



**2003/04 NEW ZEALAND TOTAL DIET SURVEY**

**ANALYTICAL RESULTS – Q2**

**20 April 2004**

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by

Dr R W Vannoort

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ANALYTICAL RESULTS – Q2**

**20 April 2004**

Dr W. H Swallow  
Acting Food Safety Programme Manager

Dr R W Vannoort  
Project Leader

B M Thomson  
Peer Reviewer

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## GLOSSARY OF TERMS AND ABBREVIATIONS

### *Agricultural Compound*

is a generic term for any substance or mixture of substances, or biological compounds, used or intended for use in the direct management of plants or animals or to be applied to the land or water on or in which the plants or animals are managed, for the purposes of:-

- managing pests, including vertebrate pests; or
- managing, promoting or regulating plant or animal productivity and performance or reproduction; or
- fulfilling special nutritional requirements; or
- the manipulation, capture or immobilisation of animals; or
- diagnosing the condition of animals; or
- preventing or treating the condition of animals; or
- enhancing the effectiveness of an agricultural compound used for the treatment of plants and animals; or
- marking animals

and includes any pesticide, veterinary medicine, any substance, mixture of substances, or biological compound used for post-harvest pest control or disinfestation of raw primary produce.

### *FSANZ*

Food Standards Australia New Zealand

### *FSC*

The Food Standards Code.

### *Codex*

Codex Alimentarius Commission. Publication of the joint FAO/WHO Codex Alimentarius Commission which sets standards on acceptable levels of chemical components in foods.

### *CRM*

Certified Reference Material or Standard Reference Material. A material tested by a wide range of international laboratories, to reach consensus on the levels of analytical components which it contains.

### *LOD*

Limit of Detection. This may be defined as the minimum concentration of the component in a dietary sample that can just be qualitatively detected, but not quantitatively determined, under a pre-established set of analytical conditions.

### *LOQ*

Limit of Quantitation. This is the minimum concentration of a component that can be determined quantitatively with acceptable accuracy and consistency. It often approximates to a value of approximately three times the limit of detection.

### *LOR*

Limit of Reporting. This is the minimum concentration of a component that can be reported with confidence. The limit of reporting is also referred to as the 'limit of determination' or 'limit of quantitation'.

<i>ML</i>	Maximum Level. This means the maximum level of a specified contaminant which is permitted to be present in a nominated food, unless otherwise specified, in milligrams of the contaminant per kilogram of the food (mg/kg). MLs relevant to food consumed in NZ are set by FSANZ or Codex. For more details see section 4.2.
<i>MR</i>	Multi-residue. A pesticide residue analytical technique developed to detect and quantify the widest achievable range of pesticide types.
<i>MRL</i>	Maximum Residue Limit. This is the maximum concentration of a agricultural compound residue legally permitted (or recognised as acceptable) in or on a food (agricultural commodity or animal feed). MRLs for foodstuffs in New Zealand are set out in the New Zealand Food Standards 2002 and associated amendments, FSANZ standard 1.4.2 or Codex. MRLs are the maximum considered to result from the use of the agricultural compound according to Good Agricultural Practice (GAP) and which is toxicologically acceptable.
<i>NZFSA</i>	New Zealand Food Safety Authority
<i>NZTDS</i>	New Zealand Total Diet Survey.
<i>Pesticides</i>	is a generic term for any substance intended for preventing, destroying, attracting, repelling, or controlling any pest including unwanted species of plants or animals, during the production, storage, transportation, distribution, and processing of food, agricultural commodity, or animal feed. The term includes fungicides, herbicides, insecticide, and chemicals which may be administered to animals for the control of ectoparasites. It includes substances applied to crops either before or after harvest to protect the commodity from deterioration during storage and transport.
<i>Pesticide residue</i>	is any specified substance in food, agricultural commodity, or animal feed resulting from the use of a pesticide (from known, unknown or unavoidable sources). Includes any derivatives of a pesticide, such as conversion products, metabolites, reaction products, and impurities considered to be of toxicological significance.
<i>Q1, Q2, etc.</i>	Quarter 1, quarter 2, etc. of the New Zealand Total Diet Survey sampling programme.

## **1 INTRODUCTION**

This report presents the analytical results from the second of four quarterly sampling periods to be carried out during the 2003/04 New Zealand Total Diet Survey (NZTDS). The purpose of producing this report at this stage is to make the data on the concentrations of agricultural compound residues, contaminant elements and nutrient elements, in the NZTDS foods analyzed, available to interested parties in a timely manner.

Background to the current survey is provided in Appendix 1. The Food List is detailed in Appendix 2.

## **2 SAMPLING METHODS**

### **2.1 Quarter 2 (Q2) sampling**

The sampling carried out in Q2 was for national foods (term defined in Appendix 1). Q2 sampling was carried out on six successive Mondays, with different foods being sampled each week.

**Locations for national food sampling:** Christchurch

**Dates for Q2 sampling:** Mondays 27 October, 3, 10, 17, 24 November, and 1 December 2003

### **2.2 Retail Outlets**

Wherever possible, the purchasing of any particular food has been carried out over a range of retail outlets representing the buying habits of the majority of the community. This inevitably meant that the bulk of purchases are made at supermarkets, however, corner stores, delicatessens, butchers and green grocers have been included where appropriate.

### **2.3 Range of brands/Use by dates/Batch numbers**

Where applicable, the brands to be purchased were specified. These were based on data for the most commonly purchased brands. Where the brands were not specified to the same degree, then a range of available brands, including generic, were purchased. A range of use by dates or batch numbers within each brand were included to increase the range of products being sampled.

Where imported and domestic lines were available for a particular food, the purchasing officer selected a mixture. Imports which are boutique or specialised lines were avoided.

### **2.4 Sampling - National Foods**

These instructions apply to the sampling of National (N) foods for any one (seasonal) sampling. Each food will be sampled at two different times of year (seasons).

All national foods involved purchase of an average of four units of each of up to four different brands of each food. The four brands allowed a greater range of each product to be

represented in the sampling. Within each brand, sampling officers were encouraged to purchase different batches/use by dates. On average, 16 samples of each food arrived at the food preparation laboratory. Samples within each of the four different brands were composited in all cases by the food preparation laboratory. For almost all national foods, the different brands were analysed individually for all analytes; but for a few food/analyte combinations, the four different brands were composited to form a single seasonal composite.

### 3 ANALYTE LIST

#### 3.1 Agricultural Compounds

Testing of foods in the 2003/04 NZTDS will be undertaken for pesticides, dithiocarbamate and acid herbicide compounds by way of three separate screens. The multi-residue (MR) pesticide screen includes organochlorine pesticides, organophosphorus pesticides, pyrethroids, fungicides, and a number of other pesticides not included in these groups.

**Table 1 Multi-residue pesticide screen in the 2003/04 New Zealand Total Diet Survey**

Acephate	Chlorpyrifos-methyl	Diphenylamine	Furalaxyl
Acetochlor	Chlorthal-dimethyl	Disulfoton	Furathiocarb
Alachlor	Chlzolinate	Endosulfan, a-	Halxyfop-methyl
Aldrin	Clomazone	Endosulfan, b-	HCB
Atrazine	Coumaphos	Endosulfan-sulphate	Heptachlor
Azaconazole	Cyanazine	Endrin	Heptachlor endo epoxide
Azinphos-methyl	Cyfluthrin	EPN	Heptachlor exo epoxide
Azoxystrobin	Cyhalothrin-g	Epoxiconazole	Heptenophos
Benalaxyl	Cyhalothrin-l	EPTC	Hexaconazole
Bendiocarb	Cypermethrin	Esfenvalerate	Hexazinone
Benodanil	Cyproconazole	Ethion	Indoxacarb
BHC - a	Cyprodinil	Ethoxyquin	Iodophenphos
BHC - b	DDD, 4,4'	Etridiazole	Iprodione
Bifenthrin	DDD, 2,4'	Etrimphos	Isazophos
Binapacryl	DDE, 4,4'	Famphur	Isofenphos
Bitertanol	DDE, 2,4'	Fenarimol	Isoproturon
Bromacil	DDT, 2,4'	Fenclorphos	Kresoxim-methyl
Bromophos-ethyl	DDT, 4,4'	Fenitrothion	Lindane
Bromophos-methyl	Deltamethrin	Fenoxycarb	Linuron
Bromopropylate	Demeton-s-methyl	Fenpiclonil	Malathion
Bupirimate	Diazinon	Fenpropathrin	Metalaxyl
Buprofezin	Dichlobenil	Fenpropimorph	Methacrifos
Captan	Dichlofenthion	Fensulfothion	Methidathion
Carbaryl	Dichlofluanid	Fenthion	Methiocarb
Carbofuran	Dichlorvos	Fenvalerate	Metolachlor
Chlordane-cis	Dicloran	Fipronil	Metribuzin
Chlordane-trans	Dicrotophos	Flamprop-methyl	Mevinphos
Chlorfenvinphos	Dieldrin	Fluazifop-butyl	Monocrotophos
Chlorfluazuron	Difenoconazole-cis	Fluazinam	Napropamide
Chloridazon	Difenoconazole-trans	Fluometuron	Nitrofen
Chlornitrofen	Diiflufenican	Flusilasole	Nitrothal-isopropyl
Chlorobenzilate	Dimethenamid	Flutriafol	Norflurazon
Chlorothalonil	Dimethoate	Fluvalinate-DL	Omethoate
Chlorpropham	Dimethomorph	Fluvalinate-D	Oxadiazon
Chlorpyrifos	Diphenamid	Folpet	Oxadixyl

Oxyfluorfen	Phosphamidon-b	Propoxur	Terbutryn
Paclobutrazol	Piperonyl butoxide	Propyzamide	Tetrachlorvinphos
Parathion(-ethyl)	Pirimicarb	Prothiophos	Tetradifon
Parathion-methyl	Pirimiphos-methyl	Pyrazophos	Thiometon
Penconazole	Prochloraz	Pyrimethanil	Tolclofos-methyl
Pendimethalin	Procymidone	Pyriproxyfen	Tolyfluanid
Permethrin-cis	Prometryn	Quintozene	Tralkoxydim
Permethrin-trans	Propachlor	Quizalofop-ethyl	Triademefon
Phorate	Propargite 1+2	Simazine	Triademenol
Phorate sulphoxide	Propazine	Tebuconazole	Triallate
Phorate sulphone	Propetamphos	Tebufenpyrad	Triazophos
Phosalone	Propham	Terbacil	Trifloxystrobin
Phosmet	Propiconazole-cis	Terbufos	Trifluralin
Phosphamidon-a	Propiconazole-trans	Terbutylazine	Vinclozolin

All foods included in the survey are analysed by the multi-residue pesticide method.

