>						
Cadmium	LIVER	0.02	No limit	10	4	n/a
Lead	LIVER	0.02	No limit	10	7	n/a
Mercury	LIVER	0.01	No limit	10	0	n/a
<i>Mycotoxins</i>						
Zearalanol (β) (talaranol)	LIVER	0.002	No limit	5	0	n/a
Zearalanone	LIVER	0.002	No limit	5	0	n/a
Zearalenol (δ)	LIVER	0.002	No limit	5	0	n/a
Zearalenol (β)	LIVER	0.002	No limit	5	0	n/a
Zearalenone	LIVER	0.002	No limit	5	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



GAME PIG						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	75	0	0
Chlordane	FAT	0.02	0.2	75	1	0
DDT	FAT	0.1	5	75	1	0
Endosulfan	FAT	0.02	0.2	75	0	0
HCB	FAT	0.02	1	75	1	0
HCH	FAT	0.02	0.3	75	0	0
Heptachlor	FAT	0.02	0.2	75	0	0
Lindane (γ HCH)	FAT	0.1	2	75	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	Not set	75	0	0
Chlorpyrifos	FAT	0.1	0.5	75	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	75	0	0
Coumaphos	FAT	0.2	0.5	75	0	0
Diazinon	FAT	0.1	0.7	75	0	0
Ethion	FAT	0.1	Not set	75	0	0
Famphur	FAT	0.02	Not set	75	0	0
Fenitrothion	FAT	0.02	0.05	75	0	0
Fenthion	FAT	0.05	0.5	75	0	0
Malathion	FAT	0.2	1	75	0	0
Phosmet	FAT	0.1	0.1	75	0	0
Temephos	FAT	0.1	Not set	75	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	75	0	0
Bioresmethrin	FAT	0.02	Not set	75	0	0
Cyfluthrin	FAT	0.02	0.5	75	0	0
Cyhalothrin	FAT	0.02	0.5	75	0	0
Cypermethrin	FAT	0.02	0.05	75	0	0
Deltamethrin	FAT	0.02	0.1	75	0	0
Fenvalerate	FAT	0.02	1	75	0	0
Flumethrin	FAT	0.02	Not set	75	0	0
Permethrin	FAT	0.02	1	75	0	0
<i>Other</i>						
Sodium fluoroacetate (1080)	MUSCLE	0.05	Not set	20	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	75	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	75	0	0
<i>Metals</i>						
Cadmium	LIVER	0.02	1.25	25	9	0
Lead	LIVER	0.02	0.5	25	20	1 <sup>a</sup>
Mercury	LIVER	0.01	No limit	25	5	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*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. Detections of the contaminant at low levels are allowable.

*a* Traceback inconclusive. Source of animal could not be confirmed.



<b>GOAT</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	Not set	100	0	0
Doramectin	LIVER	0.005	Not set	100	0	0
Emamectin	LIVER	0.005	0.01	100	0	0
Eprinomectin	LIVER	0.005	Not set	100	0	0
Ivermectin	LIVER	0.005	Not set	100	0	0
Moxidectin	LIVER	0.005	Not set	100	0	0
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	99	0	0
Chlordane	FAT	0.02	0.2	99	0	0
DDT	FAT	0.1	5	99	0	0
Endosulfan	FAT	0.02	0.2	99	0	0
HCB	FAT	0.02	1	99	0	0
HCH	FAT	0.02	0.3	99	0	0
Heptachlor	FAT	0.02	0.2	99	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	2	99	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	0.2	99	0	0
Chlorpyrifos	FAT	0.1	0.5	99	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	99	0	0
Coumaphos	FAT	0.2	0.5	99	0	0
Diazinon	FAT	0.1	0.7	99	0	0
Ethion	FAT	0.1	Not set	99	0	0
Famphur	FAT	0.02	Not set	99	0	0
Fenitrothion	FAT	0.02	0.05	99	0	0
Fenthion	FAT	0.05	Not set	99	0	0
Malathion	FAT	0.2	1	99	0	0
Phosmet	FAT	0.1	0.05	99	0	0
Temephos	FAT	0.1	Not set	99	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	99	0	0
Bioresmethrin	FAT	0.02	Not set	99	0	0
Cyfluthrin	FAT	0.02	0.5	99	0	0
Cyhalothrin	FAT	0.02	0.5	99	0	0
Cypermethrin	FAT	0.02	0.5	99	0	0
Deltamethrin	FAT	0.02	0.1	99	0	0
Fenvalerate	FAT	0.02	1	99	0	0
Flumethrin	FAT	0.02	Not set	99	0	0
Permethrin	FAT	0.02	1	99	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*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. Detections of the contaminant at low levels are allowable.



**GOAT** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	99	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	99	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	No limit	50	18	n/a
Lead	LIVER	0.02	No limit	50	15	n/a
Mercury	LIVER	0.01	No limit	50	1	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



HORSE

<b>HORSE</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	Not set	10	0	0
Doramectin	LIVER	0.005	Not set	10	0	0
Emamectin	LIVER	0.005	0.01	10	0	0
Eprinomectin	LIVER	0.005	Not set	10	0	0
Ivermectin	LIVER	0.005	0.01	10	0	0
Moxidectin	LIVER	0.005	Not set	10	0	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	2	42	0	0
Dihydrostreptomycin	KIDNEY	0.1	0.3	42	0	0
Gentamycin	KIDNEY	0.1	Not set	42	0	0
Neomycin	KIDNEY	0.1	0.5	42	0	0
Streptomycin	KIDNEY	0.1	0.3	42	0	0
<i><math>\beta</math>-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	42	0	0
Ampicillin	KIDNEY	0.01	0.01	42	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	0.06	42	0	0
Cloxacillin	KIDNEY	0.1	Not set	42	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	Not set	41	0	0
Cefuroxime	KIDNEY	0.1	Not set	41	0	0
Cephalonium	KIDNEY	0.1	Not set	41	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	0.2	42	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	42	0	0
Tilmicosin	KIDNEY	0.2	Not set	42	0	0
Tylosin	KIDNEY	0.1	Not set	42	0	0
<i>Sulfonamides</i>						
Sulfadiazine	KIDNEY	0.05	0.1	42	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	42	0	0
Sulfadoxine	KIDNEY	0.05	0.1	42	0	0
Sulfafurazole	KIDNEY	0.05	Not set	42	0	0
Sulfamerazine	KIDNEY	0.05	Not set	41	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	41	0	0
Sulfapyridine	KIDNEY	0.05	Not set	41	0	0
Sulfaquinoxaline	KIDNEY	0.05	Not set	42	0	0
Sulfathiazole	KIDNEY	0.05	Not set	41	0	0
Sulfatroxazole	KIDNEY	0.05	0.1	42	0	0

*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.

**HORSE** (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	Not set	42	0	0
Doxycycline	KIDNEY	0.05	Not set	41	0	0
Oxytetracycline	KIDNEY	0.1	Not set	42	0	0
Tetracycline	KIDNEY	0.1	Not set	42	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	10	0	0
<b>HORMONES</b>						
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) [zeranol]	LIVER	0.002	Not set	11	0	0
<b>Steroids</b>						
19-Nortestosterone (17- $\alpha$ )	URINE	0.001	Not defined	10	0	n/a
19-Nortestosterone (17- $\beta$ )	URINE	0.001	Not defined	10	0	n/a
Boldenone (17- $\alpha$ )	URINE	0.001	Not defined	10	0	n/a
Boldenone (17- $\beta$ )	URINE	0.001	Not defined	10	0	n/a
Methandriol	URINE	0.005	Not defined	10	0	n/a
Stanozolol	URINE	0.001	Not defined	10	0	n/a
Stanozolol (16-hydroxy)	URINE	0.001	Not defined	10	0	n/a
Trenbolone	LIVER	0.002	Not set	11	0	0
<b>Stilbenes</b>						
Dienoestrol	LIVER	0.000	Not set	11	0	0
Diethylstilboestrol	LIVER	0.000	Not set	11	0	0
Hexoestrol	LIVER	0.000	Not set	11	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	URINE	0.001	Not defined	10	0	n/a
Clenbuterol	URINE	0.001	Not defined	10	0	n/a
Mabuterol	URINE	0.001	Not defined	10	0	n/a
Ractopamine	URINE	0.001	Not defined	10	0	n/a
Salbutamol	URINE	0.001	Not defined	10	0	n/a
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	Not set	11	0	0
Ketoprofen	LIVER	0.02	Not set	11	0	0
Oxyphenbutazone	LIVER	0.05	Not set	11	0	0
Phenylbutazone	LIVER	0.05	Not set	11	0	0
Tolfenamic Acid	LIVER	0.005	Not set	11	0	0

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

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

Not defined Standards not established in urine and faeces.

**HORSE** (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	19	1	0
Chlordane	FAT	0.02	0.2	19	0	0
DDT	FAT	0.1	5	19	0	0
Endosulfan	FAT	0.02	0.2	19	0	0
HCB	FAT	0.02	1	19	0	0
HCH	FAT	0.02	0.3	19	0	0
Heptachlor	FAT	0.02	0.2	19	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	2	19	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	Not set	19	0	0
Chlorpyrifos	FAT	0.1	0.5	19	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	19	0	0
Coumaphos	FAT	0.2	Not set	19	0	0
Diazinon	FAT	0.1	0.7	19	0	0
Ethion	FAT	0.1	Not set	19	0	0
Famphur	FAT	0.02	Not set	19	0	0
Fenitrothion	FAT	0.02	0.05	19	0	0
Fenthion	FAT	0.05	Not set	19	0	0
Malathion	FAT	0.2	1	19	0	0
Phosmet	FAT	0.1	Not set	19	0	0
Temephos	FAT	0.1	Not set	19	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	FAT	0.02	2	19	0	0
Bioresmethrin	FAT	0.02	Not set	19	0	0
Cyfluthrin	FAT	0.02	0.5	19	0	0
Cyhalothrin	FAT	0.02	0.5	19	0	0
Cypermethrin	FAT	0.02	0.05	19	0	0
Deltamethrin	FAT	0.02	Not set	19	0	0
Fenvalerate	FAT	0.02	1	19	0	0
Flumethrin	FAT	0.02	0.1	19	0	0
Permethrin	FAT	0.02	1	19	0	0

*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.


**HORSE** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	19	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	19	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	No limit	20	20	n/a
Lead	LIVER	0.02	No limit	20	19	n/a
Mercury	LIVER	0.01	No limit	20	10	n/a
<b>Mycotoxins</b>						
Zearalanol ( $\beta$ ) (taleranol)	LIVER	0.002	No limit	11	0	n/a
Zearalanone	LIVER	0.002	No limit	11	0	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	11	0	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	11	1	n/a
Zearalenone	LIVER	0.002	No limit	11	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>KANGAROO</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	FAT	0.02	0.2	75	0	0
Chlordane	FAT	0.02	0.2	75	0	0
DDT	FAT	0.1	5	75	0	0
Endosulfan	FAT	0.02	0.2	75	0	0
HCB	FAT	0.02	1	75	0	0
HCH	FAT	0.02	0.3	75	0	0
Heptachlor	FAT	0.02	0.2	75	0	0
Lindane (γ HCH)	FAT	0.1	2	75	0	0
<i>Organophosphates</i>						
Chlorfenvinphos	FAT	0.05	Not set	75	0	0
Chlorpyrifos	FAT	0.1	0.5	75	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	75	0	0
Coumaphos	FAT	0.2	Not set	75	0	0
Diazinon	FAT	0.1	0.7	75	0	0
Ethion	FAT	0.1	Not set	75	0	0
Famphur	FAT	0.02	Not set	75	0	0
Fenitrothion	FAT	0.02	0.05	75	0	0
Fenthion	FAT	0.05	Not set	75	0	0
Malathion	FAT	0.2	1	75	0	0
Phosmet	FAT	0.1	Not set	75	0	0
Temephos	FAT	0.1	Not set	75	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs Aroclor 1254	FAT	0.03	0.2	75	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	75	0	0
<i>Metals</i>						
Cadmium	LIVER	0.02	No limit	25	8	n/a
Lead	LIVER	0.02	No limit	25	19	n/a
Mercury	LIVER	0.01	No limit	25	2	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*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. Detections of the contaminant at low levels are allowable.



PIG

PIG						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	0.02	300	0	0
Doramectin	LIVER	0.005	0.05	300	0	0
Emamectin	LIVER	0.005	0.01	300	0	0
Eprinomectin	LIVER	0.005	Not set	300	0	0
Ivermectin	LIVER	0.005	0.01	300	1	1 <sup>a</sup>
Moxidectin	LIVER	0.005	Not set	300	0	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	2	305	0	0
Dihydrostreptomycin	KIDNEY	0.1	0.3	305	0	0
Gentamycin	KIDNEY	0.1	Not set	305	0	0
Neomycin	KIDNEY	0.1	0.5	305	0	0
Streptomycin	KIDNEY	0.1	0.3	305	0	0
<i>β-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	305	0	0
Ampicillin	KIDNEY	0.01	Not set	305	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	0.06	305	0	0
Cloxacillin	KIDNEY	0.1	Not set	305	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	Not set	303	0	0
Cefuroxime	KIDNEY	0.1	Not set	303	0	0
Cephalonium	KIDNEY	0.1	Not set	303	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	0.2	305	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	305	0	0
Tilmicosin	KIDNEY	0.2	1	305	0	0
Tylosin	KIDNEY	0.1	0.2	305	0	0
<i>Nitroimidazoles</i>						
Dimetridazole	MUSCLE	0.001	0.005	300	2	0
<i>Sulfonamides</i>						
Sulfadiazine	KIDNEY	0.05	0.1	305	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	305	1	1 <sup>b</sup>
Sulfadoxine	KIDNEY	0.05	0.1	305	0	0
Sulfafurazole	KIDNEY	0.05	Not set	305	0	0
Sulfamerazine	KIDNEY	0.05	Not set	303	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	303	0	0
Sulfapyridine	KIDNEY	0.05	Not set	303	0	0
Sulfaquinoxaline	KIDNEY	0.05	Not set	305	0	0
Sulfathiazole	KIDNEY	0.05	Not set	303	0	0
Sulfatroxazole	KIDNEY	0.05	0.1	305	0	0

*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.

*a* Accidental sale before expiry of withholding period. Warning letter issued (see text).

*b* Traceback inconclusive. Warning letter issued (see text).



PIG

<b>PIG (continued)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	0.6	305	15	0
Doxycycline	KIDNEY	0.05	Not set	303	0	0
Oxytetracycline	KIDNEY	0.1	0.6	305	7	0
Tetracycline	KIDNEY	0.1	Not set	305	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	299	0	0
<b>HORMONES</b>						
<b>Corticosteroids</b>						
Betamethasone	LIVER	0.002	Not set	298	0	0
Dexamethasone	LIVER	0.002	0.1	298	0	0
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) [zeranol]	LIVER	0.002	Not set	299	0	0
<b>Stilbenes</b>						
Dienoestrol	LIVER	0.000	Not set	299	0	0
Diethylstilboestrol	LIVER	0.000	Not set	299	0	0
Hexoestrol	LIVER	0.000	Not set	299	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	URINE	0.001	Not defined	296	0	n/a
Clenbuterol	URINE	0.001	Not defined	296	0	n/a
Mabuterol	URINE	0.001	Not defined	296	0	n/a
Ractopamine	URINE	0.001	Not defined	296	57 <sup>c</sup>	n/a
Salbutamol	URINE	0.001	Not defined	296	0	n/a
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	Not set	301	0	0
Ketoprofen	LIVER	0.02	Not set	301	0	0
Oxyphenbutazone	LIVER	0.05	Not set	301	0	0
Phenylbutazone	LIVER	0.05	Not set	301	0	0
Tolfenamic Acid	LIVER	0.005	0.1	301	0	0
<b>PESTICIDES</b>						
<b>Organochlorines</b>						
Aldrin and Dieldrin	FAT	0.02	0.2	299	0	0
Chlordane	FAT	0.02	0.2	299	0	0
DDT	FAT	0.1	5	299	1	0
Endosulfan	FAT	0.02	0.2	299	0	0
HCB	FAT	0.02	1	299	0	0
HCH	FAT	0.02	0.3	299	0	0
Heptachlor	FAT	0.02	0.2	299	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	2	299	0	0

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

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.

Not defined Standards not established in urine and faeces.

c Ractopamine is registered for use in pigs (see text).



## PIG (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Organophosphates</b>						
Chlorfenvinphos	FAT	0.05	Not set	299	0	0
Chlorpyrifos	FAT	0.1	0.5	299	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	299	0	0
Coumaphos	FAT	0.2	0.5	299	0	0
Diazinon	FAT	0.1	0.7	299	0	0
Ethion	FAT	0.1	Not set	299	0	0
Famphur	FAT	0.02	Not set	299	0	0
Fenitrothion	FAT	0.02	0.05	299	0	0
Fenthion	FAT	0.05	0.5	299	0	0
Malathion	FAT	0.2	1	299	0	0
Phosmet	FAT	0.1	0.1	299	0	0
Temephos	FAT	0.1	Not set	299	0	0
<b>Synthetic pyrethroids</b>						
Bifenthrin	FAT	0.02	2	299	0	0
Bioresmethrin	FAT	0.02	Not set	299	0	0
Cyfluthrin	FAT	0.02	0.5	299	0	0
Cyhalothrin	FAT	0.02	0.5	299	0	0
Cypermethrin	FAT	0.02	0.05	299	0	0
Deltamethrin	FAT	0.02	0.1	299	0	0
Fenvalerate	FAT	0.02	1	299	0	0
Flumethrin	FAT	0.02	Not set	299	0	0
Permethrin	FAT	0.02	1	299	1	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<b>Chlorinated biphenyls</b>						
PCBs Aroclor 1254	FAT	0.03	0.2	299	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	299	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	1.25	304	181	0
Lead	LIVER	0.02	0.5	304	27	0
Mercury	LIVER	0.01	No limit	304	45	n/a
<b>Mycotoxins</b>						
Zearalanol ( $\beta$ ) (taleranol)	LIVER	0.002	No limit	299	0	n/a
Zearalanone	LIVER	0.002	No limit	299	0	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	299	0	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	299	6	n/a
Zearalenone	LIVER	0.002	No limit	299	0	n/a

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

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

No limit No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



POULTRY

POULTRY						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTIBIOTICS</b>						
Aminoglycosides						
Apramycin	LIVER	0.5	1	400	0	0
Dihydrostreptomycin	LIVER	0.1	Not set	400	0	0
Gentamycin	LIVER	0.1	Not set	400	0	0
Neomycin	LIVER	0.1	0.5	400	0	0
Streptomycin	LIVER	0.1	Not set	400	0	0
<b><i>β-lactams</i></b>						
Amoxicillin	LIVER	0.01	0.01	400	0	0
Ampicillin	LIVER	0.01	Not set	400	0	0
Benzylpenicillin (penicillin G)	LIVER	0.01	0.06	400	0	0
Cloxacillin	LIVER	0.1	Not set	400	0	0
<b><i>Cephalosporins</i></b>						
Ceftiofur	LIVER	0.2	Not set	400	0	0
Cefuroxime	LIVER	0.1	Not set	400	0	0
Cephalonium	LIVER			400	0	
Lincosamides						
Lincomycin	LIVER	0.05	0.1	400	0	0
<b><i>Macrolides</i></b>						
Erythromycin	LIVER	0.1	0.3	400	0	0
Tilmicosin	LIVER	0.2	Not set	400	0	0
Tylosin	LIVER	0.1	0.2	400	0	0
<b><i>Sulfonamides</i></b>						
Sulfadiazine	LIVER	0.05	0.1	400	0	0
Sulfadimidine (sulfamethazine)	LIVER	0.05	0.1	400	0	0
Sulfadoxine	LIVER	0.05	Not set	400	0	0
Sulfafurazole	LIVER	0.05	Not set	400	0	0
Sulfamerazine	LIVER	0.05	Not set	400	0	0
Sulfamethoxydiazine	LIVER	0.05	Not set	400	0	0
Sulfapyridine	LIVER	0.05	Not set	400	0	0
Sulfaquinoxaline	LIVER	0.05	0.1	400	0	0
Sulfathiazole	LIVER	0.05	Not set	400	0	0
Sulfatroxazole	LIVER	0.05	Not set	400	0	0
<b><i>Tetracyclines</i></b>						
Chlortetracycline	LIVER	0.05	0.6	400	0	0
Doxycycline	LIVER	0.05	Not set	400	0	0
Oxytetracycline	LIVER	0.1	0.6	400	0	0
Tetracycline	LIVER	0.1	Not set	400	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

POULTRY *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>HORMONES</b>						
<i>Resorcylic acid lactones</i>						
Zearalanol ( $\alpha$ ) (zeranol)	LIVER	0.002	Not set	30	0	0
<i>Stilbenes</i>						
Dienoestrol	LIVER	0.000	Not set	30	0	0
Diethylstilboestrol	LIVER	0.000	Not set	30	0	0
Hexoestrol	LIVER	0.000	Not set	30	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Mycotoxins</i>						
Zearalanol ( $\beta$ ) (talernanol)	LIVER	0.002	No limit	30	0	n/a
Zearalanone	LIVER	0.002	No limit	30	0	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	30	0	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	30	0	n/a
Zearalenone	LIVER	0.002	No limit	30	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>RATITE</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	Not set	21	0	0
Doramectin	LIVER	0.005	Not set	21	0	0
Emamectin	LIVER	0.005	Not set	21	0	0
Eprinomectin	LIVER	0.005	Not set	21	0	0
Ivermectin	LIVER	0.005	Not set	21	0	0
Moxidectin	LIVER	0.005	Not set	21	0	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	1	18	0	0
Dihydrostreptomycin	KIDNEY	0.1	Not set	18	0	0
Gentamycin	KIDNEY	0.1	Not set	18	0	0
Neomycin	KIDNEY	0.1	0.5	18	0	0
Streptomycin	KIDNEY	0.1	Not set	18	0	0
<i><math>\beta</math>-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	18	0	0
Ampicillin	KIDNEY	0.01	Not set	18	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	Not set	18	0	0
Cloxacillin	KIDNEY	0.1	Not set	18	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	Not set	18	0	0
Cefuroxime	KIDNEY	0.1	Not set	18	0	0
Cephalonium	KIDNEY	0.1	Not set	18	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	0.1	18	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	18	0	0
Tilmicosin	KIDNEY	0.2	Not set	18	0	0
Tylosin	KIDNEY	0.1	0.2	18	0	0
<i>Sulfonamides</i>						
Sulfadiazine	KIDNEY	0.05	0.1	18	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	18	0	0
Sulfadoxine	KIDNEY	0.05	Not set	18	0	0
Sulfafurazole	KIDNEY	0.05	Not set	18	0	0
Sulfamerazine	KIDNEY	0.05	Not set	18	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	18	0	0
Sulfapyridine	KIDNEY	0.05	Not set	18	0	0
Sulfaquinoxaline	KIDNEY	0.05	0.1	18	0	0
Sulfathiazole	KIDNEY	0.05	Not set	18	0	0
Sulfatroxazole	KIDNEY	0.05	Not set	18	0	0