The dithiocarbamate (DTC) pesticides require a separate screen and this analysis covers, but does not distinguish between:

Dithane	Mancozeb	Nabam	Zinab
Ferbam	Maneb	Thiram	Ziram

Analysis for dithiocarbamate fungicides is carried out on fruit and vegetable products only.

The acid herbicides (AH) screen also requires a separate screen and this analysis covers : -

2,4 -D	Chlorsulphuron	MCPA	Picloram
2,4-DB	Clopyralid	MCPB	Trialfuron
2,4,5 -T	Cymoxanil	Mecoprop -P	Triclopyr
Bentazone	Dicamba	Metamitron	
Bromoxynil	Dichlorprop	Metsulfuron	

Only selected foods are analysed for acid herbicides.

### 3.2 Elements

Eight elements are included for analysis in the 2003/04 NZTDS. The table below lists the elements, the analytical methodologies used and the foods which were analysed. It should be noted that Q2 involved analysis of national foods.

**Table 2 Elements analysed for in the 2003/04 New Zealand Total Diet Survey**

<b>Element</b>	<b>Method of Analysis</b>	<b>Foods to be analysed</b>
Arsenic (As)	ICP-MS	All, except fats & oils
Cadmium (Cd)	ICP-MS	All
Iodine (I)	ICP-MS	All
Iron (Fe)	ICP-OES	All
Lead (Pb)	ICP-MS	All
Mercury(Hg)	ICP-MS	All, except grains and high fat foods
Selenium (Se)	ICP-MS	All, except fats & oils
Sodium	ICP-OES	All

ICP-MS = inductively-coupled plasma mass spectrometry

ICP-OES = inductively-coupled plasma optical emission spectrometry



## **4 ANALYTICAL RESULTS**

### **4.1 Analytical Quality Control**

Trace analyses of a wide range of complex analytes in a variety of complex matrices is an exacting science. A summary of the quality control procedures employed to provide confidence in the methodology and robustness of results is given in Appendix 3.

### **4.2 Elements**

For the elements analysed, results are reported per analyte for all foods analysed in this quarter. For some elements, not all foods sampled in Q2 have been analysed. These cases are those in which existing information suggests there is little likelihood of the element being detected using the current analytical methodologies eg mercury in chocolate biscuits.

All elemental results reported are on a 'foods as consumed' basis. Moisture contents of the foods have also been separately determined, but are not detailed in this report.

Where no results are reported/recorded in the results tables, this is because either;

- samples were not analysed for that food/analyte combination,
- results are not available at time of reporting, but will be included in a subsequent NZTDS analytical results report.

Elements are naturally occurring and ubiquitous in our environment. As such, if the concentration of a certain element in a food is 'not detected', it is highly likely that it is present, but at levels less than the limit of detection. For this reason, international convention for 'not detected' results for elements is to report them as 'less than the limit of detection'. For example, arsenic in wheatbix is not detected, with a limit of detection of 0.010 mg/kg. This is reported as <0.010 mg/kg.

#### 4.2.1 Arsenic (total)

**Table 3 Total arsenic content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	0.001	< 0.001	0.002	0.003
Apricot, canned	< 0.002	< 0.002	< 0.002	< 0.002
Banana	< 0.002	< 0.002	< 0.002	< 0.002
Beans	< 0.002	< 0.002	< 0.002	< 0.002
Beans, baked, canned	< 0.002	< 0.002	< 0.002	< 0.002
Beer	0.003	< 0.001	0.001	0.001
Beetroot, canned	< 0.002	< 0.002	< 0.002	< 0.002
Biscuit, chocolate	< 0.010	< 0.010	< 0.010	< 0.010
Biscuit, cracker	0.010	0.020	0.020	< 0.010
Biscuits, plain sweet	< 0.010	< 0.010	< 0.010	< 0.010
Bran flake cereal, mixed	0.020	< 0.010	0.020	< 0.010
Caffeinated beverage	< 0.001	< 0.001	< 0.001	< 0.001
Carbonated drink	< 0.001	< 0.001	< 0.001	< 0.001
Cheese	< 0.010	< 0.010	< 0.010	< 0.010
Chicken	0.009	0.011	0.010	0.010
Chocolate beverage	0.001	< 0.001	< 0.001	< 0.001
Chocolate, plain milk	< 0.010	< 0.010	< 0.010	< 0.010
Coffee, instant	< 0.001	< 0.001	< 0.001	< 0.001
Confectionery	< 0.010	< 0.010	< 0.010	< 0.010
Corn, canned	< 0.002	< 0.002	< 0.002	< 0.002
Cornflakes	< 0.010	< 0.010	< 0.010	< 0.010
Dairy dessert	< 0.002	< 0.002	< 0.002	< 0.002
Fish fingers	0.873	0.727	0.485	0.790
Fish, canned	0.610	0.572	1.090	0.866
Fruit drink	< 0.001	< 0.001	< 0.001	< 0.001
Honey	< 0.010	< 0.010	< 0.010	< 0.010
Icecream	< 0.002	< 0.002	< 0.002	< 0.002
Infant & Follow on formula	< 0.001	< 0.001	< 0.001	< 0.001
Infant weaning food, cereal based	0.003	0.002	0.011	0.012
Infant weaning food, custard/fruit dish	0.043	0.005	0.009	0.011
Infant weaning food, savoury	0.025	< 0.002	0.003	0.007
Jam	< 0.010	< 0.010	< 0.010	< 0.010
Margarine	< 0.010	< 0.010	< 0.010	< 0.010
Muesli	0.010	< 0.010	0.010	< 0.010
Noodles, instant	0.003	0.005	< 0.002	< 0.002
Oats, rolled	< 0.002	0.004	< 0.002	< 0.002
Oil	< 0.010	< 0.010	0.020	< 0.010
Orange juice	< 0.001	< 0.001	< 0.001	< 0.001

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	0.003	< 0.002	< 0.002	0.003
Peaches, canned	0.002	< 0.002	< 0.002	< 0.002
Peanut butter	< 0.010	< 0.010	< 0.010	< 0.010
Peanuts, whole	< 0.010	< 0.010	< 0.010	< 0.010
Peas	< 0.002	< 0.002	< 0.002	< 0.002
Pineapple, canned	< 0.002	< 0.002	< 0.002	< 0.002
Potato crisps	< 0.010	< 0.010	< 0.010	< 0.010
Prunes	< 0.002	< 0.002	< 0.002	0.003
Raisin/sultana	0.007	0.017	0.008	0.021
Rice, white	0.101	0.039	0.031	0.050
Salad dressing	< 0.010	< 0.010	< 0.010	< 0.010
Snack bars	< 0.010	0.010	0.020	< 0.010
Snacks, flavoured	< 0.010	< 0.010	< 0.010	< 0.010
Soup, chicken	< 0.002	< 0.002	< 0.002	< 0.002
Soy milk	0.004	0.003	0.002	0.094
Spaghetti in sauce, canned	< 0.002	< 0.002	0.032	< 0.002
Sugar	< 0.010	< 0.010	< 0.010	< 0.010
Tea	< 0.001	< 0.001	< 0.001	< 0.001
Tomato sauce	< 0.002	< 0.002	< 0.002	< 0.002
Tomatoes in juice	< 0.002	< 0.002	< 0.002	< 0.002
Wheatbix	< 0.010	< 0.010	0.020	< 0.010
Wine, still red	0.010	0.006	0.004	0.004
Wine, still white	0.004	0.004	0.007	0.009
Yeast extract	0.237	0.148		
Yoghurt	< 0.002	< 0.002	< 0.002	< 0.002

Limit of detection for (total) arsenic = 0.001 mg/kg (liquids) / 0.002 mg/kg (high moisture, solid samples) / or 0.010 mg/kg (fatty or low moisture solid samples).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.2 Cadmium

**Table 4 Cadmium content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	0.0004	0.0003	0.0002	< 0.0003
Apricot, canned	0.0007	0.0007	0.0009	0.0005
Banana	0.0011	0.0033	< 0.0004	< 0.0004
Beans	0.0010	0.0014	0.0006	0.0006
Beans, baked, canned	0.0051	0.0038	0.0057	0.0049
Beer	0.0004	0.0003	0.0004	< 0.0002
Beetroot, canned	0.0102	0.0116	0.0085	0.0096
Biscuit, chocolate	0.0380	0.0460	0.0200	0.0090
Biscuit, cracker	0.0130	0.0090	0.0110	0.0100
Biscuits, plain sweet	0.0130	0.0210	0.0130	0.0060
Bran flake cereal, mixed	0.0300	0.0110	< 0.0020	0.0580
Caffeinated beverage	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Carbonated drink	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cheese	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Chicken	0.0032	< 0.0005	< 0.0005	< 0.0006
Chocolate beverage	0.0022	0.0030	0.0040	0.0010
Chocolate, plain milk	0.0290	0.0080	0.0120	0.0290
Coffee, instant	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Confectionery	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Corn, canned	0.0013	0.0009	0.0028	< 0.0004
Cornflakes	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Dairy dessert	< 0.0004	0.0017	0.0017	< 0.0004
Fish fingers	0.0056	0.0058	0.0078	0.0044
Fish, canned	0.0104	0.0101	0.0032	0.0104
Fruit drink	0.0002	0.0003	0.0002	0.0007
Honey	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Icecream	< 0.0004	< 0.0004	0.0017	< 0.0004
Infant & Follow on formula	< 0.0002	< 0.0002	0.0003	0.0007
Infant weaning food, cereal based	0.0013	0.0016	0.0006	< 0.0004
Infant weaning food, custard/fruit dish	0.0006	< 0.0004	< 0.0004	0.0013
Infant weaning food, savoury	0.0074	0.0088	0.0081	0.0034
Jam	< 0.0020	< 0.0020	0.0030	< 0.0020
Margarine	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Muesli	0.0360	0.0110	0.0250	0.0160
Noodles, instant	0.0059	0.0014	0.0054	0.0033
Oats, rolled	0.0073	0.0018	0.0030	0.0065
Oil	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Orange juice	< 0.0002	< 0.0002	< 0.0002	< 0.0002