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



<b>RATITE</b> <i>(continued)</i>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	0.6	18	0	0
Doxycycline	KIDNEY	0.05	Not set	18	0	0
Oxytetracycline	KIDNEY	0.1	0.6	18	0	0
Tetracycline	KIDNEY	0.1	Not set	18	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	10	0	0
<b>HORMONES</b>						
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) [zeranol]	LIVER	0.002	Not set	5	0	0
<b>Stilbenes</b>						
Dienoestrol	LIVER	0.000	Not set	5	0	0
Diethylstilboestrol	LIVER	0.000	Not set	5	0	0
Hexoestrol	LIVER	0.000	Not set	5	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	MUSCLE	0.001	Not set	8	0	0
Clenbuterol	MUSCLE	0.001	Not set	8	0	0
Mabuterol	MUSCLE	0.001	Not set	8	0	0
Ractopamine	MUSCLE	0.001	Not set	8	0	0
Salbutamol	MUSCLE	0.001	Not set	8	0	0
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	Not set	10	0	0
Ketoprofen	LIVER	0.02	Not set	10	0	0
Oxyphenbutazone	LIVER	0.05	Not set	10	0	0
Phenylbutazone	LIVER	0.05	Not set	10	0	0
Tolfenamic Acid	LIVER	0.005	Not set	10	0	0
<b>PESTICIDES</b>						
<b>Organochlorines</b>						
Aldrin and Dieldrin	FAT	0.02	0.2	28	0	0
Chlordane	FAT	0.02	Not set	28	0	0
DDT	FAT	0.1	5	28	1	0
Endosulfan	FAT	0.02	0.2	28	0	0
HCB	FAT	0.02	1	28	0	0
HCH	FAT	0.02	0.3	28	0	0
Heptachlor	FAT	0.02	0.2	28	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	0.7	28	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



<b>RATITE</b> <i>(continued)</i>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Organophosphates</b>						
Chlorfenvinphos	FAT	0.05	Not set	28	0	0
Chlorpyrifos	FAT	0.1	0.1	28	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	28	0	0
Coumaphos	FAT	0.2	1	28	0	0
Diazinon	FAT	0.1	0.05	28	0	0
Ethion	FAT	0.1	Not set	28	0	0
Famphur	FAT	0.02	Not set	28	0	0
Fenitrothion	FAT	0.02	0.05	28	0	0
Fenthion	FAT	0.05	0.05	28	0	0
Malathion	FAT	0.2	1	28	0	0
Phosmet	FAT	0.1	Not set	28	0	0
Temephos	FAT	0.1	Not set	28	0	0
<b>Synthetic pyrethroids</b>						
Bifenthrin	FAT	0.02	0.05	28	0	0
Bioresmethrin	FAT	0.02	Not set	28	0	0
Cyfluthrin	FAT	0.02	0.01	28	0	0
Cyhalothrin	FAT	0.02	0.02	28	0	0
Cypermethrin	FAT	0.02	0.05	28	0	0
Deltamethrin	FAT	0.02	0.01	28	0	0
Fenvalerate	FAT	0.02	0.05	28	0	0
Flumethrin	FAT	0.02	Not set	28	0	0
Permethrin	FAT	0.02	0.1	28	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<b>Chlorinated biphenyls</b>						
PCBs Aroclor 1254	FAT	0.03	0.2	28	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	28	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	No limit	11	8	n/a
Lead	LIVER	0.02	0.5	11	10	0
Mercury	LIVER	0.01	No limit	11	0	n/a
<b>Mycotoxins</b>						
Zearalanol ( $\beta$ ) (taleranol)	LIVER	0.002	No limit	5	0	n/a
Zearalanone	LIVER	0.002	No limit	5	0	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	5	0	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	5	0	n/a
Zearalenone	LIVER	0.002	No limit	5	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



SHEEP						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTHELMINTICS</b>						
<i>Benzimidazoles</i>						
Triclabendazole	LIVER	0.1	2	197	0	0
<i>Imidazothiazoles</i>						
Levamisole	LIVER	0.02	1	192	2	0
<i>Macrocyclic lactones</i>						
Abamectin	LIVER	0.005	0.05	300	0	0
Doramectin	LIVER	0.005	0.05	300	0	0
Emamectin	LIVER	0.005	0.01	300	0	0
Eprinomectin	LIVER	0.005	Not set	300	0	0
Ivermectin	LIVER	0.005	0.015	300	0	0
Moxidectin	LIVER	0.005	0.05	300	9	0
<i>Salicylanilides</i>						
Closantel	LIVER	0.1	5	200	3	0
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	KIDNEY	0.5	2	782	0	0
Dihydrostreptomycin	KIDNEY	0.1	0.3	782	0	0
Gentamycin	KIDNEY	0.1	Not set	782	0	0
Neomycin	KIDNEY	0.1	0.5	782	0	0
Streptomycin	KIDNEY	0.1	0.3	782	0	0
<i><math>\beta</math>-lactams</i>						
Amoxicillin	KIDNEY	0.01	0.01	782	0	0
Ampicillin	KIDNEY	0.01	Not set	782	0	0
Benzylpenicillin (penicillin G)	KIDNEY	0.01	0.06	782	0	0
Cloxacillin	KIDNEY	0.1	Not set	782	0	0
<i>Cephalosporins</i>						
Ceftiofur	KIDNEY	0.2	Not set	780	0	0
Cefuroxime	KIDNEY	0.1	Not set	780	0	0
Cephalonium	KIDNEY	0.1	Not set	780	0	0
<i>Lincosamides</i>						
Lincomycin	KIDNEY	0.05	Not set	782	0	0
<i>Macrolides</i>						
Erythromycin	KIDNEY	0.1	0.3	782	0	0
Tilmicosin	KIDNEY	0.2	Not set	782	0	0
Tylosin	KIDNEY	0.1	Not set	782	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



SHEEP

<b>SHEEP (continued)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Sulfonamides</b>						
Sulfadiazine	KIDNEY	0.05	0.1	782	0	0
Sulfadimidine (sulfamethazine)	KIDNEY	0.05	0.1	782	0	0
Sulfadoxine	KIDNEY	0.05	0.1	782	0	0
Sulfafurazole	KIDNEY	0.05	Not set	782	0	0
Sulfamerazine	KIDNEY	0.05	Not set	780	0	0
Sulfamethoxydiazine	KIDNEY	0.05	Not set	780	0	0
Sulfapyridine	KIDNEY	0.05	Not set	780	0	0
Sulfaquinoxaline	KIDNEY	0.05	Not set	782	0	0
Sulfathiazole	KIDNEY	0.05	Not set	780	0	0
Sulfatroxazole	KIDNEY	0.05	0.1	782	0	0
<b>Tetracyclines</b>						
Chlortetracycline	KIDNEY	0.05	Not set	782	0	0
Doxycycline	KIDNEY	0.05	Not set	780	0	0
Oxytetracycline	KIDNEY	0.1	0.6	782	0	0
Tetracycline	KIDNEY	0.1	Not set	782	0	0
<b>Other</b>						
Chloramphenicol	MUSCLE	0.000	Not set	341	0	0
<b>HORMONES</b>						
<b>Resorcylic acid lactones</b>						
Zearalanol ( $\alpha$ ) (zeranol)	LIVER	0.002	Not set	223	0	0
<b>Steroids</b>						
19-Nortestosterone (17- $\alpha$ )	URINE	0.001	Not defined	149	0	n/a
19-Nortestosterone (17- $\beta$ )	URINE	0.001	Not defined	149	0	n/a
Boldenone (17- $\alpha$ )	URINE	0.001	Not defined	149	0	n/a
Boldenone (17- $\beta$ )	URINE	0.001	Not defined	149	0	n/a
Methandriol	URINE	0.005	Not defined	149	0	n/a
Stanozolol	URINE	0.001	Not defined	149	0	n/a
Stanozolol (16-hydroxy)	URINE	0.001	Not defined	149	0	n/a
Trenbolone	LIVER	0.002	Not set	147	0	0
<b>Stilbenes</b>						
Dienoestrol	LIVER	0.000	Not set	223	0	0
Diethylstilboestrol	LIVER	0.000	Not set	223	0	0
Hexoestrol	LIVER	0.000	Not set	223	0	0
<b>OTHER VETERINARY DRUGS</b>						
<b><math>\beta</math>-agonists</b>						
Cimaterol	URINE	0.001	Not defined	329	0	n/a
Clenbuterol	URINE	0.001	Not defined	329	0	n/a
Mabuterol	URINE	0.001	Not defined	329	0	n/a
Ractopamine	URINE	0.001	Not defined	329	0	n/a
Salbutamol	URINE	0.001	Not defined	329	0	n/a

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

Not set No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

Not defined Standards not established in urine and faeces.

**SHEEP** (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Non-steroidal anti-inflammatory drugs</b>						
Flunixin	LIVER	0.01	Not set	293	0	0
Ketoprofen	LIVER	0.02	Not set	293	0	0
Oxyphenbutazone	LIVER	0.05	Not set	293	0	0
Phenylbutazone	LIVER	0.05	Not set	293	0	0
Tolfenamic Acid	LIVER	0.005	Not set	293	0	0
<b>PESTICIDES</b>						
<b>Amidines</b>						
Cyromazine	KIDNEY	0.05	0.2	297	0	0
Dicyclanil	KIDNEY	0.05	0.3	297	0	0
Melamine	KIDNEY	0.05	Not set	297	0	0
<b>Benzoyl ureas</b>						
Chlorfluazuron	FAT	0.01	Not set	295	0	0
Diflubenzuron	FAT	0.01	0.05	295	0	0
Fluazuron	FAT	0.01	Not set	295	0	0
Triflumuron	FAT	0.01	2	295	7	0
<b>Organochlorines</b>						
Aldrin and Dieldrin	FAT	0.02	0.2	725	2	0
Chlordane	FAT	0.02	0.2	725	0	0
DDT	FAT	0.1	5	725	6	0
Endosulfan	FAT	0.02	0.2	725	0	0
HCB	FAT	0.02	1	725	1	0
HCH	FAT	0.02	0.3	725	1	0
Heptachlor	FAT	0.02	0.2	725	0	0
Lindane ( $\gamma$ HCH)	FAT	0.1	2	725	0	0
<b>Organophosphates</b>						
Chlorfenvinphos	FAT	0.05	0.2	725	0	0
Chlorpyrifos	FAT	0.1	0.5	725	0	0
Chlorpyrifos-methyl	FAT	0.02	0.05	725	0	0
Coumaphos	FAT	0.2	0.5	725	0	0
Diazinon	FAT	0.1	0.7	725	1	0
Ethion	FAT	0.1	Not set	725	0	0
Famphur	FAT	0.02	Not set	725	0	0
Fenitrothion	FAT	0.02	0.05	725	0	0
Fenthion	FAT	0.05	0.2	725	0	0
Malathion	FAT	0.2	1	725	0	0
Phosmet	FAT	0.1	0.05	725	0	0
Temephos	FAT	0.1	3	725	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



<b>SHEEP (continued)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Synthetic pyrethroids</b>						
Bifenthrin	FAT	0.02	2	725	1	0
Bioresmethrin	FAT	0.02	Not set	725	0	0
Cyfluthrin	FAT	0.02	0.5	725	0	0
Cyhalothrin	FAT	0.02	0.5	725	0	0
Cypermethrin	FAT	0.02	0.5	725	1	0
Deltamethrin	FAT	0.02	0.1	725	0	0
Fenvalerate	FAT	0.02	1	725	0	0
Flumethrin	FAT	0.02	Not set	725	0	0
Permethrin	FAT	0.02	1	725	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<b>Chlorinated biphenyls</b>						
PCBs Aroclor 1254	FAT	0.03	0.2	725	0	0
PCBs Aroclor 1260	FAT	0.03	0.2	725	0	0
<b>Metals</b>						
Cadmium	LIVER	0.02	1.25	304	261	5 <sup>a</sup>
Lead	LIVER	0.02	0.5	304	183	3 <sup>b</sup>
Mercury	LIVER	0.01	No limit	304	34	n/a
<b>Mycotoxins</b>						
Zearalanol ( $\beta$ ) (taleranol)	LIVER	0.002	No limit	223	0	n/a
Zearalanone	LIVER	0.002	No limit	223	0	n/a
Zearalenol ( $\alpha$ )	LIVER	0.002	No limit	223	2	n/a
Zearalenol ( $\beta$ )	LIVER	0.002	No limit	223	9	n/a
Zearalenone	LIVER	0.002	No limit	223	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.

*a* Cadmium residues below the action level for traceback (see text).

*b* Access to dumped batteries identified in one instance and a warning letter issued. Other two instances below action level for traceback (see text).



## Honey

During the reporting period 72 honey samples were subject to 13 analyses. All samples analysed complied with Australian Standards. The results of the analyses are shown in the table below.

HONEY						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Dihydrostreptomycin	WHOLE	0.2	Not set	72	0	0
Neomycin	WHOLE	0.2	Not set	72	0	0
Streptomycin	WHOLE	0.2	Not set	72	0	0
<i>Sulfonamides</i>						
Sulfadiazine	WHOLE	0.05	Not set	72	0	0
Sulfadimidine (sulfamethazine)	WHOLE	0.05	Not set	72	0	0
Sulfamerazine	WHOLE	0.05	Not set	72	0	0
<i>Tetracyclines</i>						
Chlortetracycline	WHOLE	0.05	Not set	72	0	0
Oxytetracycline	WHOLE	0.02	0.3	72	0	0
Tetracycline	WHOLE	0.05	Not set	72	0	0
<b>MACRONUTRIENT METALS</b>						
Selenium	WHOLE	0.01	Not set	72	28	n/a
Zinc	WHOLE	0.05	Not set	72	72	n/a
<b>ENVIRONMENTAL CONTAMINANTS</b>						
Metals						
Aluminium	WHOLE	0.2	No limit	72	66	n/a
Lead	WHOLE	0.01	No limit	72	62	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



EGG

**Egg**

During 2004–2005, 75 egg samples were subject to 40 analyses. Two samples showed residue levels above the Australian Standard. Both residues were from anticoccidials. One sample was thought to be the result of a mix-up with feed, and traceback for the other sample was not complete at time of going to press.

The results of the analyses are shown in the table below.

EGG						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of Analyses	Number of Residues	Number > Aust Std
<b>ANTIBIOTICS</b>						
<i>Aminoglycosides</i>						
Apramycin	WHOLE	0.5	Not set	25	0	0
Dihydrostreptomycin	WHOLE	0.1	Not set	25	0	0
Gentamycin	WHOLE	0.1	Not set	25	0	0
Neomycin	WHOLE	0.1	0.5	25	0	0
Streptomycin	WHOLE	0.1	Not set	25	0	0
<i>β-lactams</i>						
Amoxicillin	WHOLE	0.01	Not set	25	0	0
Ampicillin	WHOLE	0.01	Not set	25	0	0
Benzylpenicillin (penicillin G)	WHOLE	0.01	Not set	25	0	0
Cloxacillin	WHOLE	0.1	Not set	25	0	0
<i>Cephalosporins</i>						
Ceftiofur	WHOLE	0.2	Not set	25	0	0
Cefuroxime	WHOLE	0.1	Not set	25	0	0
Cephalonium	WHOLE	0.1	Not set	25	0	0
<i>Lincosamides</i>						
Lincomycin	WHOLE	0.05	0.2	25	0	0
<i>Macrolides</i>						
Erythromycin	WHOLE	0.1	Not set	25	0	0
Tilmicosin	WHOLE	0.2	Not set	25	0	0
Tylosin	WHOLE	0.1	0.2	25	0	0
<i>Nitrofurans</i>						
1-Aminohydantoin (AHD)	WHOLE	0.001	Not set	25	0	0
3-Amino-2-oxazolidinone (AOZ)	WHOLE	0.001	Not set	25	0	0
3-Amino-5-morpholinomethyl-1,3-oxazolidin-2-one	WHOLE	0.001	Not set	25	0	0
Semicarbazide (SEM)	WHOLE	0.001	Not set	25	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



## EGG (continued)

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of Analyses	Number of Residues	Number > Aust Std
<b>Sulfonamides</b>						
Sulfadiazine	WHOLE	0.05	Not set	25	0	0
Sulfadimidine (sulfamethazine)	WHOLE	0.05	Not set	25	0	0
Sulfadoxine	WHOLE	0.05	Not set	25	0	0
Sulfafurazole	WHOLE	0.05	Not set	25	0	0
Sulfamerazine	WHOLE	0.05	Not set	25	0	0
Sulfamethoxydiazine	WHOLE	0.05	Not set	25	0	0
Sulfapyridine	WHOLE	0.05	Not set	25	0	0
Sulfaquinoxaline	WHOLE	0.05	Not set	25	0	0
Sulfathiazole	WHOLE	0.05	Not set	25	0	0
Sulfatroxazole	WHOLE	0.05	Not set	25	0	0
<b>Tetracyclines</b>						
Chlortetracycline	WHOLE	0.05	0.2	25	0	0
Doxycycline	WHOLE	0.05	Not set	25	0	0
Oxytetracycline	WHOLE	0.1	Not set	25	0	0
Tetracycline	WHOLE	0.1	Not set	25	0	0
<b>ANTICOCCIDIALS</b>						
Amprolium	WHOLE	0.03	4	25	0	0
Lasalocid	WHOLE	0.03	0.05	25	1	1 <sup>a</sup>
Monensin	WHOLE	0.03	Not set	25	0	0
Narasin	WHOLE	0.03	Not set	25	0	0
Nicarbazin	WHOLE	0.03	Not set	25	1	1 <sup>b</sup>
Salinomycin	WHOLE	0.03	0.02	25	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*a* Residue the result of possible mix-up with feed.

*b* The traceback for this sample was not complete at time of going to press.



## FISH

**Fish**

The fish products (wildcaught) residue random monitoring projects were designed to meet AQIS export certification and EU requirements. Eight exported wildcaught seafood products (15 species) were sampled (125 samples).

The selected wildcaught species are representatives of molluscs, crustaceans and finfish that represent various levels in the food chain. Selected species, which are reviewed and varied each year, are sampled from a wide range of biogeographical regions aimed at providing long-term information that can be used to develop a residue profile of each area.

During 2004–2005 samples were collected from each taxonomic group as listed below.

Group	Species	Number of samples
<b>Molluscs</b>		
Abalone	<i>Haliotis rubra</i>	13
	<i>Haliotis laevigata</i>	11
Scallop	<i>Pecten fumatus</i>	5
	<i>Amusium balotti</i>	21
<b>Crustaceans</b>		
Rock lobster	<i>Jasus edwardsii</i>	19
	<i>Panulirus cygnus</i>	11
	<i>Panulirus ornatus</i>	4
Prawn	<i>Panaeus esculentus</i>	13
	<i>Panaeus plepejus</i>	13
	<i>Panaeus merguinsis</i>	4
	<i>Metapanaeus endeavouri</i>	2
<b>Finfish</b>		
Alfonsino	<i>Beryx decadactylus</i>	3
Blue grenadier	<i>Macruronus novaezelandiae</i>	3
Swordfish	<i>Xiphias gladius</i>	2
Yellowfin tuna	<i>Thunnus albacares</i>	1
<b>Total</b>		<b>125</b>

Wildcaught samples were tested for persistent organic pollutants, including PCBs, environmental contaminants and heavy metals. Not all products were tested for all classes of chemicals.

All samples tested complied with Australian standards (MRLs or ML as applicable) except for scallop and swordfish. Eight of the 26 scallop samples tested for inorganic arsenic were above the Australian standard of 1 mg/kg and one of the two swordfish samples tested for total mercury and methyl-mercury was above the Australian standard of 1 mg/kg.

The results tables follow in alphabetical order by common name.