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	0.0122	0.0267	0.0048	0.0099
Peaches, canned	0.0015	0.0037	0.0018	0.0022
Peanut butter	0.0910	0.0240	0.0310	0.0840
Peanuts, whole	0.1040	0.0830	0.0410	0.0280
Peas	0.0020	0.0031	0.0020	0.0019
Pineapple, canned	0.0152	< 0.0004	0.0008	0.0007
Potato crisps	0.1340	0.0640	0.1390	0.0400
Prunes	0.0016	0.0011	0.0032	0.0009
Raisin/sultana	0.0013	0.0009	0.0008	0.0013
Rice, white	0.0019	0.0041	0.0067	0.0023
Salad dressing	0.0050	< 0.0020	< 0.0020	< 0.0020
Snack bars	0.0100	0.0070	0.0100	0.0030
Snacks, flavoured	< 0.0020	0.0360	0.0030	0.0030
Soup, chicken	0.0005	0.0010	< 0.0005	< 0.0005
Soy milk	0.0016	0.0013	0.0018	0.0010
Spaghetti in sauce, canned	0.0096	0.0094	0.0039	0.0059
Sugar	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tea	0.0002	< 0.0002	0.0002	< 0.0002
Tomato sauce	0.0179	0.0161	0.0114	0.0103
Tomatoes in juice	0.0090	0.0111	0.0056	0.0074
Wheatbix	0.0400	0.0360	0.0070	0.0500
Wine, still red	0.0002	0.0007	0.0003	0.0006
Wine, still white	0.0006	0.0003	0.0003	0.0008
Yeast extract	0.0340	0.0120		
Yoghurt	< 0.0004	0.0005	0.0007	< 0.0004

Limit of detection for cadmium = 0.0002 mg/kg (liquid) / 0.0004 mg/kg (high moisture) / 0.0020 mg/kg (fatty or low moisture sample).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

### 4.2.3 Iodine

**Table 5 Iodine content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	0.004	0.002	0.002	0.005
Apricot, canned	0.024	0.012	0.010	0.015
Banana	0.003	< 0.002	< 0.002	< 0.002
Beans	< 0.002	0.004	< 0.002	< 0.002
Beans, baked, canned	0.018	0.021	0.013	0.014
Beer	0.007	0.005	0.046	0.002
Beetroot, canned	0.024	0.018	0.018	0.018
Biscuit, chocolate	0.070	0.050	0.173	0.030
Biscuit, cracker	< 0.010	< 0.010	0.030	< 0.010
Biscuits, plain sweet	< 0.010	< 0.010	< 0.010	0.020
Bran flake cereal, mixed	0.010	< 0.010	< 0.010	< 0.010
Caffeinated beverage	< 0.001	0.002	< 0.001	0.002
Carbonated drink	< 0.001	0.002	0.002	0.002
Cheese	0.070	0.070	0.060	0.060
Chicken	0.009	0.007	0.003	0.005
Chocolate beverage	0.031	< 0.001	0.002	0.014
Chocolate, plain milk	0.100	0.510	0.120	0.070
Coffee, instant	< 0.001	0.001	< 0.001	0.001
Confectionery	< 0.010	< 0.010	< 0.010	0.010
Corn, canned	0.008	0.005	0.009	0.012
Cornflakes	0.020	< 0.010	< 0.010	< 0.010
Dairy dessert	0.055	0.093	0.066	0.092
Fish fingers	0.040	0.045	0.029	0.025
Fish, canned	0.102	0.123	0.121	0.213
Fruit drink	< 0.001	0.002	< 0.001	< 0.001
Honey	< 0.010	< 0.010	< 0.010	< 0.010
Icecream	0.070	0.092	0.117	0.054
Infant & Follow on formula	0.062	0.047	0.109	0.085
Infant weaning food, cereal based	0.008	0.004	0.061	0.004
Infant weaning food, custard/fruit dish	0.006	0.061	0.078	0.072
Infant weaning food, savoury	0.016	< 0.002	0.025	0.015
Jam	< 0.010	< 0.010	< 0.010	< 0.010
Margarine	< 0.010	< 0.010	< 0.010	< 0.010
Muesli	0.020	< 0.010	0.020	< 0.010
Noodles, instant	0.008	0.122	0.010	0.016
Oats, rolled	< 0.002	0.005	< 0.002	< 0.002
Oil	< 0.010	< 0.010	< 0.010	< 0.010
Orange juice	0.046	< 0.001	0.003	< 0.001

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	< 0.002	< 0.002	< 0.002	0.027
Peaches, canned	0.020	0.014	0.017	0.016
Peanut butter	< 0.010	< 0.010	< 0.010	0.370
Peanuts, whole	< 0.010	< 0.010	0.020	0.030
Peas	< 0.002	< 0.002	< 0.002	0.003
Pineapple, canned	< 0.002	0.019	0.006	0.022
Potato crisps	0.030	0.010	0.020	0.020
Prunes	0.006	0.007	0.013	0.004
Raisin/sultana	0.011	< 0.002	0.025	0.019
Rice, white	0.004	< 0.002	< 0.002	0.004
Salad dressing	0.170	< 0.010	< 0.010	0.020
Snack bars	0.180	0.040	0.030	< 0.010
Snacks, flavoured	0.110	0.050	0.040	0.050
Soup, chicken	0.078	0.018	0.009	0.007
Soy milk	0.005	0.008	0.008	9.140
Spaghetti in sauce, canned	0.016	0.020	0.039	0.016
Sugar	< 0.010	< 0.010	< 0.010	< 0.010
Tea	0.001	< 0.001	< 0.001	0.001
Tomato sauce	0.017	0.008	0.021	0.023
Tomatoes in juice	0.006	0.004	0.011	0.002
Wheatbix	< 0.010	< 0.010	< 0.010	< 0.010
Wine, still red	0.012	0.013	0.012	0.014
Wine, still white	0.002	0.005	0.001	0.012
Yeast extract	0.020	0.081		
Yoghurt	0.074	0.110	0.055	0.079

Limit of detection for iodine = 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture samples) / 0.010 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.4 Iron

**Table 6 Iron content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	0.5	2.8	< 0.1	0.4
Apricot, canned	3.4	1.4	1.4	2.4
Banana	2.1	2.8	2.4	2.5
Beans	7.2	3.9	5.7	4.4
Beans, baked, canned	12.8	10.9	14.6	9.8
Beer	< 0.1	< 0.1	< 0.1	< 0.1
Beetroot, canned	2.5	2.7	2.0	4.8
Biscuit, chocolate	30.0	38.0	53.3	10.0
Biscuit, cracker	10.0	13.0	38.0	18.0
Biscuits, plain sweet	7.0	13.0	6.0	9.0
Bran flake cereal, mixed	86.0	37.0	140.0	40.0
Caffeinated beverage	< 0.1	< 0.1	< 0.1	< 0.1
Carbonated drink	< 0.1	< 0.1	< 0.1	< 0.1
Cheese	1.0	1.0	1.0	2.0
Chicken	5.6	5.6	10.7	6.2
Chocolate beverage	7.4	0.5	1.3	4.7
Chocolate, plain milk	12.0	24.0	15.0	21.0
Coffee, instant	0.7	0.4	0.5	0.3
Confectionery	< 1.0	< 1.0	< 1.0	1.0
Corn, canned	1.9	2.6	3.0	2.2
Cornflakes	134.0	58.0	101.0	6.0
Dairy dessert	0.3	2.7	3.2	0.7
Fish fingers	4.6	4.1	4.4	3.0
Fish, canned	7.1	8.9	8.3	9.7
Fruit drink	< 0.1	< 0.1	< 0.1	< 0.1
Honey	1.0	1.0	< 1.0	2.0
Icecream	0.4	0.4	0.4	0.3
Infant & Follow on formula	4.6	5.5	10.2	9.6
Infant weaning food, cereal based	4.3	65.3	0.5	129.0
Infant weaning food, custard/fruit dish	1.2	0.9	9.6	3.7
Infant weaning food, savoury	6.0	4.2	7.5	4.8
Jam	1.0	< 1.0	1.0	1.0
Margarine	< 1.0	< 1.0	< 1.0	< 1.0
Muesli	33.0	23.0	41.0	17.0
Noodles, instant	4.7	3.0	3.8	4.9
Oats, rolled	7.3	6.5	9.8	7.5
Oil	< 1.0	< 1.0	< 1.0	< 1.0
Orange juice	0.8	0.6	1.4	0.8



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	5.0	6.4	9.7	6.1
Peaches, canned	1.6	1.2	1.1	1.1
Peanut butter	15.0	15.0	16.0	14.0
Peanuts, whole	14.0	18.0	16.0	26.0
Peas	12.6	14.0	17.4	27.5
Pineapple, canned	2.0	0.9	1.5	1.2
Potato crisps	19.0	15.0	18.0	16.0
Prunes	6.9	4.8	7.1	4.3
Raisin/sultana	13.1	14.2	14.0	21.5
Rice, white	0.7	0.4	0.6	0.8
Salad dressing	6.0	< 1.0	2.0	1.0
Snack bars	17.0	11.0	8.0	37.0
Snacks, flavoured	3.0	7.0	14.0	4.0
Soup, chicken	1.5	1.1	0.5	0.6
Soy milk	4.2	2.9	3.8	3.7
Spaghetti in sauce, canned	2.7	2.8	4.0	3.6
Sugar	< 1.0	< 1.0	< 1.0	< 1.0
Tea	< 0.1	< 0.1	< 0.1	0.1
Tomato sauce	6.3	6.9	5.8	4.3
Tomatoes in juice	2.9	3.7	2.7	2.6
Wheatbix	173.0	29.0	36.0	30.0
Wine, still red	2.9	6.0	1.7	1.9
Wine, still white	1.0	3.1	1.2	1.0
Yeast extract	373.0	29.9		
Yoghurt	0.4	0.4	2.0	0.5

Limit of detection for iron = 0.1 mg/kg (liquid) / 0.2 mg/kg (high moisture solid samples) / 1.0 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.5 Lead