ABALONE						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Metals</i>						
Antimony	MUSCLE	0.01	No limit	13	0	n/a
Arsenic (inorganic)	MUSCLE	0.05	1	24	10	0
Cadmium	MUSCLE	0.01	2	13	13	0
Chromium	MUSCLE	0.05	No limit	13	7	n/a
Lead	MUSCLE	0.01	2	13	5	0

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>ALFONSINO</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	MUSCLE	0.02	0.1	3	0	0
Chlordane	MUSCLE	0.02	0.05	3	0	0
DDT	MUSCLE	0.02	1	3	0	0
Endrin	MUSCLE	0.02	Not set	3	0	0
HCB	MUSCLE	0.02	0.1	3	0	0
Heptachlor	MUSCLE	0.02	0.05	3	0	0
Mirex	MUSCLE	0.05	Not set	3	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	MUSCLE	0.03	0.5	3	0	0
PCBs (Aroclor 1260)	MUSCLE	0.03	0.5	3	0	0
<i>Metals</i>						
Antimony	MUSCLE	0.01	No limit	1	0	n/a
Arsenic (inorganic)	MUSCLE	0.05	2	3	1	0
Cadmium	MUSCLE	0.01	No limit	1	0	n/a
Chromium	MUSCLE	0.05	No limit	1	0	n/a
Lead	MUSCLE	0.01	0.5	1	0	0
Mercury	MUSCLE	0.01	0.5	3	3	0
Methyl-mercury	MUSCLE	0.025	0.5	3	3	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



BLUE GRENADIER						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and Dieldrin	MUSCLE	0.02	0.1	2	0	0
Chlordane	MUSCLE	0.02	0.05	2	0	0
DDT	MUSCLE	0.02	1	2	0	0
Endrin	MUSCLE	0.02	Not set	2	0	0
HCB	MUSCLE	0.02	0.1	2	0	0
Heptachlor	MUSCLE	0.02	0.05	2	0	0
Mirex	MUSCLE	0.05	Not set	2	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	MUSCLE	0.03	0.5	2	0	0
PCBs (Aroclor 1260)	MUSCLE	0.03	0.5	2	0	0
<i>Metals</i>						
Antimony	MUSCLE	0.01	No limit	2	0	n/a
Arsenic (inorganic)	MUSCLE	0.01	2	3	0	0
Cadmium	MUSCLE	0.01	No limit	2	0	n/a
Chromium	MUSCLE	0.05	No limit	2	0	n/a
Lead	MUSCLE	0.01	0.5	2	0	0
Mercury	MUSCLE	0.01	0.5	2	2	0
Methyl-mercury	MUSCLE	0.025	0.5	2	2	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



PRAWN

PRAWN						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Metals</i>						
Antimony	FLESH	0.01	No limit	32	0	n/a
Arsenic (inorganic)	FLESH	0.05	2	32	4	0
Cadmium	FLESH	0.01	No limit	32	32	n/a
Chromium	FLESH	0.05	No limit	32	0	n/a
Lead	FLESH	0.01	No limit	32	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



ROCK LOBSTER						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Metals</i>						
Antimony	FLESH	0.01	No limit	16	0	n/a
Arsenic (inorganic)	FLESH	0.05	2	34	7	0
Cadmium	FLESH	0.01	No limit	16	9	n/a
Chromium	FLESH	0.05	No limit	16	0	n/a
Lead	FLESH	0.01	No limit	16	1	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



SCALLOP

SCALLOP						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Metals</i>						
Antimony	MUSCLE	0.01	No limit	13	0	n/a
Arsenic (inorganic)	MUSCLE	0.05	1	26	23	8 <sup>a</sup>
Cadmium	MUSCLE	0.01	2	13	13	0
Chromium	MUSCLE	0.05	No limit	13	0	n/a
Lead	MUSCLE	0.01	2	13	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.

*a* Results are the subject of further investigation.



SWORDFISH						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and dieldrin	MUSCLE	0.02	0.1	2	0	0
Chlordane	MUSCLE	0.02	0.05	2	0	0
DDT	MUSCLE	0.02	1	2	0	0
Endrin	MUSCLE	0.02	Not set	2	0	0
HCB	MUSCLE	0.02	0.1	2	0	0
Heptachlor	MUSCLE	0.02	0.05	2	0	0
Mirex	MUSCLE	0.05	Not set	2	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	MUSCLE	0.03	0.5	2	0	0
PCBs (Aroclor 1260)	MUSCLE	0.03	0.5	2	0	0
<i>Metals</i>						
Antimony	MUSCLE	0.01	No limit	1	0	n/a
Arsenic (inorganic)	MUSCLE	0.01	2	2	0	0
Cadmium	MUSCLE	0.01	No limit	1	1	n/a
Chromium	MUSCLE	0.05	No limit	1	0	n/a
Lead	MUSCLE	0.01	0.5	1	0	0
Mercury (total)	MUSCLE	0.01	1	2	2	1 <sup>a</sup>
Methyl-mercury	MUSCLE	0.025	1	2	2	1 <sup>a</sup>

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.

*a* Results notified to relevant authorities. Levels for both total mercury and methyl-mercury were above the ML (1 mg/kg) in the same sample.



YELLOWFIN TUNA

YELLOWFIN TUNA						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Organochlorines</i>						
Aldrin and dieldrin	MUSCLE	0.02	0.1	1	0	0
Chlordane	MUSCLE	0.02	0.05	1	0	0
DDT	MUSCLE	0.02	1	1	0	0
Endrin	MUSCLE	0.02	Not set	1	0	0
HCB	MUSCLE	0.02	0.1	1	0	0
Heptachlor	MUSCLE	0.02	0.05	1	0	0
Mirex	MUSCLE	0.05	Not set	1	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	MUSCLE	0.03	0.5	1	0	0
PCBs (Aroclor 1260)	MUSCLE	0.03	0.5	1	0	0
Metals						
Arsenic (inorganic)	MUSCLE	0.01	2	1	0	0

*Not set*      *No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code..*

## Plant product results

### Grain

During 2004–2005, 4 974 samples of grain were collected from ten grain commodities as shown in the table below.

Commodity	Sample numbers	Commodity	Sample numbers
Wheat	2 823	Canola	234
Wheat (bran)	94	Lupin	103
Wheat (flour)	94	Field Pea	52
Barley	1 237	Oat	73
Sorghum	253	Chickpea	11

The results tables for grain (in alphabetical order by commodity name) begin on page 110.

### Pesticides

A range of pesticides is used either in-crop or for post-harvest grain protection. A multi-residue screen is used to detect residues of such chemicals registered for use in Australia, as well as some chemicals of concern to industry that are registered in overseas markets for use on grains. The principal groups of pesticides covered are organophosphate insecticides, synthetic pyrethroid insecticides, carbamate insecticides, insect growth regulators, other insecticides and some fungicides. The screen was conducted on all 4,974 samples.

All but 17 samples complied with Australian Food Standards. In the grain subprojects there were two residue violations in the bulk export project, two violations in the milled products project and 13 violations in the domestic project.

No residue violations were found in any samples of barley, chickpeas, field peas and lupins.

There was one residue violation of the fungicide triadimefon in canola, three violations from indoxacarb residues in sorghum, six residues violations of fenitrothion in oats and eight residue violations in wheat (chlorpyrifos [2], chlorpyrifos-methyl [1], fenitrothion [1], flutriafol [1 grain, 1 flour], triadimefon [1], iprodione [1]).

There is no MRL for triadimefon residues in canola and therefore the 0.088 mg/kg result is deemed to be a violation. The traceback investigation found that 16 growers had supplied canola during the sampling period. A notice was sent to all growers alerting them to the use of unregistered chemicals.

All six violative residues of fenitrothion in oats were related to inappropriate application of the grain protectant. Follow-up tests on the processed grain found the residue levels to be below the MRL. However, the traceback investigator reported that regulatory action may be taken against the contractor who applied the chemical.

There is no MRL for indoxacarb residues in sorghum and therefore the readings of 0.010 mg/kg, 0.013mg/kg and 0.050 mg/kg are deemed to be violations. The traceback investigation into the three indoxacarb residues in sorghum was incomplete at the time of writing. Given that there is no registered use of indoxacarb on sorghum, the likely causes are either spray-drift or use of an unregistered chemical.

There is no registered use of the fungicide iprodione on wheat and no corresponding MRL. Therefore the detection of 0.014 mg/kg of iprodione residue is deemed a violation. The sample also contained violative residues of triadimefon at 0.62 mg/kg (MRL 0.5 mg/kg). The traceback investigator concluded that a low level cross-contamination from other treated grain may have occurred.

The traceback investigation into the two chlorpyrifos residues in wheat commenced in early July 2005 and is ongoing.

Chlorpyrifos-methyl residues of 11.0 mg/kg (MRL 10 mg/kg) were found in a wheat sample. The traceback investigation was inconclusive.

A traceback investigation concluded poor on-farm practices were the cause of a fenitrothion residue of 20.8 mg/kg (MRL 10 mg/kg) in a wheat sample. Follow-up sampling and testing of the processed grain found residues of fenitrothion well below the MRL.

In the milled grain project, only two of the 282 randomly collected samples taken during the reporting period contained residues above the appropriate Australian Standard. These samples relate to a wheat grain sample and its corresponding flour sample. The wheat sample contained flutriafol residues of 0.022 mg/kg (MRL 0.02 mg/kg) and the flour sample a flutriafol residue level of 0.046 mg/kg (MRL 0.02 mg/kg). The corresponding bran sample contained flutriafol residues at 0.02 mg/kg, equal to the MRL. The traceback investigation was inconclusive as more than 100 growers supplied grain to the flour mill.

### ***Fumigants***

During the reporting period, 90 grain samples were selected at random by the multi-residue screen testing laboratory and forwarded to the phosphine testing laboratory, to determine total phosphine residues. Where residues were detected equal to or above 0.002 mg/kg, the original sample underwent further analysis to determine the component of the residue due to unreacted phosphide and/or absorbed phosphine.

There were two contraventions, one each in wheat and field pea. The phosphine residue level in wheat was 0.11 mg/kg (MRL 0.1 mg/kg). The traceback investigation could not determine the cause of the violation. With the field pea violation, the investigation found that the grower had added excess phosphine tablets as the grain was being loaded into storage bins. A warning letter from the state regulatory authority was sent to the grower.

### ***Organochlorines***

This test covers a range of chemicals that were once widely used in agriculture and are known to persist in the environment. In addition to detecting these older organochlorine pesticides, the test method also covers endosulfan, a relatively non-persistent organochlorine registered for broadacre agricultural uses.

There were no detections of organochlorines in any grain sample tested.

### ***Environmental contaminants***

Tests for a range of environmental metal contaminants were conducted on 365 samples. Only one sample of barley contained lead levels (0.26 mg/kg) above the Australian Standard (0.2 mg/kg). Further sampling of the grain out-turn showed the lead levels to be below Australian Standards.