**Table 7      Lead content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	0.002	< 0.001	0.002	0.004
Apricot, canned	0.013	0.058	0.069	0.029
Banana	< 0.002	< 0.002	< 0.002	< 0.002
Beans	< 0.002	0.005	< 0.002	< 0.002
Beans, baked, canned	0.003	0.002	0.004	0.002
Beer	< 0.001	< 0.001	< 0.001	< 0.001
Beetroot, canned	< 0.002	< 0.002	< 0.002	< 0.002
Biscuit, chocolate	0.050	0.030	0.030	0.020
Biscuit, cracker	< 0.010	< 0.010	< 0.010	< 0.010
Biscuits, plain sweet	< 0.010	0.020	< 0.010	< 0.010
Bran flake cereal, mixed	0.010	< 0.010	< 0.010	< 0.010
Caffeinated beverage	< 0.001	< 0.001	0.001	< 0.001
Carbonated drink	< 0.001	< 0.001	< 0.001	< 0.001
Cheese	< 0.010	< 0.010	< 0.010	< 0.010
Chicken	0.004	0.005	< 0.002	< 0.003
Chocolate beverage	0.002	< 0.001	0.002	< 0.001
Chocolate, plain milk	0.015	0.010	0.010	0.027
Coffee, instant	< 0.001	< 0.001	< 0.001	< 0.001
Confectionery	0.052	< 0.010	< 0.010	< 0.010
Corn, canned	< 0.002	< 0.002	< 0.002	< 0.002
Cornflakes	< 0.010	< 0.010	< 0.010	< 0.010
Dairy dessert	< 0.002	< 0.002	< 0.002	< 0.002
Fish fingers	< 0.003	< 0.003	< 0.003	< 0.002
Fish, canned	0.005	< 0.003	< 0.002	< 0.002
Fruit drink	< 0.001	< 0.001	< 0.001	< 0.001
Honey	0.029	0.023	0.045	0.066
Icecream	< 0.002	< 0.002	< 0.002	< 0.002
Infant & Follow on formula	< 0.001	< 0.001	< 0.001	< 0.001
Infant weaning food, cereal based	0.005	0.004	< 0.002	0.008
Infant weaning food, custard/fruit dish	< 0.002	< 0.002	< 0.002	0.004
Infant weaning food, savoury	< 0.003	0.004	< 0.003	< 0.003
Jam	< 0.010	< 0.010	< 0.010	< 0.010
Margarine	< 0.010	< 0.010	< 0.010	< 0.010
Muesli	0.010	0.020	0.010	0.050
Noodles, instant	0.017	< 0.002	0.005	0.003
Oats, rolled	< 0.002	0.016	0.022	< 0.002
Oil	< 0.010	< 0.010	< 0.010	< 0.010
Orange juice	< 0.001	< 0.001	< 0.001	< 0.001

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	< 0.002	< 0.002	< 0.002	0.002
Peaches, canned	0.024	0.016	0.011	0.023
Peanut butter	< 0.010	< 0.010	< 0.010	< 0.010
Peanuts, whole	< 0.010	< 0.010	< 0.010	< 0.010
Peas	< 0.002	< 0.002	0.002	0.005
Pineapple, canned	0.009	0.017	0.011	0.027
Potato crisps	< 0.010	0.011	< 0.010	< 0.010
Prunes	0.005	< 0.002	0.071	0.020
Raisin/sultana	0.056	0.025	0.021	0.016
Rice, white	0.003	< 0.002	< 0.002	< 0.002
Salad dressing	< 0.010	< 0.010	< 0.010	< 0.010
Snack bars	< 0.010	< 0.010	< 0.010	< 0.010
Snacks, flavoured	< 0.010	0.020	< 0.010	< 0.010
Soup, chicken	< 0.003	0.004	< 0.002	< 0.002
Soy milk	< 0.001	< 0.001	0.002	0.002
Spaghetti in sauce, canned	< 0.002	< 0.002	0.006	0.004
Sugar	< 0.010	< 0.010	< 0.010	< 0.010
Tea	< 0.001	< 0.001	< 0.001	< 0.001
Tomato sauce	0.004	0.003	0.002	0.003
Tomatoes in juice	0.011	0.013	< 0.002	0.010
Wheatbix	0.040	0.030	< 0.010	0.030
Wine, still red	0.005	0.011	0.004	0.006
Wine, still white	0.021	0.020	0.017	0.015
Yeast extract	0.021	0.030		
Yoghurt	< 0.002	0.002	0.003	< 0.002

Limit of detection for lead = 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture) / or 0.010 mg/kg (fatty or low moisture samples)

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.6 Mercury (total)

**Table 8 Total mercury content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	< 0.001	< 0.001	< 0.001	< 0.001
Apricot, canned	< 0.002	< 0.002	< 0.002	< 0.002
Banana	< 0.002	< 0.002	< 0.002	< 0.002
Beans	< 0.002	< 0.002	< 0.002	< 0.002
Beans, baked, canned	< 0.002	< 0.002	< 0.002	< 0.002
Beer	< 0.001	< 0.001	< 0.001	< 0.001
Beetroot, canned	< 0.002	< 0.002	< 0.002	< 0.002
Biscuit, chocolate	NA	NA	NA	NA
Biscuit, cracker	NA	NA	NA	NA
Biscuits, plain sweet	NA	NA	NA	NA
Bran flake cereal, mixed	NA	NA	NA	NA
Caffeinated beverage	< 0.001	< 0.001	< 0.001	< 0.001
Carbonated drink	< 0.001	< 0.001	< 0.001	< 0.001
Cheese	NA	NA	NA	NA
Chicken	< 0.003	< 0.003	< 0.002	< 0.003
Chocolate beverage	< 0.001	< 0.001	< 0.001	< 0.001
Chocolate, plain milk	NA	NA	NA	NA
Coffee, instant	< 0.001	< 0.001	< 0.001	< 0.001
Confectionery	NA	NA	NA	NA
Corn, canned	< 0.002	< 0.002	< 0.002	< 0.002
Cornflakes	NA	NA	NA	NA
Dairy dessert	< 0.002	< 0.002	< 0.002	< 0.002
Fish fingers	0.138	0.109	0.057	0.123
Fish, canned	0.029	0.060	0.148	0.027
Fruit drink	< 0.001	< 0.001	< 0.001	< 0.001
Honey	NA	NA	NA	NA
Icecream	NA	NA	NA	NA
Infant & Follow on formula	<0.001	0.001	< 0.001	< 0.001
Infant weaning food, cereal based	< 0.002	< 0.002	< 0.002	< 0.002
Infant weaning food, custard/fruit dish	< 0.002	< 0.002	< 0.002	< 0.002
Infant weaning food, savoury	< 0.002	< 0.002	< 0.002	< 0.002
Jam	NA	NA	NA	NA
Margarine	NA	NA	NA	NA
Muesli	NA	NA	NA	NA
Noodles, instant	< 0.002	< 0.002	< 0.002	< 0.002
Oats, rolled	< 0.002	< 0.002	< 0.002	< 0.002
Oil	NA	NA	NA	NA
Orange juice	< 0.001	< 0.001	< 0.001	< 0.001

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	< 0.002	< 0.002	< 0.002	< 0.002
Peaches, canned	< 0.002	< 0.002	< 0.002	< 0.002
Peanut butter	NA	NA	NA	NA
Peanuts, whole	NA	NA	NA	NA
Peas	< 0.002	< 0.002	< 0.002	< 0.002
Pineapple, canned	0.004	< 0.002	< 0.002	< 0.002
Potato crisps	< 0.010	< 0.010	< 0.010	< 0.010
Prunes	< 0.002	< 0.002	< 0.002	< 0.002
Raisin/sultana	< 0.002	< 0.002	< 0.002	< 0.002
Rice, white	< 0.002	< 0.002	< 0.002	< 0.002
Salad dressing	NA	NA	NA	NA
Snack bars	NA	NA	NA	NA
Snacks, flavoured	NA	NA	NA	NA
Soup, chicken	< 0.003	< 0.003	< 0.002	< 0.002
Soy milk	< 0.001	< 0.001	< 0.001	< 0.001
Spaghetti in sauce, canned	NA	NA	NA	NA
Sugar	NA	NA	NA	NA
Tea	< 0.001	< 0.001	< 0.001	< 0.001
Tomato sauce	< 0.002	< 0.002	< 0.002	< 0.002
Tomatoes in juice	< 0.002	< 0.002	< 0.002	< 0.002
Wheatbix	NA	NA	NA	NA
Wine, still red	< 0.001	< 0.001	< 0.001	< 0.001
Wine, still white	< 0.001	< 0.001	< 0.001	< 0.001
Yeast extract	NA	NA		
Yoghurt	< 0.002	< 0.002	< 0.002	< 0.002

NA – not analysed. These cases are those in which existing information suggests there is little likelihood of the element being detected using the current analytical methodologies eg mercury in biscuits.

Limit of detection for total mercury = 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture) / 0.010 mg/kg (fatty or low moisture solid samples) / NA = not analysed (as limit of detection inadequate for low moisture samples for dietary exposure purposes).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.7 Selenium

**Table 9 Selenium content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	< 0.002	< 0.002	< 0.002	< 0.002
Apricot, canned	< 0.004	< 0.004	< 0.004	< 0.004
Banana	< 0.004	< 0.004	< 0.004	< 0.004
Beans	< 0.004	< 0.004	< 0.004	< 0.004
Beans, baked, canned	0.037	0.023	0.009	0.035
Beer	< 0.002	< 0.002	< 0.002	< 0.002
Beetroot, canned	< 0.004	< 0.004	< 0.004	< 0.004
Biscuit, chocolate	< 0.020	< 0.020	0.043	< 0.020
Biscuit, cracker	< 0.020	0.050	0.370	0.050
Biscuits, plain sweet	< 0.020	0.030	< 0.020	0.080
Bran flake cereal, mixed	0.080	0.090	0.100	0.050
Caffeinated beverage	< 0.002	< 0.002	< 0.002	< 0.002
Carbonated drink	< 0.002	< 0.002	< 0.002	< 0.002
Cheese	0.050	0.060	0.050	0.060
Chicken	0.155	0.182	0.255	0.282
Chocolate beverage	0.003	< 0.002	< 0.002	< 0.002
Chocolate, plain milk	< 0.020	0.020	< 0.020	< 0.020
Coffee, instant	< 0.002	< 0.002	< 0.002	< 0.002
Confectionery	< 0.020	< 0.020	< 0.020	< 0.020
Corn, canned	< 0.004	0.024	< 0.004	0.005
Cornflakes	< 0.020	0.030	< 0.020	< 0.020
Dairy dessert	0.009	< 0.004	0.004	0.007
Fish fingers	0.276	0.397	0.217	0.275
Fish, canned	0.446	0.451	0.501	0.573
Fruit drink	< 0.002	< 0.002	< 0.002	< 0.002
Honey	< 0.020	< 0.020	< 0.020	< 0.020
Icecream	0.007	< 0.004	< 0.004	< 0.004
Infant & Follow on formula	< 0.002	< 0.002	0.021	0.027
Infant weaning food, cereal based	< 0.004	0.007	< 0.004	< 0.004
Infant weaning food, custard/fruit dish	< 0.004	< 0.004	0.010	0.024
Infant weaning food, savoury	0.006	< 0.004	0.008	0.015
Jam	< 0.020	< 0.020	< 0.020	< 0.020
Margarine	0.000	0.000	0.000	0.000
Muesli	0.040	< 0.020	0.080	< 0.020
Noodles, instant	0.020	0.029	0.008	0.024
Oats, rolled	0.020	0.008	< 0.004	0.018
Oil	0.000	0.000	0.000	0.000
Orange juice	< 0.002	< 0.002	< 0.002	< 0.002

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	0.050	0.017	0.035	0.043
Peaches, canned	< 0.004	< 0.004	< 0.004	< 0.004
Peanut butter	0.040	0.070	0.110	0.040
Peanuts, whole	0.040	0.040	0.140	0.030
Peas	< 0.004	< 0.004	< 0.004	< 0.004
Pineapple, canned	< 0.004	< 0.004	< 0.004	< 0.004
Potato crisps	< 0.020	< 0.020	< 0.020	< 0.020
Prunes	< 0.004	< 0.004	< 0.004	< 0.004
Raisin/sultana	< 0.004	< 0.004	< 0.004	< 0.004
Rice, white	< 0.004	< 0.004	< 0.004	0.016
Salad dressing	0.000	0.000	0.000	0.000
Snack bars	< 0.020	< 0.020	< 0.020	0.020
Snacks, flavoured	0.030	< 0.020	< 0.020	0.040
Soup, chicken	0.007	< 0.004	< 0.004	< 0.004
Soy milk	0.037	0.004	0.009	0.014
Spaghetti in sauce, canned	< 0.004	< 0.004	0.032	0.013
Sugar	< 0.020	< 0.020	< 0.020	< 0.020
Tea	< 0.002	< 0.002	< 0.002	< 0.002
Tomato sauce	0.007	< 0.004	< 0.004	< 0.004
Tomatoes in juice	< 0.004	< 0.004	< 0.004	< 0.004
Wheatbix	< 0.020	< 0.020	0.100	< 0.020
Wine, still red	< 0.002	< 0.002	< 0.002	< 0.002
Wine, still white	< 0.002	< 0.002	< 0.002	< 0.002
Yeast extract	< 0.004	0.021		
Yoghurt	< 0.004	0.006	< 0.004	0.005

Limit of detection for selenium = 0.002 mg/kg (liquid) / 0.004 mg/kg (high moisture samples) / 0.020 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.2.8 Sodium

**Table 10 Sodium content (mg/kg) of foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	32	< 5	23	29
Apricot, canned	14	11	31	< 10
Banana	< 10	< 10	< 10	< 10
Beans	< 10	< 10	< 10	< 10
Beans, baked, canned	5150	4740	3630	4810
Beer	17	20	13	20
Beetroot, canned	1655	1740	368	3430
Biscuit, chocolate	1830	1680	1585	610
Biscuit, cracker	5420	3940	2410	7680
Biscuits, plain sweet	3760	6870	2970	3390
Bran flake cereal, mixed	3980	6730	1380	< 50
Caffeinated beverage	732	176	632	956
Carbonated drink	46	55	29	56
Cheese	6160	6940	6750	6690
Chicken	3600	3850	985	850
Chocolate beverage	74	< 5	15	55
Chocolate, plain milk	728	815	738	556
Coffee, instant	< 5	< 5	< 5	< 5
Confectionery	280	580	< 50	210
Corn, canned	958	1020	1160	953
Cornflakes	7000	7630	8810	5710
Dairy dessert	520	537	693	507
Fish fingers	3550	2880	5670	3150
Fish, canned	6130	3030	2180	3370
Fruit drink	251	153	335	87
Honey	< 50	< 50	60	< 50
Icecream	647	373	481	457
Infant & Follow on formula	132	98	333	220
Infant weaning food, cereal based	36	24	277	< 10
Infant weaning food, custard/fruit dish	13	184	187	106
Infant weaning food, savoury	247	360	318	339
Jam	< 50	350	< 50	60
Margarine	3990	6130	6550	5950
Muesli	230	2610	150	910
Noodles, instant	4520	2160	3610	2800
Oats, rolled	< 10	< 10	< 10	< 10
Oil	< 50	90	< 50	< 50
Orange juice	81	10	< 5	9



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	< 10	< 10	< 10	34
Peaches, canned	36	19	19	22
Peanut butter	3580	6100	3890	4190
Peanuts, whole	4400	5830	5630	72
Peas	13	14	22	< 10
Pineapple, canned	< 10	56	< 10	13
Potato crisps	4760	5450	3570	3320
Prunes	22	23	29	21
Raisin/sultana	49	78	376	112
Rice, white	< 10	< 10	< 10	< 10
Salad dressing	8220	5690	2190	6290
Snack bars	680	1620	910	2260
Snacks, flavoured	9500	13700	12800	9860
Soup, chicken	3440	3540	4990	4140
Soy milk	411	915	388	584
Spaghetti in sauce, canned	3320	4140	4790	4060
Sugar	< 50	< 50	< 50	< 50
Tea	< 5	< 5	< 5	< 5
Tomato sauce	5030	7900	7500	7250
Tomatoes in juice	183	49	1580	57
Wheatbix	3030	2950	< 50	3920
Wine, still red	61	61	47	44
Wine, still white	23	69	25	103
Yeast extract	34400	42000		
Yoghurt	404	512	379	434

Limit of detection for sodium = 5 mg/kg (liquid) / 10 mg/kg (high moisture) / 50 mg/kg (high fat or low moisture).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

### 4.3 Agricultural Compound Residues

For agricultural compounds, results are reported in four sections; multi-residue pesticides screened for but not detected (which for brevity are listed collectively on one page); each pesticide detected is reported on a per pesticide basis for all foods screened; dithiocarbamate fungicides and acid herbicides.

All agricultural compound results in the NZTDS are reported on a ‘foods as consumed’ basis. Moisture contents of the foods have been separately determined, but are not detailed in this report.

Where no results are reported/recorded in the results tables, this is because either;

- samples were not analysed for that food/analyte combination,
- results are not available at time of reporting, but will be included in a subsequent NZTDS analytical results report.

Pesticides are applied to specific foods, often under specific conditions or only at certain times. Different producers of a particular crop will not necessarily use the same pesticides to perform the same tasks. This specificity suggests that residues will only be present in specific foods, rather than as ubiquitous contaminants present in all food groups. In addition, many pesticides are known to break down rapidly in the environment. Therefore, for most pesticides in most foods, a “not detected” result is likely to represent a true zero result.

4.3.1 Multi-residue pesticides screened for but not detected in any food in Q2 of 2003/04 NZTDS

**Table 11 Multi-residue pesticides screened for but not detected in any food in Q2 of 2003/04 NZTDS**

Acephate	Dichlofenthion	Folpet	Pendimethalin
Alachlor	Dicloran	Furalaxyl	Phorate
Aldrin	Dicrotophos	Furathiocarb	Phorate sulphone
Atrazine	Dieldrin	Halxyfop-methyl	Phorate sulphoxide
Azaconazole	Difenconazole -cis	HCB	Phosalone
Azinphos methyl	Difenconazole-trans	Heptachlor	Phosmet
Benalaxyl	Diflufenican	Heptachlor endo epoxide	Phosphamidon-a
Bendiocarb	Dimethenamid	Heptachlor exo epoxide	Phosphamidon-b
Benodanyl	Dimethoate	Heptenophos	Pirimicarb
BHC - a	Dimethomorph	Hexaconazole	Prochloraz
Binapacryl	Diphenamid	Hexazinone	Prometryn
Bitertanol	Disulfoton	Indoxacarb	Propachlor
Bromacil	Endrin	Iodophenphos	Propazine
Bromophos(methyl)	Endosulfan -a	Isazophos	Propetamphos
Bromophos-ethyl	Endosulfan -b	Isofenphos	Propoxur
Bupirimate	EPN	Isoproturon	Propyzamide
Buprofezin	Epoxiconazole	Kresoxim-methyl	Prothiophos
Captan	EPTC	Lindane	Pyrazophos
Carbofuran	Esfenvalerate	Linuron	Pyriproxyfen
Chlordane, cis	Ethion	Malathion	Quizalofop-ethyl
Chlordane, trans	Etridiazole	Metalaxyl	Tebufenpyrad
Chlorfenvinphos	Etrimphos	Methacrifos	Terbacil
Chlorfluazuron	Famphur	Methidathion	Terbufos
Chloridazon	Fenarimol	Methiocarb	Terbutryn
Chlornitrofen	Fenchlorphos	Metolachlor	Terbutylazine
Chlorobenzilate	Fenoxycarb	Metribuzin	Tetrachlorvinphos
Chlorothalonil	Fenpiclonil	Mevinphos	Tetradifon
Chlorthal-dimethyl	Fenpropimorph	Monocrotophos	Thiometon
Chlozolinate	Fensulfothion	Napropamide	Tolclofos-methyl
Clomazone	Fenthion	Nitrofen	Tolyfluanid
Coumaphos	Fipronil	Nitrothal-isopropyl	Tralkoxydim
Cyanazine	Flamprop-methyl	Norflurazon	Trebumeton
Cyfluthrin	Fluazifop-butyl	Omethoate	Triademefon
DDE, 2,4'	Fluazinam	Oxadiazon	Triademenol
DDT, 2,4'	Fluometuron	Oxadixyl	Triallate
DDT, 4,4'	Flusilasole	Oxyfluorfen	Triazophos
Deltamethrin	Flutriafol	Paclobutrazol	Trifloxystrobin
Demeton-s-methyl	Fluvalinate-D	Parathion(-ethyl)	Trifluralin
Dichlobenil	Fluvalinate-DL	Penconazole	Vinclozolin

#### 4.3.2 Acetochlor

**Table 12 Acetochlor residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Orange juice	ND	ND	ND	ND
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	0.009	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for acetochlor = 0.010 mg/kg (most samples).