**BARLEY (GRAIN)**

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.1	21	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	1 237	0	0
Iprodione	WHOLE	0.01	Not set	1 237	0	0
Tebuconazole	WHOLE	0.05	0.2	1 237	0	0
Triadimefon	WHOLE	0.01	0.5	1 237	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	2	1 237	84	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	73	0	0
Chlordane	WHOLE	0.01	0.02	73	0	0
DDT	WHOLE	0.01	0.1	73	0	0
Endosulfan	WHOLE	0.02	0.2	73	0	0
Endrin	WHOLE	0.01	Not set	73	0	0
HCB	WHOLE	0.01	0.05	73	0	0
HCH	WHOLE	0.01	0.1	73	0	0
Heptachlor	WHOLE	0.01	0.02	73	0	0
Lindane (γ HCH)	WHOLE	0.02	0.5	73	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.1	1 237	0	0
Chlorpyrifos	WHOLE	0.01	0.1	1 237	4	0
Chlorpyrifos-methyl	WHOLE	0.1	10	1 237	12	0
Diazinon	WHOLE	0.01	0.1	1 237	0	0
Dichlorvos	WHOLE	0.1	5	1 237	27	0
Fenitrothion	WHOLE	0.1	10	1 237	182	0
Malathion	WHOLE	0.1	8	1 237	0	0
Pirimiphos-methyl	WHOLE	0.1	7	1 237	0	0
Profenofos	WHOLE	0.01	Not set	1 237	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	1 237	0	0
Bioresmethrin	WHOLE	0.1	Not set	1 237	0	0
Cyfluthrin	WHOLE	0.1	2	1 237	0	0
Cypermethrin	WHOLE	0.01	1	1 237	9	0
Deltamethrin	WHOLE	0.1	2	1 237	1	0
Fenvalerate	WHOLE	0.1	2	1 237	0	0
Permethrin	WHOLE	0.1	2	1 237	3	0
Phenothrin	WHOLE	0.1	Not set	1 237	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	1 237	0	0
Fipronil	WHOLE	0.005	Not set	1 237	0	0
Indoxacarb	WHOLE	0.01	Not set	1 237	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



**BARLEY (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	20	1 237	1	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	73	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	73	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	110	12	n/a
Lead	WHOLE	0.01	0.2	110	37	1
Mercury	WHOLE	0.01	No limit	110	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>CANOLA (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.01	3	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	234	0	0
Iprodione	WHOLE	0.01	0.5	234	1	0
Tebuconazole	WHOLE	0.05	Not set	234	0	0
Triadimefon	WHOLE	0.01	Not set	234	1	1
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	Not set	234	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	Not set	19	0	0
Chlordane	WHOLE	0.01	Not set	19	0	0
DDT	WHOLE	0.01	Not set	19	0	0
Endosulfan	WHOLE	0.02	1	19	0	0
Endrin	WHOLE	0.01	Not set	19	0	0
HCB	WHOLE	0.01	Not set	19	0	0
HCH	WHOLE	0.01	Not set	19	0	0
Heptachlor	WHOLE	0.01	Not set	19	0	0
Lindane [γ HCH]	WHOLE	0.02	0.05	19	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	Not set	234	0	0
Chlorpyrifos	WHOLE	0.01	0.01	234	0	0
Chlorpyrifos-methyl	WHOLE	0.1	Not set	234	0	0
Diazinon	WHOLE	0.01	Not set	234	0	0
Dichlorvos	WHOLE	0.1	0.1	234	0	0
Fenitrothion	WHOLE	0.1	Not set	234	0	0
Malathion	WHOLE	0.1	Not set	234	0	0
Pirimiphos-methyl	WHOLE	0.1	Not set	234	0	0
Profenofos	WHOLE	0.01	Not set	234	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	0.02	234	0	0
Bioresmethrin	WHOLE	0.1	Not set	234	0	0
Cyfluthrin	WHOLE	0.1	0.05	234	0	0
Cypermethrin	WHOLE	0.01	0.2	234	27	0
Deltamethrin	WHOLE	0.1	0.1	234	0	0
Fenvalerate	WHOLE	0.1	0.5	234	0	0
Permethrin	WHOLE	0.1	0.2	234	0	0
Phenothrin	WHOLE	0.1	Not set	234	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	Not set	234	0	0
Fipronil	WHOLE	0.005	0.01	234	0	0
Indoxacarb	WHOLE	0.01	Not set	234	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



<b>CANOLA (GRAIN) (continued)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	8	234	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	19	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	19	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	23	23	n/a
Lead	WHOLE	0.01	No limit	23	13	n/a
Mercury	WHOLE	0.01	No limit	23	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>CHICKPEA (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.01	1	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	Not set	11	0	0
Iprodione	WHOLE	0.01	Not set	11	0	0
Tebuconazole	WHOLE	0.05	Not set	11	0	0
Triadimefon	WHOLE	0.01	Not set	11	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	Not set	11	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	Not set	5	0	0
Chlordane	WHOLE	0.01	Not set	5	0	0
DDT	WHOLE	0.01	Not set	5	0	0
Endosulfan	WHOLE	0.02	1	5	0	0
Endrin	WHOLE	0.01	Not set	5	0	0
HCB	WHOLE	0.01	Not set	5	0	0
HCH	WHOLE	0.01	Not set	5	0	0
Heptachlor	WHOLE	0.01	Not set	5	0	0
Lindane (γ HCH)	WHOLE	0.02	Not set	5	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	Not set	11	0	0
Chlorpyrifos	WHOLE	0.01	Not set	11	0	0
Chlorpyrifos-methyl	WHOLE	0.1	Not set	11	0	0
Diazinon	WHOLE	0.01	Not set	11	0	0
Dichlorvos	WHOLE	0.1	Not set	11	0	0
Fenitrothion	WHOLE	0.1	Not set	11	0	0
Malathion	WHOLE	0.1	Not set	11	0	0
Pirimiphos-methyl	WHOLE	0.1	Not set	11	0	0
Profenofos	WHOLE	0.01	Not set	11	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	0.02	11	0	0
Bioresmethrin	WHOLE	0.1	Not set	11	0	0
Cyfluthrin	WHOLE	0.1	0.5	11	0	0
Cypermethrin	WHOLE	0.01	0.2	11	0	0
Deltamethrin	WHOLE	0.1	0.1	11	0	0
Fenvalerate	WHOLE	0.1	0.5	11	0	0
Permethrin	WHOLE	0.1	Not set	11	0	0
Phenothrin	WHOLE	0.1	Not set	11	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	Not set	11	0	0
Fipronil	WHOLE	0.005	Not set	11	0	0
Indoxacarb	WHOLE	0.01	0.2	11	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

**CHICKPEA (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	Not set	11	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	5	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	5	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	7	1	n/a
Lead	WHOLE	0.01	0.2	7	1	0
Mercury	WHOLE	0.01	No limit	7	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>FIELD PEA (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.01	3	1	1
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	Not set	52	0	0
Iprodione	WHOLE	0.01	Not set	52	0	0
Tebuconazole	WHOLE	0.05	Not set	52	0	0
Triadimefon	WHOLE	0.01	0.1	52	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	Not set	52	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	Not set	9	0	0
Chlordane	WHOLE	0.01	Not set	9	0	0
DDT	WHOLE	0.01	Not set	9	0	0
Endosulfan	WHOLE	0.02	1	9	0	0
Endrin	WHOLE	0.01	Not set	9	0	0
HCB	WHOLE	0.01	Not set	9	0	0
HCH	WHOLE	0.01	Not set	9	0	0
Heptachlor	WHOLE	0.01	Not set	9	0	0
Lindane (γ HCH)	WHOLE	0.02	Not set	9	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	Not set	52	0	0
Chlorpyrifos	WHOLE	0.01	Not set	52	0	0
Chlorpyrifos-methyl	WHOLE	0.1	Not set	52	0	0
Diazinon	WHOLE	0.01	Not set	52	0	0
Dichlorvos	WHOLE	0.1	Not set	52	0	0
Fenitrothion	WHOLE	0.1	Not set	52	0	0
Malathion	WHOLE	0.1	Not set	52	0	0
Pirimiphos-methyl	WHOLE	0.1	Not set	52	0	0
Profenofos	WHOLE	0.01	Not set	52	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	0.01	52	0	0
Bioresmethrin	WHOLE	0.1	Not set	52	0	0
Cyfluthrin	WHOLE	0.1	0.5	52	0	0
Cypermethrin	WHOLE	0.01	0.05	52	0	0
Deltamethrin	WHOLE	0.1	0.1	52	0	0
Fenvalerate	WHOLE	0.1	0.5	52	0	0
Permethrin	WHOLE	0.1	Not set	52	0	0
Phenothrin	WHOLE	0.1	Not set	52	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	Not set	52	0	0
Fipronil	WHOLE	0.005	Not set	52	0	0
Indoxacarb	WHOLE	0.01	Not set	52	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.

**FIELD PEA (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	Not set	52	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	9	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	9	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	4	4	n/a
Lead	WHOLE	0.01	0.2	4	1	0
Mercury	WHOLE	0.01	No limit	4	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>LUPIN (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.01	5	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	Not set	103	0	0
Iprodione	WHOLE	0.01	0.1	103	0	0
Tebuconazole	WHOLE	0.05	Not set	103	0	0
Triadimefon	WHOLE	0.01	Not set	103	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	Not set	103	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	Not set	21	0	0
Chlordane	WHOLE	0.01	Not set	21	0	0
DDT	WHOLE	0.01	Not set	21	0	0
Endosulfan	WHOLE	0.02	1	21	0	0
Endrin	WHOLE	0.01	Not set	21	0	0
HCB	WHOLE	0.01	Not set	21	0	0
HCH	WHOLE	0.01	Not set	21	0	0
Heptachlor	WHOLE	0.01	Not set	21	0	0
Lindane [γHCH]	WHOLE	0.02	Not set	21	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	Not set	103	0	0
Chlorpyrifos	WHOLE	0.01	Not set	103	0	0
Chlorpyrifos-methyl	WHOLE	0.1	10	103	1	0
Diazinon	WHOLE	0.01	Not set	103	0	0
Dichlorvos	WHOLE	0.1	Not set	103	0	0
Fenitrothion	WHOLE	0.1	Not set	103	0	0
Malathion	WHOLE	0.1	Not set	103	0	0
Pirimiphos-methyl	WHOLE	0.1	Not set	103	0	0
Profenofos	WHOLE	0.01	Not set	103	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	0.02	103	0	0
Bioresmethrin	WHOLE	0.1	Not set	103	0	0
Cyfluthrin	WHOLE	0.1	0.5	103	0	0
Cypermethrin	WHOLE	0.01	0.01	103	0	0
Deltamethrin	WHOLE	0.1	0.1	103	0	0
Fenvalerate	WHOLE	0.1	0.5	103	0	0
Permethrin	WHOLE	0.1	0.1	103	0	0
Phenothrin	WHOLE	0.1	Not set	103	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	Not set	103	0	0
Fipronil	WHOLE	0.005	Not set	103	0	0
Indoxacarb	WHOLE	0.01	Not set	103	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



**LUPIN (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	Not set	103	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	21	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	21	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	6	6	n/a
Lead	WHOLE	0.01	0.2	6	0	0
Mercury	WHOLE	0.01	No limit	6	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



OAT

<b>OAT (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.1	5	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	73	0	0
Iprodione	WHOLE	0.01	Not set	73	0	0
Tebuconazole	WHOLE	0.05	0.2	73	0	0
Triadimefon	WHOLE	0.01	0.5	73	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	2	73	14	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	17	0	0
Chlordane	WHOLE	0.01	0.02	17	0	0
DDT	WHOLE	0.01	0.1	17	0	0
Endosulfan	WHOLE	0.02	0.2	17	0	0
Endrin	WHOLE	0.01	Not set	17	0	0
HCB	WHOLE	0.01	0.05	17	0	0
HCH	WHOLE	0.01	0.1	17	0	0
Heptachlor	WHOLE	0.01	0.02	17	0	0
Lindane [ $\gamma$ HCH]	WHOLE	0.02	0.5	17	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.1	73	0	0
Chlorpyrifos	WHOLE	0.01	0.1	73	0	0
Chlorpyrifos-methyl	WHOLE	0.1	10	73	0	0
Diazinon	WHOLE	0.01	0.1	73	0	0
Dichlorvos	WHOLE	0.1	5	73	10	0
Fenitrothion	WHOLE	0.1	10	73	18	6
Malathion	WHOLE	0.1	8	73	0	0
Pirimiphos-methyl	WHOLE	0.1	7	73	1	0
Profenofos	WHOLE	0.01	Not set	73	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	73	0	0
Bioresmethrin	WHOLE	0.1	Not set	73	0	0
Cyfluthrin	WHOLE	0.1	2	73	0	0
Cypermethrin	WHOLE	0.01	1	73	2	0
Deltamethrin	WHOLE	0.1	2	73	0	0
Fenvalerate	WHOLE	0.1	2	73	0	0
Permethrin	WHOLE	0.1	2	73	0	0
Phenothrin	WHOLE	0.1	Not set	73	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	73	0	0
Fipronil	WHOLE	0.005	Not set	73	0	0
Indoxacarb	WHOLE	0.01	Not set	73	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