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

### 4.3.3 Azoxystrobin

**Table 13 Azoxystrobin residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	0.011	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	0.003	0.004	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for azoxystrobin = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.4 BHC -b

**Table 14 BHC -b residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	0.011	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for BHC -b = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.5 Bifenthrin

**Table 15 Bifenthrin residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	0.007	0.009	0.005	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	0.002
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for bifenthrin = 0.006 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.6 Bromopropylate

**Table 16 Bromopropylate residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	0.021	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for bromopropylate = 0.007 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.7 Carbaryl

**Table 17 Carbaryl residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	1.440	1.190	0.710
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	0.280	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	0.180	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	0.028	ND

ND = not detected. Limit of reporting (LOR) for carbaryl = 0.004 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.8 Chlorpropham

**Table 18 Chlorpropham residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	0.042	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for chlorpropham = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.9 Chlorpyrifos

**Table 19 Chlorpyrifos residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	0.025	0.037	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.006	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	0.005	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	0.004	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.064	0.002	ND	0.021
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for chlorpyrifos = 0.006 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.10 Chlorpyrifos-methyl

**Table 20 Chlorpyrifos-methyl residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	0.032	ND
Biscuit, cracker	ND	ND	0.319	0.039
Biscuits, plain sweet	ND	ND	ND	0.067
Bran flake cereal, mixed	0.023	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	0.028	0.117	ND
Noodles, instant	ND	0.013	ND	0.017
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	0.048	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	0.011
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	0.016	0.007	0.007	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for chlorpyrifos-methyl = 0.006 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.11 Cyhalothrin -g

**Table 21** Cyhalothrin-g residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	0.008
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for cyhalothrin-g = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.12 Cyhalothrin -I**Table 22** Cyhalothrin-I residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.011	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.010	ND	ND	0.020
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND	ND	ND
Yoghurt	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for cyhalothrin-g = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.13 Cypermethrin

**Table 23 Cypermethrin residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.165	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.200	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	0.014	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for cypermethrin = 0.030 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.14 Cyproconazole

**Table 24      Cyproconazole residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	0.014
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for cyproconazole = 0.009 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.15 Cyprodinil

**Table 25** Cyprodinil residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.015	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	0.011
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.007
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.075	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for cyprodonil = 0.003 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.16 DDD, 4,4'**Table 26** DDD, 4,4' residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	0.028	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for DDD, 4,4' = 0.003 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.17 DDD, 2,4'**Table 27** DDD, 2,4' residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	0.008	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for DDD, 2,4' = 0.003 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.18 DDE, 4,4'**Table 28 DDE, 4,4' residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	0.006	0.008	0.008	0.013
Chicken	ND	ND	0.003	0.017
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	0.004	0.003	0.015	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	0.003	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	0.002	0.019	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	0.011	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	0.002
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	0.002

ND = not detected. Limit of reporting (LOR) for DDE, 4,4' = 0.005 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.19 Diazinon**Table 29 Diazinon residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	0.021	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for diazinon = 0.010 mg/kg (most samples).  
The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.20 Dichlofluanid**Table 30** Dichlofluanid residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	0.067	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	0.143	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	0.043
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for dichlofluanid = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.21 Dichlorvos**Table 31** Dichlorvos residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	0.015	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for dichlorvos = 0.010 mg/kg (most samples).  
The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.22 Dicofol**Table 32 Dicofol residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.083
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	0.006	ND	ND	ND
Raisin/sultana	0.045	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for dicofol = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.23 Diphenylamine

**Table 33 Diphenylamine residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	0.245	ND	ND
Apricot, canned	0.003	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	0.004
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	0.003	0.003	0.003	0.003
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	0.001	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	0.003	ND	0.014
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	0.005	0.006	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	0.004	0.004
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting diphenylamine = 0.002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.24 Endosulfan-sulphate**Table 34** Endosulfan-sulphate residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	0.088	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	0.013	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	0.040	ND	ND	0.041
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for endosulfan-sulphate = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.25 Ethoxyquin

**Table 35 Ethoxyquin residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	0.003	0.013	0.002	0.042
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	0.005	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for ethoxyquin = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.26 Fenitrothion

**Table 36 Fenitrothion residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	0.353	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.066	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	0.047	ND	0.035	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	0.011	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	0.041	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	0.003
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for fenitrothion = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.27 Fenpropathrin

**Table 37 Fenpropathrin residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	0.044
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for fenpropathrin = 0.005 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.28 Fenvalerate

**Table 38 Fenvalerate residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	0.012	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	0.018
Raisin/sultana	0.043	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for fenvalerate = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.29 Fludioxinil**Table 39** Fludioxinil residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	0.008
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for fludioxinil = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.30 Iprodione

**Table 40 Iprodione residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	0.123	ND	ND
Apricot, canned	0.705	1.110	0.660	0.056
Banana	ND	0.160	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.066	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	0.016	ND	0.058
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	0.029	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.041
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	0.015	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.104	0.047	ND	0.031
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	0.026	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	0.047	0.112	0.016
Wine, still white	0.014	ND	0.020	0.019
Yeast extract	ND	ND		
Yoghurt	ND	ND	0.025	0.004

ND = not detected. Limit of reporting (LOR) for iprodione = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.31 Parathion-methyl

**Table 41 Parathion-methyl residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	0.037
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for parathion methyl = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.32 Permethrin, cis**Table 42** Permethrin, cis residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	0.002	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for permethrin, cis = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.33 Permethrin, trans**Table 43** Permethrin, trans residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	0.007	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for permethrin, trans = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.34 Piperonyl butoxide

**Table 44 Piperonyl butoxide residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	0.007	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	0.063	0.373	ND
Rice, white	0.014	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	0.013	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for piperonyl butoxide = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.35 Pirimiphos-methyl**Table 45 Pirimiphos-methyl residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	0.021	0.060	0.002	ND
Biscuit, cracker	0.087	0.031	1.285	ND
Biscuits, plain sweet	0.095	0.010	0.102	0.003
Bran flake cereal, mixed	0.030	0.008	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	0.014	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	0.048	0.014	0.045	0.053
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	0.002	0.002	0.035	0.002
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	0.001	0.032	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	0.017	0.004	ND
Peanuts, whole	ND	ND	ND	0.021
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	0.024	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	0.018	0.022	ND
Snacks, flavoured	0.002	ND	0.003	0.006
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	0.021	0.019	ND	0.007
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for pirimiphos-methyl = 0.007 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.36 Procymidone**Table 46 Procymidone residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	0.181	ND	ND	0.059
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	0.021	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.059
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	0.260	0.105	ND	0.060
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	0.009
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	0.008	0.008
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for procymidone = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.37 Propargite 1+2

**Table 47 Propargite 1+2 residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	0.020	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.016
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	0.017	0.045	0.200	ND
Raisin/sultana	0.054	ND	ND	0.187
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for propargite 1+2 = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.38 Propham**Table 48** Propham residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	0.321	0.808	0.075	0.597
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for protham = 0.010 mg/kg (most samples).  
The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.39 Propiconazole, cis

**Table 49 Propiconazole, cis residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	0.019
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	0.002
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for propiconazole, cis = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

## 4.3.40 Propiconazole, trans

**Table 50 Propiconazole, trans residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	0.027
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	0.003
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for propiconazole, trans = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.41 Pyrimethanil**Table 51** Pyrimethanil residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	0.015
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	0.330	ND	0.003
Wine, still white	ND	ND	0.047	0.146
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for pyrimethanil = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.42 Quintozene**Table 52**      **Quintozene residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	0.021
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for quitozene = 0.003 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.43 Simazine**Table 53 Simazine residues (mg/kg) in foods in Q2 of 2003/04 NZTDS**

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	0.290	ND	0.010	ND
Orange juice	ND	ND	ND	ND

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	ND	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for simazine = 0.010 mg/kg (most samples).  
The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

4.3.44 Tebuconazole**Table 54** Tebuconazole residues (mg/kg) in foods in Q2 of 2003/04 NZTDS

<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Apple-based juice	ND	ND	ND	ND
Apricot, canned	ND	ND	ND	ND
Banana	ND	ND	ND	ND
Beans	ND	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beer	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Biscuit, chocolate	ND	ND	ND	ND
Biscuit, cracker	ND	ND	ND	ND
Biscuits, plain sweet	ND	ND	ND	ND
Bran flake cereal, mixed	ND	ND	ND	ND
Caffeinated beverage	ND	ND	ND	ND
Carbonated drink	ND	ND	ND	ND
Cheese	ND	ND	ND	ND
Chicken	ND	ND	ND	ND
Chocolate beverage	ND	ND	ND	ND
Chocolate, plain milk	ND	ND	ND	ND
Coffee, instant	ND	ND	ND	ND
Confectionery	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Cornflakes	ND	ND	ND	ND
Dairy dessert	ND	ND	ND	ND
Fish fingers	ND	ND	ND	ND
Fish, canned	ND	ND	ND	ND
Fruit drink	ND	ND	ND	ND
Honey	ND	ND	ND	ND
Icecream	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Jam	ND	ND	ND	ND
Margarine	ND	ND	ND	ND
Muesli	ND	ND	ND	ND
Noodles, instant	ND	ND	ND	ND
Oats, rolled	ND	ND	ND	ND
Oil	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND



<b>Food</b>	<b>Brand 1</b>	<b>Brand 2</b>	<b>Brand 3</b>	<b>Brand 4</b>
Pasta, dried	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peanut butter	ND	ND	ND	ND
Peanuts, whole	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	ND	ND
Raisin/sultana	ND	ND	ND	ND
Rice, white	ND	ND	ND	ND
Salad dressing	ND	ND	ND	ND
Snack bars	ND	ND	ND	ND
Snacks, flavoured	ND	ND	ND	ND
Soup, chicken	ND	ND	ND	ND
Soy milk	ND	ND	ND	ND
Spaghetti in sauce, canned	ND	ND	ND	ND
Sugar	ND	ND	ND	ND
Tea	ND	ND	ND	ND
Tomato sauce	ND	ND	ND	ND
Tomatoes in juice	ND	ND	ND	ND
Wheatbix	ND	ND	ND	ND
Wine, still red	ND	ND	ND	ND
Wine, still white	ND	ND	0.006	ND
Yeast extract	ND	ND		
Yoghurt	ND	ND	ND	ND

ND = not detected. Limit of reporting (LOR) for tebuconazole = 0.010 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.45 Dithiocarbamate Fungicides

The level of dithiocarbamates in foods is generally analysed internationally in terms of the amount of carbon disulphide (CS<sub>2</sub>). The method is unable to differentiate which dithiocarbamate is present.

**Table 55 Dithiocarbamate fungicide content (mg/kg of CS<sub>2</sub>) of fruit and vegetable products in Q2 of 2003/04 NZTDS**

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	ND	0.04	ND	ND
Apricot, canned	1.27	ND	ND	0.18
Banana	ND	ND	ND	ND
Beans	0.25	ND	ND	ND
Beans, baked, canned	ND	ND	ND	ND
Beetroot, canned	ND	ND	ND	ND
Corn, canned	ND	ND	ND	ND
Infant & Follow on formula	ND	ND	ND	ND
Infant weaning food, cereal based	ND	ND	ND	ND
Infant weaning food, custard/fruit dish	ND	ND	ND	ND
Infant weaning food, savoury	ND	ND	ND	ND
Orange juice	ND	ND	ND	ND
Peaches, canned	ND	ND	ND	ND
Peas	ND	ND	ND	ND
Pineapple, canned	ND	ND	ND	ND
Potato crisps	ND	ND	ND	ND
Prunes	ND	ND	0.11	ND
Raisin/sultana	ND	0.05	ND	ND
Tomato sauce	0.01	0.01	ND	ND
Tomatoes in juice	ND	ND	ND	ND

ND = not detected. Limit of reporting = 0.01 mg/kg CS<sub>2</sub> (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brand data are not appropriate.