OAT

**OAT (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	20	73	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	17	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	17	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	6	6	n/a
Lead	WHOLE	0.01	0.2	6	5	0
Mercury	WHOLE	0.01	No limit	6	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>SORGHUM (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.1	7	0	0
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	253	0	0
Iprodione	WHOLE	0.01	Not set	253	0	0
Tebuconazole	WHOLE	0.05	0.2	253	0	0
Triadimefon	WHOLE	0.01	0.5	253	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	2	253	28	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	31	0	0
Chlordane	WHOLE	0.01	0.02	31	0	0
DDT	WHOLE	0.01	0.1	31	0	0
Endosulfan	WHOLE	0.02	0.2	31	0	0
Endrin	WHOLE	0.01	Not set	31	0	0
HCB	WHOLE	0.01	0.05	31	0	0
HCH	WHOLE	0.01	0.1	31	0	0
Heptachlor	WHOLE	0.01	0.02	31	0	0
Lindane (γ HCH)	WHOLE	0.02	0.5	31	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.1	253	0	0
Chlorpyrifos	WHOLE	0.01	3	253	3	0
Chlorpyrifos-methyl	WHOLE	0.1	10	253	14	0
Diazinon	WHOLE	0.01	0.1	253	0	0
Dichlorvos	WHOLE	0.1	5	253	13	0
Fenitrothion	WHOLE	0.1	10	253	16	0
Malathion	WHOLE	0.1	8	253	0	0
Pirimiphos-methyl	WHOLE	0.1	10	253	16	0
Profenofos	WHOLE	0.01	Not set	253	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	253	1	0
Bioresmethrin	WHOLE	0.1	Not set	253	0	0
Cyfluthrin	WHOLE	0.1	5	253	0	0
Cypermethrin	WHOLE	0.01	1	253	6	0
Deltamethrin	WHOLE	0.1	2	253	3	0
Fenvalerate	WHOLE	0.1	2	253	0	0
Permethrin	WHOLE	0.1	2	253	0	0
Phenothrin	WHOLE	0.1	Not set	253	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	253	0	0
Fipronil	WHOLE	0.005	0.01	253	0	0
Indoxacarb	WHOLE	0.01	Not set	253	3	3

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.

**SORGHUM (GRAIN)** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	20	253	3	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	31	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	31	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	11	2	n/a
Lead	WHOLE	0.01	0.2	11	4	0
Mercury	WHOLE	0.01	No limit	11	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>WHEAT (GRAIN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fumigants</i>						
Phosphine	WHOLE	0.005	0.1	45	4	1
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	2 823	1	1
Iprodione	WHOLE	0.01	Not set	2 823	1	1
Tebuconazole	WHOLE	0.05	0.2	2 823	0	0
Triadimefon	WHOLE	0.01	0.5	2 823	1	1
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	2	2 823	225	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	181	0	0
Chlordane	WHOLE	0.01	0.02	181	0	0
DDT	WHOLE	0.01	0.1	181	0	0
Endosulfan	WHOLE	0.02	0.2	181	0	0
Endrin	WHOLE	0.01	Not set	181	0	0
HCB	WHOLE	0.01	0.05	181	0	0
HCH	WHOLE	0.01	0.1	181	0	0
Heptachlor	WHOLE	0.01	0.02	181	0	0
Lindane [γ HCH]	WHOLE	0.02	0.5	181	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.1	2 823	0	0
Chlorpyrifos	WHOLE	0.01	0.1	2 823	39	2
Chlorpyrifos-methyl	WHOLE	0.1	10	2 823	430	1
Diazinon	WHOLE	0.01	0.1	2 823	0	0
Dichlorvos	WHOLE	0.1	5	2 823	88	0
Fenitrothion	WHOLE	0.1	10	2 823	157	1
Malathion	WHOLE	0.1	8	2 823	1	0
Pirimiphos-methyl	WHOLE	0.1	10	2 823	11	0
Profenofos	WHOLE	0.01	Not set	2 823	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	2 823	0	0
Bioresmethrin	WHOLE	0.1	Not set	2 823	0	0
Cyfluthrin	WHOLE	0.1	2	2 823	0	0
Cypermethrin	WHOLE	0.01	0.2	2 823	0	0
Deltamethrin	WHOLE	0.1	2	2 823	18	0
Fenvalerate	WHOLE	0.1	2	2 823	0	0
Permethrin	WHOLE	0.1	2	2 823	2	0
Phenothrin	WHOLE	0.1	2	2 823	2	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	2,823	3	0
Fipronil	WHOLE	0.005	Not set	2,823	0	0
Indoxacarb	WHOLE	0.01	Not set	2,823	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>WHEAT (GRAIN) (continued)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	20	2,823	23	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	181	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	181	0	n/a
<i>Metals</i>						
Cadmium	WHOLE	0.01	0.1	202	155	0
Lead	WHOLE	0.01	0.2	202	34	0
Mercury	WHOLE	0.01	No limit	202	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>WHEAT (BRAN)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	94	1	0
Iprodione	WHOLE	0.01	Not set	94	0	0
Tebuconazole	WHOLE	0.05	0.2	94	0	0
Triadimefon	WHOLE	0.01	0.5	94	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	5	94	45	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	10	0	0
Chlordane	WHOLE	0.01	0.02	10	0	0
DDT	WHOLE	0.01	0.1	10	0	0
Endosulfan	WHOLE	0.02	0.2	10	0	0
Endrin	WHOLE	0.01	Not set	10	0	0
HCB	WHOLE	0.01	0.05	10	0	0
HCH	WHOLE	0.01	0.1	10	0	0
Heptachlor	WHOLE	0.01	0.02	10	0	0
Lindane ( $\gamma$ HCH)	WHOLE	0.02	0.5	10	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.5	94	0	0
Chlorpyrifos	WHOLE	0.01	0.1	94	19	0
Chlorpyrifos-methyl	WHOLE	0.1	20	94	37	0
Diazinon	WHOLE	0.01	0.1	94	0	0
Dichlorvos	WHOLE	0.1	10	94	2	0
Fenitrothion	WHOLE	0.1	20	94	31	0
Malathion	WHOLE	0.1	20	94	0	0
Pirimiphos-methyl	WHOLE	0.1	20	94	5	0
Profenofos	WHOLE	0.01	Not set	94	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	94	0	0
Bioresmethrin	WHOLE	0.1	Not set	94	0	0
Cyfluthrin	WHOLE	0.1	5	94	0	0
Cypermethrin	WHOLE	0.01	0.2	94	0	0
Deltamethrin	WHOLE	0.1	5	94	0	0
Fenvalerate	WHOLE	0.1	5	94	0	0
Permethrin	WHOLE	0.1	5	94	0	0
Phenothrin	WHOLE	0.1	5	94	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	20	94	1	0
Fipronil	WHOLE	0.005	Not set	94	0	0
Indoxacarb	WHOLE	0.01	Not set	94	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



WHEAT (BRAN)

<b>WHEAT (BRAN) <i>(continued)</i></b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	40	94	1	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	10	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	10	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



<b>WHEAT (FLOUR)</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Flutriafol	WHOLE	0.01	0.02	94	1	1
Iprodione	WHOLE	0.01	Not set	94	0	0
Tebuconazole	WHOLE	0.05	0.2	94	0	0
Triadimefon	WHOLE	0.01	0.5	94	0	0
<i>Insect growth regulators</i>						
Methoprene	WHOLE	0.1	2	94	10	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.01	0.02	10	0	0
Chlordane	WHOLE	0.01	0.02	10	0	0
DDT	WHOLE	0.01	0.1	10	0	0
Endosulfan	WHOLE	0.02	0.2	10	0	0
Endrin	WHOLE	0.01	Not set	10	0	0
HCB	WHOLE	0.01	0.05	10	0	0
HCH	WHOLE	0.01	0.1	10	0	0
Heptachlor	WHOLE	0.01	0.02	10	0	0
Lindane ( $\gamma$ HCH)	WHOLE	0.02	0.5	10	0	0
<i>Organophosphates</i>						
Azamethiphos	WHOLE	0.1	0.1	94	0	0
Chlorpyrifos	WHOLE	0.01	0.1	94	0	0
Chlorpyrifos-methyl	WHOLE	0.1	10	94	26	0
Diazinon	WHOLE	0.01	0.1	94	0	0
Dichlorvos	WHOLE	0.1	5	94	0	0
Fenitrothion	WHOLE	0.1	10	94	12	0
Malathion	WHOLE	0.1	8	94	0	0
Pirimiphos-methyl	WHOLE	0.1	10	94	1	0
Profenofos	WHOLE	0.01	Not set	94	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.01	2	94	0	0
Bioresmethrin	WHOLE	0.1	Not set	94	0	0
Cyfluthrin	WHOLE	0.1	2	94	0	0
Cypermethrin	WHOLE	0.01	0.2	94	0	0
Deltamethrin	WHOLE	0.1	2	94	0	0
Fenvalerate	WHOLE	0.1	2	94	0	0
Permethrin	WHOLE	0.1	2	94	0	0
Phenothrin	WHOLE	0.1	2	94	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	94	0	0
Fipronil	WHOLE	0.005	Not set	94	0	0
Indoxacarb	WHOLE	0.01	Not set	94	0	0

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



WHEAT (FLOUR)

**WHEAT (FLOUR) *(continued)***

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Synergists</i>						
Piperonyl butoxide	WHOLE	1	20	94	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Chlorinated biphenyls</i>						
PCBs (Aroclor 1254)	WHOLE	0.05	No limit	10	0	n/a
PCBs (Aroclor 1260)	WHOLE	0.05	No limit	10	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



## ***Horticulture***

The numbers of horticulture samples collected during 2004–2005 are shown in the following table.

<b>Commodity</b>	<b>Number of samples</b>
Apple and pear	292
Macadamia nut	120
Onion	101
Blueberry	60
<b>Total</b>	<b>573</b>

Results tables for horticultural products (in alphabetical order by commodity name) are shown on the tables that begin on page 131.

Residues of a number of crop protection chemicals were detected in apples, blueberries and pears. All but one were within Australian Standards. A traceback investigation into a violative residue of chlorpyrifos (0.87 mg/kg) in an apple sample (MRL 0.5 mg/kg) commenced in July 2005 and is ongoing.