#### 4.3.46 Acid Herbicides

**Table 56 Acid herbicide content (mg/kg) of foods analysed in Q2 of 2003/04 NZTDS**

Food	Brand 1	Brand 2	Brand 3	Brand 4	Brand Composite
Chicken	ND	ND	ND	ND	
Infant & Follow on formula					ND
Infant weaning food, cereal based					ND
Infant weaning food, custard/fruit dish					ND
Infant weaning food, savoury					ND
Peas					ND
Soy milk	ND	ND	ND	ND	

The acid herbicides (AH) involved a separate screen which included 18 herbicides. These have been detailed in section 3.1. Selected foods, as identified above, were analysed, but no herbicides were detected.

ND = not detected. Limit of reporting = 0.02 mg/kg (most samples). The LOR does vary with different matrices.

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## **APPENDIX 1            BACKGROUND TO THE 2003/04 NEW ZEALAND TOTAL DIET SURVEY**

The primary focus of the New Zealand Total Diet Survey (NZTDS) is to assess dietary exposure to chemical residues, contaminant elements and selected nutrients, from 121 representative foods, across the average diet of different age-sex groups within the New Zealand population. As such, foods are analysed on an 'as consumed' basis.

The New Zealand Food Safety Authority (NZFSA) are the purchasers of the 2003/04 NZTDS, and have key responsibilities regarding the overall direction of it, public release of results in a timely manner and follow up actions. The NZTDS represents a powerful tool for the NZFSA's risk management activities related to the safety of the New Zealand food supply. NZFSA fund ESR to manage the survey, purchase national and regional food samples, prepare all food samples, organise and manage robust, quality analyses, and to produce interim analytical results and final interpretative NZTDS reports.

The NZFSA undertook extensive consultation with stakeholder groups and interested parties (including public health, academia and research institutes, industry sector groups, and consumer groups) on the design and content of the 2003/04 NZTDS.

The 2003/04 New Zealand Total Diet Survey (NZTDS) is the sixth such study of its kind in New Zealand. The previous five surveys have been carried out jointly by the Ministry of Health (formerly the Department of Health) and ESR (formerly DSIR Chemistry Division).

The first NZTDS was carried out in 1974 (Dick et al, 1978a,b) and involved analysis of a relatively small number of food group composites. These were based on the diet of an adolescent male, the age/sex group which consumes the largest quantity of food on a daily basis. The 1982 survey was similar, but the energy content of the diet was recalculated to give intake estimates for other age/sex groups (Pickston et al, 1985). The 1987/88 survey saw a change in survey design to an analysis of a large number of individual foods. This increased the flexibility of the survey and allowed calculation of estimated dietary intakes for a wider range of age/sex groups (ESR/MoH, 1994). The 1990/91 and 1997/98 surveys adopted a similar approach for food selection (Vannoort et al, 1995a,b; Hannah et al, 1995; Pickston and Vannoort, 1995; Cressey et al, 2000; Vannoort et al, 2000), and this is to be used as the basis for the 2003/04 survey.

The 1987/88 and 1990/91 NZTDSs considered a wide range of nutrient elements (13 nutrient elements and eleven nutrient elements plus one vitamin respectively) in addition to agricultural compounds and contaminant elements. The 1997/98 and 2003/04 NZTDSs refocused mainly onto contaminants in food, with only two nutrient elements of special interest (selenium and iodine) being considered in both, and iron and sodium being additionally assessed in the 2003/04 NZTDS. The range of agricultural compounds screened for has increased consistently with each NZTDS, to over 200 in the current survey.

The survey is conducted in accordance with the recommendations of the FAO/WHO Joint Expert Committee on Pesticide Residues and in agreement with the objectives of the Joint FAO/WHO Global Environmental Monitoring Systems (GEMS; FAO/UNEP/WHO, 1985).

### **Objectives**

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The objectives of the 2003/04 NZTDS are:

- agree in consultation with stakeholders the design and content of the 2003/04 NZTDS;
- estimate dietary exposure for selected chemical residues, contaminants and nutrient elements in the New Zealand food supply and identify trends in New Zealand over time;
- compare dietary exposure estimates with those in other countries where comparable data is available;
- ensure that the outcomes of the NZTDS complement data on chemical residues, contaminants and nutrient elements generated from other sources in New Zealand;
- where appropriate, provide data on selected chemical residues, contaminants and nutrient elements for incorporation into other databases including the World Health Organization (WHO) Global Environmental Monitoring System (GEMS) and the New Zealand Food Composition Database; and
- communicate findings in a timely and transparent manner.

## **Timetable**

Sampling will be carried out on four occasions during the 2003/04 financial year. Chemical analyses will be carried out during the 2003/04 year and the early part of the 2004/05 year. Data analysis, exposure estimates, writing of full interpretative reports will take place in the latter part of 2004/05 and be completed early in 2005/06 year. This report refers to the results of the second of the four sampling occasions (Q2).

## **Foods**

Foods to be analysed have been divided into two categories:

National Foods (63) - are not expected to exhibit any regional variability and include processed foods such as biscuits, breakfast cereals and beverages, which are uniformly available New Zealand wide. National Foods will be sampled in a single location (Christchurch) on two occasions. Up to four brands, selected on the basis of market share, will be collected on each sampling occasion. Foods will almost all be prepared and analysed on the basis of individual brands/seasons to give a total of four analyses for each food for each season, although occasionally seasonal composites of the four brands to give one analysis for each food.

Regional Foods (58) - may be expected to demonstrate variation in agricultural compound, contaminant and nutrient level depending on the location in which the food was produced. Regional foods include meat, fruit and vegetables. Regional foods will be sampled in each of four locations (Auckland, Napier, Christchurch and Dunedin) on two occasions. Foods will almost all be prepared and analysed on the basis of individual regions/seasons to give a total

of four analyses for each food for each season, although occasionally seasonal composites of the four regions to give one analysis for each food each season.

Foods sampled in the second quarter (Q2) were national foods. The full food list for the 2003/04 NZTDS is given in Appendix 2.

## **Analyses**

Analyses have been carried out by the following organisations:

Agricultural compounds – Agriquality NZ Ltd, Gracefield, Lower Hutt  
Elements and Moisture - R J Hill Laboratories, Hamilton

## **Operation of the Survey**

- A detailed food list for the 2003/04 NZTDS was developed for the New Zealand Food Safety Authority (Brinsdon, 2002).
- A detailed procedures manual, covering purchasing of foods and preparation of foods to the point of dispatch to the analytical facilities, was prepared by ESR during June 2003 (Vannoort, 2003a).
- Sampling of regional and national foods were carried out by Health Protection Officers under the direction of a designated ESR contact officer.
- Sample preparation was carried out by the ESR Food Safety group, Christchurch Science Centre.
- Funding for the survey is provided by the New Zealand Food Safety Authority.

## **Co-ordination and Management of the Survey**

The survey is managed and co-ordinated by ESR in consultation with the New Zealand Food Safety Authority.

## **Reporting**

Four analytical results reports are being generated at the conclusion of analyses each quarter, detailing the concentrations of agricultural compounds, contaminants and nutrients found in foods sampled during that quarter. This is the second of these quarterly reports. The first was produced in November 2003 (Vannoort, 2003b).

Two internally and externally peer-reviewed interpretative reports will be produced at the conclusion of the project (target date October 2005), commenting on concentration data and estimated dietary intakes, and making comparisons to internationally accepted health standards and comparable overseas studies.

## APPENDIX 2 FOOD LIST AND ASSOCIATED ANALYSES IN THE 2003/04 NZTDS

The foods of the 2003/04 NZTDS are listed in the table below in alphabetical order. Foods which are actually new to the food list for the 2003/04 NZTDS are identified in the first column. These were either not included in the food list for the 1997/98 NZTDS, or have replaced foods included in the 1997/98 NZTDS food list. The food 'type' column identifies the NZTDS foods as either national (N) or regional (R) foods (see Appendix 1 for an explanation of these terms). Only national foods were analysed in Q2. The remainder of the table consolidates information about which foods were analysed for which analytes in the 2003/04 NZTDS. The other abbreviations used in the table are as follows:- MR = Multi residue pesticide screen; DTC = dithiocarbamate fungicide screen; AH = Acid Herbicides screen; Elements (six) = arsenic, cadmium, iodine, iron, lead and sodium; IC = samples analysed as Individual Composites for brand/region; SC = samples analysed as Seasonal Composites; and NA = food not analysed for this analyte.

The NZFSA and ESR agreed the following criteria be used to decide if a food was analysed in the 2003/04 NZTDS for certain analytes, and whether these were analysed as an individual regional / brand composite (IC) per season; or as a seasonal composite (SC)

- High contributor to exposure ex WHO GEMS
- High contributor to exposure ex 97/98 NZTDS;
- high concentration in 97/98 NZTDS;
- Limit of detection (LOD) in respective matrices
- Key food(s) /food groups covered for new analytes (ie AH)
- Available budget, recognising differential costs for agricultural compounds, elements and moisture
- Increase individual analyses from 97/8 NZTDS to 2003/04;

New Food in 03/ 04 NZTDS	Food	Type	MR	DTC	AH	Elements (six)	Mer-cury	Selen-ium
	Apple-based juice	N	IC	IC	NA	IC	IC	IC
	Apples	R	IC	IC	SC	IC	IC	IC
	Apricots, canned	N	IC	IC	NA	IC	IC	IC
*	Avocado	R	IC	IC	NA	IC	IC	IC
	Bacon	R	IC	NA	IC	IC	IC	IC
	Bananas	N	IC	IC	NA	IC	IC	IC
	Beans	N	IC	IC	NA	IC	IC	IC
	Beans, baked, canned	N	IC	IC	NA	IC	IC	IC
*	Beef, corned	R	IC	NA	NA	IC	IC	IC
	Beef, mince	R	IC	NA	IC	IC	IC	IC
	Beef, rump	R	IC	NA	NA	IC	IC	IC
	Beer	N	IC	NA	NA	IC	IC	IC
	Beetroot, canned	N	IC	IC	NA	IC	IC	IC
	Biscuits, chocolate	N	IC	NA	NA	IC	NA	IC
	Biscuits, cracker	N	IC	NA	NA	IC	NA	IC
	Biscuits, plain sweet	N	IC	NA	NA	IC	NA	IC
	Bran flake cereal, mixed	N	IC	NA	NA	IC	NA	IC
	Bread, mixed grain, sliced	R	IC	NA	SC	IC	NA	IC
	Bread, wheatmeal, sliced	R	IC	NA	NA	IC	NA	IC
	Bread, white, sliced	R	IC	NA	NA	IC	NA	IC