APPLE						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Captan	WHOLE	0.05	10	221	3	0
Carbendazim	WHOLE	0.2	5	221	89	0
Difenoconazole	WHOLE	0.05	0.3	221	0	0
Dithiocarbamates	WHOLE	0.2	3	221	41	0
Fenarimol	WHOLE	0.05	0.2	221	0	0
Hexaconazole	WHOLE	0.02	0.1	221	0	0
Imazalil	WHOLE	0.1	5	221	8	0
Iprodione	WHOLE	0.1	3	221	117	0
Procymidone	WHOLE	0.1	1	221	0	0
Thiabendazole	WHOLE	0.2	10	221	0	0
<i>Insect growth regulators</i>						
Tebufenozide	WHOLE	0.1	1	221	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.05	0.05	221	0	0
DDT	WHOLE	0.05	1	221	0	0
Dicofol	WHOLE	0.05	5	221	1	0
Endosulfan	WHOLE	0.05	2	221	0	0
Heptachlor	WHOLE	0.05	Not set	221	0	0
Lindane ( $\gamma$ HCH)	WHOLE	0.05	2	221	0	0
<i>Organophosphates</i>						
Azinphos-methyl	WHOLE	0.05	2	221	22	0
Chlorpyrifos	WHOLE	0.05	0.5	221	33	1
Diazinon	WHOLE	0.05	0.5	221	0	0
Dimethoate (RD)	WHOLE	0.05	5	221	0	0
Fenitrothion	WHOLE	0.05	0.5	221	0	0
Fenthion	WHOLE	0.05	2	221	1	0
Malathion	WHOLE	0.05	2	221	0	0
Methidathion	WHOLE	0.05	0.2	221	0	0
Parathion	WHOLE	0.05	Not set	221	0	0
Parathion-methyl	WHOLE	0.05	0.5	221	7	0
Prothiofos	WHOLE	0.02	0.05	221	0	0
Trichlorfon	WHOLE	0.05	0.1	221	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.02	0.05	221	0	0
Cypermethrin	WHOLE	0.1	1	221	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



## APPLE

<b>APPLE</b> <i>(continued)</i>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>Other</b>						
Carbaryl	WHOLE	0.1	5	221	6	0
Chlorfenapyr	WHOLE	0.1	0.5	221	0	0
Demethyl-pirimicarb	WHOLE	0.1	0.5	221	0	0
Dimethylformamido-pirimicarb	WHOLE	0.1	0.5	221	0	0
Fenoxycarb	WHOLE	0.1	2	221	3	0
Fenpyroximate	WHOLE	0.05	0.3	221	0	0
Indoxacarb	WHOLE	0.1	2	221	0	0
Pirimicarb	WHOLE	0.1	0.5	221	0	0
Pirimicarb (Parent)	WHOLE	0.1	0.5	221	4	0
Propargite	WHOLE	0.1	3	221	38	0
Spinosad	WHOLE	0.05	0.2	221	0	0
Tebufenpyrad	WHOLE	0.05	1	221	3	0
<b>PHYSIOLOGICAL MODIFIERS</b>						
<b>Scald Inhibitors</b>						
Diphenylamine	WHOLE	0.05	10	221	143	0



BLUEBERRY						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Captan	WHOLE	0.3	20	60	2	0
Dithiocarbamates	WHOLE	0.02	10	6	4	0
Propiconazole	WHOLE	0.05	2	60	6	0
<i>Insect growth regulators</i>						
Tebufenozide	WHOLE	0.05	2	60	0	0
<i>Organophosphates</i>						
Dimethoate (RD)	WHOLE	0.02	5	60	38	0
Malathion	WHOLE	0.1	0.5	60	0	0
Oxime Carbamates						
Methomyl	WHOLE	0.05	2	60	0	0



<b>MACADAMIA NUT</b>						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Carbendazim	WHOLE	0.1	0.1	120	0	0
Iprodione	WHOLE	0.01	0.01	120	0	0
Metalaxyl	WHOLE	0.2	1	120	0	0
<i>Herbicides</i>						
Oxyfluorfen	WHOLE	0.05	0.05	120	0	0
<i>Insect growth regulators</i>						
Tebufenozide	WHOLE	0.02	0.05	120	0	0
<i>Organochlorines</i>						
Endosulfan	WHOLE	0.05	2	120	0	0
<i>Organophosphates</i>						
Acephate	WHOLE	0.05	0.1	120	0	0
Azinphos-methyl	WHOLE	0.01	0.01	120	0	0
Chlorpyrifos	WHOLE	0.02	Not set	120	0	0
Diazinon	WHOLE	0.05	0.1	120	0	0
Methidathion	WHOLE	0.01	0.01	120	0	0
Trichlorfon	WHOLE	0.05	0.1	120	0	0
<i>Synthetic pyrethroids</i>						
Cyfluthrin	WHOLE	0.05	0.05	120	0	0
Deltamethrin	WHOLE	0.05	Not set	120	0	0
Permethrin	WHOLE	0.05	Not set	120	0	0
<i>Other</i>						
Carbaryl	WHOLE	0.2	1	120	0	0

Not set      No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.



## ONION

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Benalaxyl	WHOLE	0.05	0.1	101	0	0
Carbendazim	WHOLE	0.1	3	101	0	0
Dimethomorph	WHOLE	0.05	0.05	101	0	0
Dithiocarbamates	WHOLE	0.2	4	101	0	0
Metalaxyl	WHOLE	0.05	0.1	101	0	0
Procymidone	WHOLE	0.1	0.2	101	0	0
Tebuconazole	WHOLE	0.01	0.01	101	0	0
<i>Herbicides</i>						
Ioxynil	WHOLE	0.02	0.02	101	0	0
Methabenzthiazuron	WHOLE	0.02	0.05	101	0	0
Oxyfluorfen	WHOLE	0.05	0.05	101	0	0
Pendimethalin	WHOLE	0.05	0.05	101	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.05	0.1	101	0	0
DDT	WHOLE	0.05	1	101	0	0
Dicofol	WHOLE	0.3	5	101	0	0
Endosulfan	WHOLE	0.05	0.2	101	0	0
Endrin	WHOLE	0.05	Not set	101	0	0
HCH	WHOLE	0.05	Not set	101	0	0
Heptachlor	WHOLE	0.05	0.05	101	0	0
Lindane ( $\gamma$ HCH)	WHOLE	0.1	2	101	0	0
<i>Organophosphates</i>						
Chlorpyrifos	WHOLE	0.01	0.01	101	0	0
Diazinon	WHOLE	0.1	0.7	101	0	0
Dimethoate (RD)	WHOLE	0.1	2	101	0	0
Fenamiphos	WHOLE	0.02	0.05	101	0	0
Malathion	WHOLE	0.1	2	101	0	0
Methidathion	WHOLE	0.01	0.01	101	0	0
Parathion-methyl	WHOLE	0.1	Not set	101	0	0
Phorate	WHOLE	0.1	0.5	101	0	0
<i>Synthetic pyrethroids</i>						
Cypermethrin	WHOLE	0.01	0.01	101	0	0
<b>ENVIRONMENTAL CONTAMINANTS</b>						
<i>Metals</i>						
Cadmium	WHOLE	0.01	No limit	51	17	n/a
Lead	WHOLE	0.01	0.1	51	0	0
Mercury	WHOLE	0.01	No limit	51	0	n/a

*n/a* Australian Standard does not apply. No limit set or defined.

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

*No limit* No standard applicable for the contaminant. Detections of the contaminant at low levels are allowable.



PEAR

PEAR						
	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<b>PESTICIDES</b>						
<i>Fungicides</i>						
Captan	WHOLE	0.05	10	71	1	0
Carbendazim	WHOLE	0.2	5	71	18	0
Difenoconazole	WHOLE	0.05	0.3	71	0	0
Dithiocarbamates	WHOLE	0.2	3	71	24	0
Fenarimol	WHOLE	0.05	0.2	71	0	0
Hexaconazole	WHOLE	0.02	0.1	71	0	0
Imazalil	WHOLE	0.1	5	71	34	0
Iprodione	WHOLE	0.1	3	71	47	0
Procymidone	WHOLE	0.1	1	71	0	0
Thiabendazole	WHOLE	0.2	10	71	0	0
<i>Insect growth regulators</i>						
Tebufenozide	WHOLE	0.1	1	71	0	0
<i>Organochlorines</i>						
Aldrin and dieldrin	WHOLE	0.05	0.05	71	0	0
DDT	WHOLE	0.05	1	71	0	0
Dicofol	WHOLE	0.05	5	71	0	0
Endosulfan	WHOLE	0.05	2	71	0	0
Heptachlor	WHOLE	0.05	Not set	71	0	0
Lindane ( $\gamma$ HCH)	WHOLE	0.05	0.5	71	0	0
<i>Organophosphates</i>						
Azinphos-methyl	WHOLE	0.05	2	71	10	0
Chlorpyrifos	WHOLE	0.05	0.5	71	0	0
Diazinon	WHOLE	0.05	0.5	71	0	0
Dimethoate (RD)	WHOLE	0.05	5	71	0	0
Fenitrothion	WHOLE	0.05	0.1	71	0	0
Fenthion	WHOLE	0.05	2	71	0	0
Malathion	WHOLE	0.05	0.5	71	0	0
Methidathion	WHOLE	0.05	0.2	71	0	0
Parathion	WHOLE	0.05	Not set	71	0	0
Parathion-methyl	WHOLE	0.05	0.5	71	10	0
Prothiofos	WHOLE	0.02	0.05	71	0	0
Trichlorfon	WHOLE	0.05	0.1	71	0	0
<i>Synthetic pyrethroids</i>						
Bifenthrin	WHOLE	0.02	0.5	71	0	0
Cypermethrin	WHOLE	0.1	1	71	0	0

*Not set* No standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australian New Zealand Food Standards Code.

**PEAR** *(continued)*

	Matrix	LOR mg/kg	Aust Std mg/kg	Number of analyses	Number of residues	Number > Aust Std
<i>Other</i>						
Carbaryl	WHOLE	0.1	5	71	6	0
Chlorfenapyr	WHOLE	0.1	0.5	71	1	0
Demethyl-pirimicarb	WHOLE	0.1	0.5	71	0	0
Dimethylformamido- pirimicarb	WHOLE	0.1	0.5	71	0	0
Fenoxycarb	WHOLE	0.1	2	71	2	0
Fenpyroximate	WHOLE	0.05	0.3	71	0	0
Indoxacarb	WHOLE	0.1	2	71	0	0
Pirimicarb	WHOLE	0.1	0.5	71	0	0
Pirimicarb (Parent)	WHOLE	0.1	0.5	71	0	0
Propargite	WHOLE	0.1	3	71	3	0
Spinosad	WHOLE	0.05	0.2	71	0	0
Tebufenpyrad	WHOLE	0.05	1	71	0	0
<b>PHYSIOLOGICAL MODIFIERS</b>						
<i>Scald Inhibitors</i>						
Diphenylamine	WHOLE	0.05	7	71	64	0