<b>New Food in 03/ 04 NZTDS</b>	<b>Food</b>	<b>Type</b>	<b>MR</b>	<b>DTC</b>	<b>AH</b>	<b>Elements (six)</b>	<b>Mer- cury</b>	<b>Selen- ium</b>
	Broccoli/Cauliflower	R	IC	IC	NA	IC	IC	IC
	Butter	N	IC	NA	NA	IC	NA	IC
	Cabbage	R	IC	IC	NA	IC	IC	IC
*	Caffeinated beverage	N	IC	NA	NA	IC	IC	IC
	Cake, plain	R	IC	NA	NA	IC	NA	IC
	Capsicum	R	IC	IC	NA	IC	IC	IC
	Carbonated drink	N	IC	NA	NA	IC	IC	IC
	Carrots	R	IC	IC	NA	IC	IC	IC
	Celery	R	IC	IC	NA	IC	IC	IC
	Cheese	N	IC	NA	NA	IC	NA	IC
	Chicken	N	IC	NA	IC	IC	IC	IC
	Chicken takeaway	R	IC	NA	NA	IC	IC	IC
	Chinese dish	R	IC	NA	NA	IC	IC	IC
	Chocolate beverage	N	IC	NA	NA	IC	IC	IC
	Chocolate, plain milk	N	IC	NA	NA	IC	NA	IC
	Coffee instant	N	IC	NA	NA	IC	IC	IC
*	Coffee, beans/ground	R	IC	NA	NA	IC	IC	IC
	Confectionery	N	IC	NA	NA	IC	NA	IC
	Corn, canned	N	IC	IC	NA	IC	IC	IC
	Cornflakes	N	IC	NA	NA	IC	NA	IC
	Courgette	R	IC	IC	NA	IC	IC	IC
*	Cream	R	IC	NA	NA	IC	NA	IC
	Cucumber	R	IC	IC	NA	IC	IC	IC
	Dairy dessert	N	IC	NA	NA	IC	IC	IC
	Egg	R	IC	NA	IC	IC	IC	IC
	Fish fingers	N	IC	NA	NA	IC	IC	IC
	Fish in batter	R	IC	NA	NA	IC	IC	IC
	Fish, canned	N	IC	NA	NA	IC	IC	IC
	Fish, fresh	R	IC	NA	NA	IC	IC	IC
	Fruit drink	N	IC	NA	NA	IC	IC	IC
*	Grapes	R	IC	IC	NA	IC	IC	IC
*	Ham	R	IC	NA	NA	IC	IC	IC
	Hamburger, plain	R	IC	NA	NA	IC	IC	IC
	Honey	N	IC	NA	NA	IC	NA	IC
	Ice cream	N	IC	NA	NA	IC	NA	IC
*	Infant and follow-on formula	N	IC	IC	SC	IC	IC	IC
*	Infant weaning food, cereal based	N	IC	IC	SC	IC	IC	IC
*	Infant weaning food, custard, fruit	N	IC	IC	SC	IC	IC	IC
*	Infant weaning food, savoury meat/veg	N	IC	IC	SC	IC	IC	IC
	Jam	N	IC	NA	NA	IC	NA	IC
	Kiwifruit	R	IC	IC	NA	IC	IC	IC
	Kumara	R	IC	IC	NA	IC	IC	IC
	Lamb/mutton	R	IC	NA	IC	IC	IC	IC
	Lamb's liver	R	IC	NA	NA	IC	IC	IC
	Lettuce	R	IC	IC	NA	IC	IC	IC

<b>New Food in 03/ 04 NZTDS</b>	<b>Food</b>	<b>Type</b>	<b>MR</b>	<b>DTC</b>	<b>AH</b>	<b>Elements (six)</b>	<b>Mer- cury</b>	<b>Selen- ium</b>
	Margarine	N	IC	NA	NA	IC	NA	NA
	Meat pie	R	IC	NA	NA	IC	IC	IC
*	Melon	R	IC	IC	NA	IC	IC	IC
	Milk, 0.5% fat (Trim)	R	IC	NA	NA	IC	IC	IC
	Milk, 3.25% fat	R	IC	NA	SC	IC	IC	IC
*	Milk, flavoured	R	IC	NA	NA	IC	IC	IC
	Muesli	N	IC	NA	NA	IC	NA	IC
*	Muffin	R	IC	NA	NA	IC	NA	IC
	Mushrooms	R	IC	IC	NA	IC	IC	IC
	Mussels	R	IC	NA	NA	IC	IC	IC
	Nectarines	R	IC	IC	NA	IC	IC	IC
	Noodles, instant	N	IC	NA	NA	IC	NA	IC
	Oats, rolled	N	IC	NA	NA	IC	NA	IC
	Oil	N	IC	NA	NA	IC	NA	NA
	Onions	R	IC	IC	NA	IC	IC	IC
	Orange juice	N	IC	IC	NA	IC	IC	IC
	Oranges	R	IC	IC	NA	IC	IC	IC
	Oysters	R	IC	NA	NA	IC	IC	IC
	Pasta, dried	N	IC	NA	NA	IC	NA	IC
	Peaches, canned	N	IC	IC	NA	IC	IC	IC
	Peanut butter	N	IC	NA	NA	IC	NA	IC
	Peanuts, whole	N	IC	NA	NA	IC	NA	IC
	Pears	R	IC	IC	NA	IC	IC	IC
	Peas	N	IC	IC	SC	IC	IC	IC
	Pineapple, canned	N	IC	IC	NA	IC	IC	IC
	Pizza	R	IC	NA	NA	IC	IC	IC
	Pork chop	R	IC	NA	NA	IC	IC	IC
	Potato crisps	N	IC	IC	NA	IC	IC	IC
	Potato, hot chips	R	IC	NA	NA	IC	IC	IC
	Potatoes with skin	R	IC	IC	NA	IC	IC	IC
	Potatoes, peeled	R	IC	IC	SC	IC	IC	IC
*	Prunes	N	IC	IC	NA	IC	IC	IC
	Pumpkin	R	IC	IC	NA	IC	IC	IC
	Raisins/Sultanas	N	IC	IC	NA	IC	IC	IC
	Rice, white	N	IC	NA	NA	IC	NA	IC
*	Salad dressing	N	IC	NA	NA	IC	NA	NA
	Sausages	R	IC	NA	NA	IC	IC	IC
	Silverbeet	R	IC	IC	NA	IC	IC	IC
*	Snack bars	N	IC	NA	NA	IC	IC	IC
	Snacks, flavoured	N	IC	NA	NA	IC	NA	IC
	Soup, chicken	N	IC	NA	NA	IC	IC	IC
	Soya milk	N	IC	NA	IC	IC	IC	IC
	Spaghetti in sauce, canned	N	IC	NA	NA	IC	NA	IC
*	Strawberries	R	IC	IC	SC	IC	IC	IC
*	Sugar	N	IC	NA	NA	IC	NA	IC
*	Taro	R	IC	IC	NA	IC	IC	IC

<b>New Food in 03/ 04 NZTDS</b>	<b>Food</b>	<b>Type</b>	<b>MR</b>	<b>DTC</b>	<b>AH</b>	<b>Elements (six)</b>	<b>Mer- cury</b>	<b>Selen- ium</b>
	Tea	N	IC	NA	NA	IC	IC	IC
	Tomato	R	IC	IC	SC	IC	IC	IC
	Tomato sauce	N	IC	IC	NA	IC	IC	IC
	Tomatoes in juice	N	IC	IC	NA	IC	IC	IC
	Water	R	IC	NA	IC	IC	IC	IC
	Wheatbix	N	IC	NA	NA	IC	NA	IC
	Wine, still red	N	IC	NA	NA	IC	IC	IC
	Wine, still white	N	IC	NA	NA	IC	IC	IC
	Yeast extract	N	IC	NA	NA	IC	NA	IC
	Yoghurt	N	IC	NA	NA	IC	NA	IC

R = regional food

N = national food

MR = Multi residue pesticides

DTC = dithiocarbamate fungicides

AH = Acid Herbicides screen

Elements (six) = arsenic, cadmium, iodine, iron, lead and sodium

IC = analysed Individual Composites for brand/region

SC = analysed as Seasonal Composites

NA = food not analysed for this analyte

## **APPENDIX 3            ANALYTICAL QUALITY CONTROL PROCEDURES**

Trace analyses of a wide range of complex analytes in a variety of complex matrices is an exacting science. For this reason, it is essential to have quality control steps in place to ensure confidence in the methodology and robustness of the results. For this reason the following quality control requirements have been built into the project.

### **Data quality**

All manipulations of spreadsheets and data have checks built in based on ESR database quality management systems. Data are also checked for sense and order of magnitude. All quality control data are assessed and validated before release. Unsatisfactory quality control (QC) data require an explanation from the laboratory and where necessary, reanalyses at their expense.

Quality control (QC) data include:

### **Blanks**

Blanks are required in batches to ensure carryover between samples is not occurring and to minimise the risk of false positives.

### **Duplicates**

Duplicates of samples are performed on a selection of samples in each batch to ascertain analytical precision. Coefficients of variation (CV = standard deviation of results divided by mean x 100%) of less than 10% are considered very good but may be acceptable at significantly greater than this, depending on the matrix, analyte and concentration.

### **Certified Reference Materials (CRMs)**

International Certified Reference Materials (CRMs) for a range of different matrices for the analytes in question at a variety of concentrations are also included in each batch to ascertain the accuracy of method. CRMs are samples that have been measured by a range of international laboratories using independent but established methodologies. From these results, justifiable outliers are excluded and a certified range of results for the CRM established. The laboratory should obtain a result within 70 - 125% of the certified value, depending on the analyte and concentration. It should be noted that the number of international CRMs is quite limited as it would represent an enormous amount of work internationally to have all matrices covered for all analytes at a multiplicity of concentrations by numerous international laboratories. For this reason some degree of compromise is often necessary, possibly the analyte concentration being significantly higher or lower in the CRM than in the sample, or the matrix may be different although the concentration the same. The situation also arises where many of the analytes (such as some agricultural compounds, vitamins) are unstable to light, air and/or heat, and so CRMs are not internationally available.

### **Spike recovery**

Where CRMs are not available the laboratories were required to spike the analyte into a selection of samples. The amount of analyte measured in the spiked sample minus the amount in the unspiked sample divided by the amount of analyte spiked into the sample times 100 represents the recovery of analyte in that matrix at that concentration. Acceptable recoveries for trace analyses would generally be 70 - 125%. If outside this window, the results would need to be assessed on a case by case basis.

### **In-house control samples**

Where practicable for the analytes in question, the laboratories were also requested to run an in-house control sample. This is run through all batches and represents a check on method precision and accuracy from day to day and analyst to analyst.

### **Blind duplicates**

Although ESR are confident that each analytical laboratory has appropriate built-in quality assurance procedures, ESR also believe it is necessary to build into this project provision of repeat samples which are submitted to the analytical laboratory as 'blind' duplicates. That is, the analyst will not be aware that the samples are duplicates. Results obtained provide an independent and external check on the quality of the data generated.